

GROUNDWATER QUALITY DATA FOR OKLAHOMA: 1986 - 1988



Groundwater Division
OKLAHOMA WATER RESOURCES BOARD

GROUNDWATER QUALITY DATA
FOR OKLAHOMA: 1986-1988

Technical Report
89-2

GROUNDWATER DIVISION

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**GROUNDWATER QUALITY DATA
FOR OKLAHOMA 1986-1988**

EXECUTIVE SUMMARY

The Oklahoma Water Resources Board (OWRB) maintains a groundwater quality network in each of the major groundwater basins in Oklahoma. The purpose of this network is to monitor the ambient groundwater quality of each basin. The water quality data obtained from this network may be used in developing groundwater standards and management policies.

Water wells included in the monitoring network were selected on the basis of having a completed well log describing well construction and lithologies of the subsurface.

Water samples were collected using Environmental Protection Agency recommended procedures. All samples were preserved and transported to the Oklahoma State Department of Health Environmental Laboratory for analysis.

INTRODUCTION

The overall goal of the OWRB's groundwater quality monitoring program is to define the time and space variations of groundwater quality in the principal aquifers of the state. Samples were collected by trained OWRB staff using procedures developed in conjunction with the United States Geological Survey (U.S.G.S.) and the United States Environmental Protection Agency (U.S. EPA). The OWRB groundwater quality monitoring program supplements and is coordinated with groundwater quality work carried out by other governmental agencies.

The original network was designed to sample all of the major aquifers of the state to determine ambient water quality for each. The wells were selected on the basis of the aquifer in which they are completed (Figures 1 and 2), as well as having complete well logs referencing their construction. As such, the network provided a significant yardstick by which to judge any changes in groundwater quality and to establish baseline quality limits for each aquifer.

Four hundred ninety three groundwater samples were collected over a period of three years by the OWRB and analyzed for a variety of chemical parameters by the Oklahoma State Department of Health Environmental Laboratory.

The purpose of this publication is to describe sampling and preservation methods and to list specific values for selected parameters in wells producing water from the State's 21 major groundwater

aquifers. The parameter values published represent only the values of that specific well at the zone of perforation listed. These values are not appropriate for assessment of general water quality at any other location.

This publication may show values which exceed the drinking water standards established by the Oklahoma State Department of Health for some parameters. The violation of these standards is in itself, not necessarily an indication of man-made pollution. There are some aquifers that have high parameter values from purely natural sources. This is the total data from wells in the sampled years 1986 through 1988 and has not been modified in any way.

GROUNDWATER SAMPLING AND PRESERVATION METHODS

The sampling protocol used by the Groundwater Division in all groundwater collection follows the U.S. EPA publication Practical Guide for Groundwater Sampling, EPA/600/2-85/104, September, 1985.

Well inspection occurred upon arrival at each well. The condition of the surface seal, exposed casing, pump and sampling port were examined to determine if these components were in such condition as to adversely affect the groundwater samples. Any obstructions (weeds) were cleared and potential groundwater contamination sources were recorded on the log sheet for that well. Meters used to measure pH and specific conductance were calibrated and three sample bottles were labeled and prepared for use.

Sufficient well purging was determined by observation of pH, temperature, specific conductance and a volumetric calculation of the well bore. As the groundwater was pumped from the well bore to the surface, changes occurred in pH, temperature, and specific conductance. When all parameters stabilize, it is assumed that the stagnant water from the casing has been purged and the subsequent water sample is from the aquifer. The time required to adequately purge the well is related to a volumetric calculation of the well bore. Static water levels were obtained and the total depth and casing size of a well were referenced on that well's log. A rough estimate of the discharge was made (by bucket, barrel, flowmeter, etc.) using the following chart. Generally three to five casing volumes were purged (Table 1).

Table 1: Volume of Water in Casing*

<u>Diameter of Casing or Hole (in)</u>	<u>Gallons per foot of depth</u>
4	0.653
6	1.469
8	2.611
12	5.875
14	8.000
16	10.44
36	52.88

*from Driscoll, F.G., 1985, "Groundwater and Wells,"
Johnson Division, St. Paul, Minnesota, p. 947.

When the pH, temperature, and specific conductance were constant for a few minutes and the technician was confident that at least three bore volumes had been purged, grab samples were collected. Each bottle was held beneath the flow, filled halfway, shaken for a few seconds, emptied and refilled. Sample bottles were marked in the following manner:

<u>QUANTITY</u>	<u>PRESERVATIVE</u>	<u>ANALYSIS</u>	<u>PEN COLOR CODE</u>
½ Liter	H ₂ SO ₄	Nutrients	Green
½ Liter	Ice	Chemical Quality	Blue
1 Liter	HNO ₃	Metals	Black

For a well where analyses of chemical quality, nutrient and metals were needed, samples were collected in three bottles as indicated. Samples for metal analysis were placed in the one-liter bottle and preserved with HNO_3 to a pH of 2. Samples collected for analysis of nutrients requires acidification with H_2SO_4 to a pH of 2.

Preservation of metals water sample is achieved by the addition of 7.0 ml of reagent-grade concentrated nitric acid to one-liter sample bottle. Nutrients water sample are preserved by the addition of 3.5 ml of reagent-grade concentrated sulfuric acid to a one-half liter sample bottle. A second one-half liter sample bottle is filled with a water sample and placed in ice (as are the two acidified samples) for later analysis of other chemical parameters (Table 2).

TABLE 2: Sample Containers, Preservation Method and Holding Time.

<u>PARAMETER</u>	<u>CONTAINER</u> ¹	<u>PRESERVATIVE</u> ²	<u>MAXIMUM HOLDING TIME</u> ³
Temperature	None	None Required	Measure On-site
Chloride	P	Cool to 4° C	28 Days
pH	None	None Required	Measure On-site
Specific conductance	None	None Required	Measure On-site
Sulfate	P	Cool to 4° C	28 Days
Metals	P	HNO_3	6 Months
Nutrients	P	H_2SO_4	28 Days

Notes: (1) Polyethylene (P); (2) Sample preservation is performed immediately upon sample collection; (3) Collected samples are transported directly by OWRB personnel to the State Environmental Laboratory. Samples are stored in a secure receiving area until all analyses are performed and results verified.

The majority of wells chosen for this groundwater quality network have dedicated pumps making the use of bailers or other methods of water withdrawal unnecessary.

On-site measurements of pH, temperature, and specific conductance were made immediately after the laboratory samples were secured. A representative sample of the water was divided into two portions for pH and specific conductance measurements. Temperature measurements of the water

sample were also collected. All results were read and recorded on the individual well site sheet. The water sample analysis sheet was also completed at this time.

Field blanks were used to verify that the sample collection and handling processes have not resulted in cross contamination. Field blanks were distilled/deionized water contained in sampling bottles. Field blanks were used once a week on aquifer well group. The blanks were analyzed for different parameters each week so that all analytical parameters for a particular group of wells would have a field blank tested. All field blanks were preserved like actual samples and shipped with groundwater samples in the ice chests.

Samples were stored and transported by OWRB as soon as possible after sampling. All samples were placed in ice chests filled with ice and placed in a secure space in an OWRB truck for transport to the Oklahoma State Department of Health Environmental Laboratory.

All information and data pertinent to the sampled well were retained on an individual well site sheet. Recorded information included: well number, date, water level, well evacuation procedure and rate of recharge, sample methods, pH and conductivity readings, any unusual conditions (odor or color of water, well damage, etc.), time of collection, time of preservation, names of samplers and information regarding blanks.

Replicate samples were collected at every tenth well. The replicate sample was collected immediately following the regular sample and was assigned a separate sample sheet and number. Replicate samples further insure the integrity of the groundwater sampling network and the laboratory.

REFERENCES

- Oklahoma State Health Department. 1987. State Environmental Laboratory Services Quality Assurance Project Plan.
- Oklahoma Statutes Annotated. 1987. Title 82 - Waters and Water Rights. Section 926 3.8(c).
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- U.S. Environmental Protection Agency. 1972. Laboratory Quality Control Manual. 2nd Edition. Region VI, Surveillance and Analysis Division, Ada, Oklahoma.
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- U.S. Environmental Protection Agency. 1983. Addendum to Handbook for Sampling and Sample Preservation. EPA-600/4-82-039. Environmental Monitoring and Support Laboratory. Cincinnati.
- U.S. Environmental Protection Agency. 1985. Practical Guide for Ground Water Sampling. EPA/600/2-85/104. Robert S. Kerr Research Laboratory, Ada, Oklahoma.

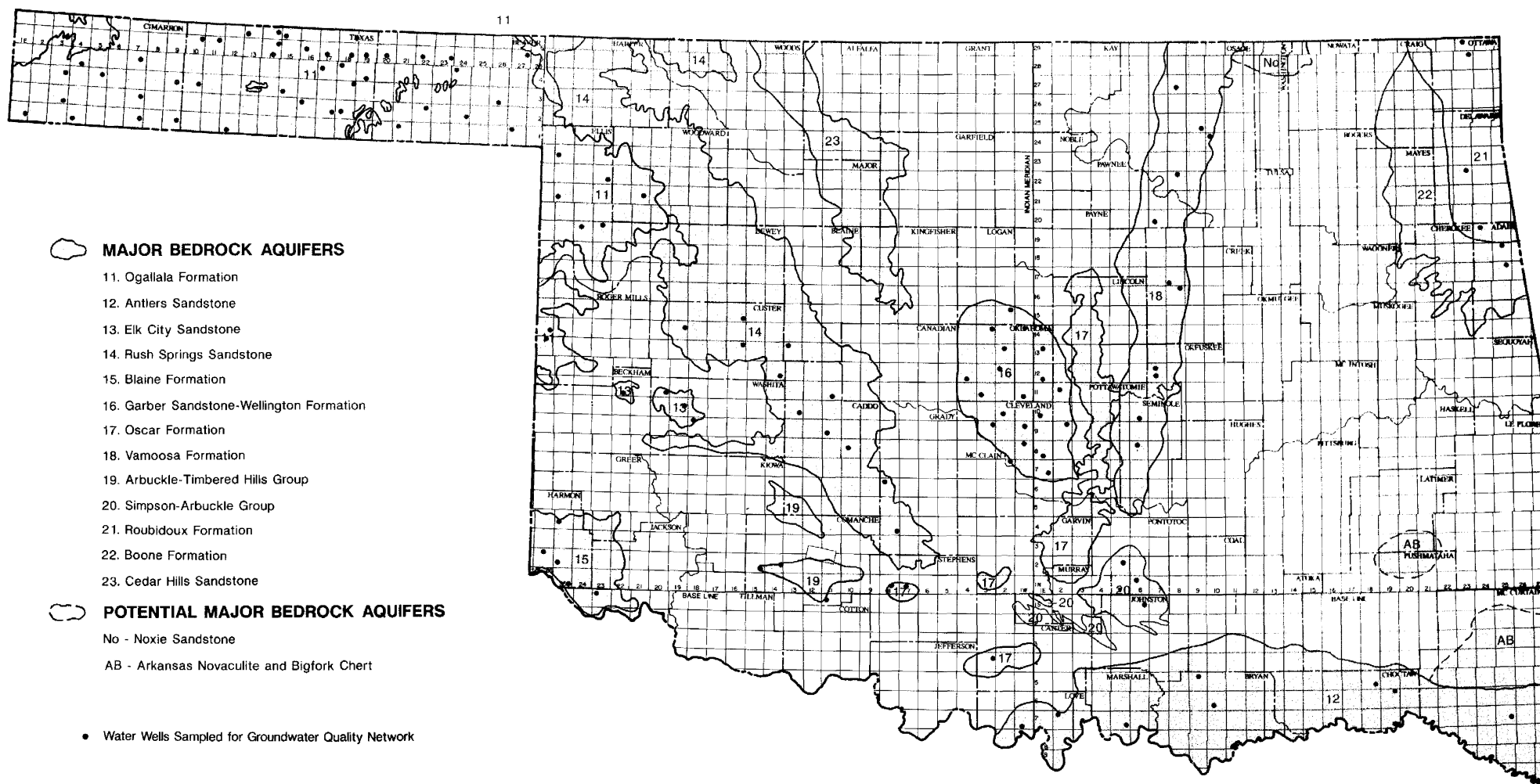


Figure 1. Annual Groundwater Quality Sampling Network, Bedrock Aquifers 1986 - 1988

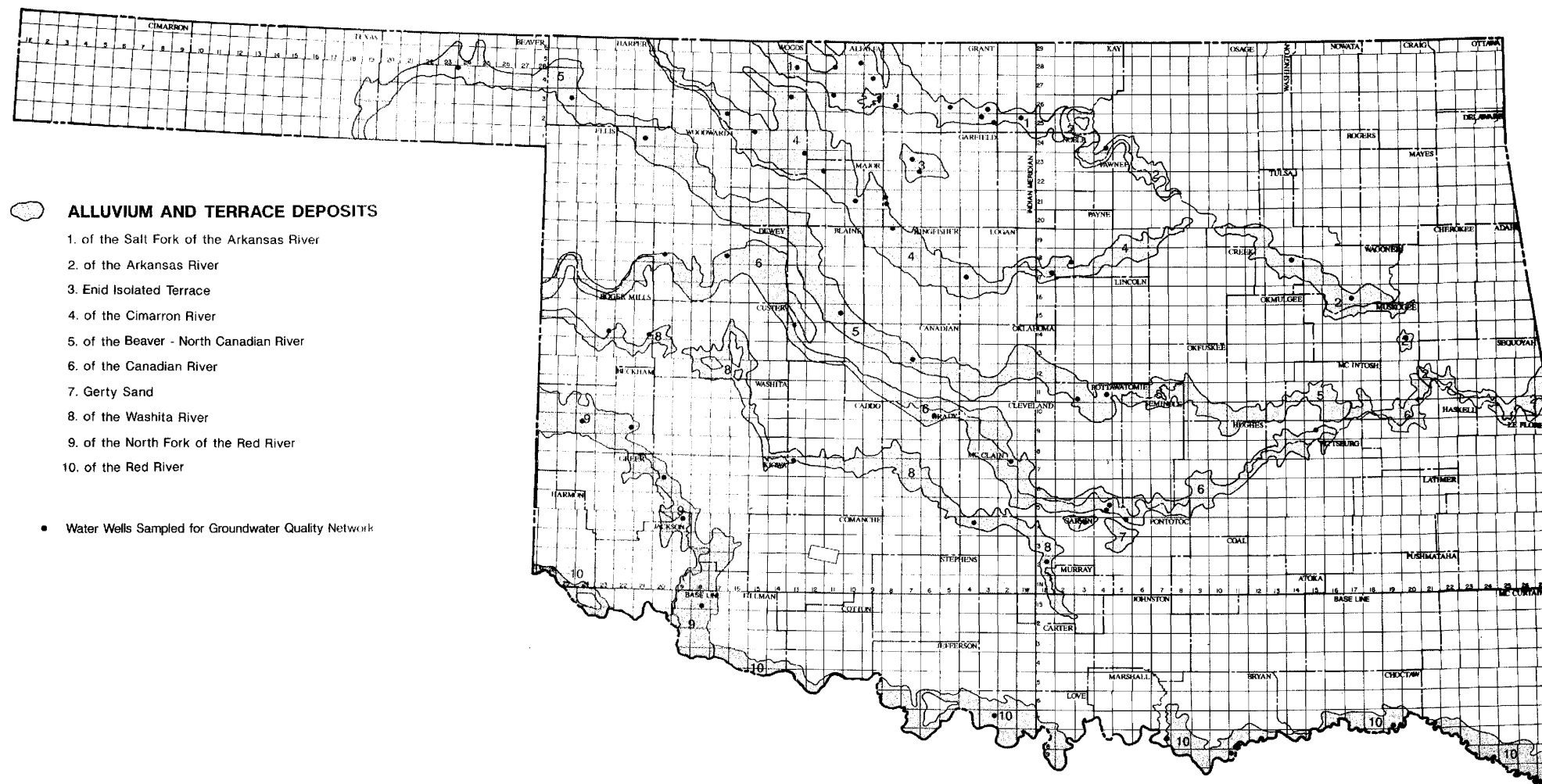


Figure 2. Annual Groundwater Quality Sampling Network, Alluvium and Terrace Aquifers 1986 - 1988

DATA TABLES

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/25	1516	146-1516	175 UMHOS/CM	107 MG/L	79 MG/L	7.1 STD UNIT
87/07/25	1516	146-1516	1200 UMHOS/CM	621 MG/L	60 MG/L	7.4 STD UNIT
88/07/12	1516	146-1516	1275 UMHOS/CM	761 MG/L	37 MG/L	7.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/25	55.0 MG/L	10 UG/L	76 UG/L	5 UG/L	24 MG/L	13 MG/L
87/07/25	330.0 MG/L	10 UG/L	15 UG/L	5 UG/L	17 MG/L	167 MG/L
88/07/12	320.0 MG/L	10 UG/L	40 UG/L	5 UG/L	11 MG/L	218 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/25	10 UG/L	30 UG/L	0.13 MG/L	4359 UG/L	45 UG/L	1 MG/L
87/07/25	10 UG/L	10 UG/L	3.00 MG/L	187 UG/L	45 UG/L	2 MG/L
88/07/12	10 UG/L	10 UG/L	4.30 MG/L	889 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/25	31 UG/L	1.8 MG/L	5 UG/L	10 MG/L	20 MG/L	56 UG/L
87/07/25	51 UG/L	0.5 MG/L	5 UG/L	199 MG/L	20 MG/L	990 UG/L
88/07/12	10 UG/L	0.5 MG/L	5 UG/L	270 MG/L	20 MG/L	785 UG/L

ROUBIDOUX FORMATION

AQUIFER-WELL NO.
21-003008

LEGAL DESCRIPTION
SW SW NE 02 17N 25E1M

COUNTY
ADAIR

10

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/23	680	104-680	900 UMHOS/CM	686 MG/L	122 MG/L	6.7 STD UNIT
88/07/12	680	104-680	810 UMHOS/CM	343 MG/L	189 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/23	390.0 MG/L	10 UG/L	18 UG/L	5 UG/L	43 MG/L	77 MG/L
88/07/12	323.0 MG/L	10 UG/L	31 UG/L	5 UG/L	70 MG/L	26 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/23	10 UG/L	10 UG/L	2.65 MG/L	355 UG/L	45 UG/L	2 MG/L
88/07/12	10 UG/L	31 UG/L	0.61 MG/L	230 UG/L	45 UG/L	2 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/23	10 UG/L	0.5 MG/L	5 UG/L	124 MG/L	20 MG/L	1162 UG/L
88/07/12	10 UG/L	0.5 MG/L	5 UG/L	61 MG/L	20 MG/L	887 UG/L

ROUBIDOUX FORMATION

AQUIFER-WELL NO.
21-003011

LEGAL DESCRIPTION
SW SE SW 09 18N 25E1M

COUNTY
ADAIR

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/09	27	17-27	125 UMHOS/CM	188 MG/L	93 MG/L	7.8 STD UNIT
87/08/20	27	17-27	175 UMHOS/CM	208 MG/L	102 MG/L	7.8 STD UNIT
88/07/19	27	17-27	175 UMHOS/CM	193 MG/L	107 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/09	58.0 MG/L	10 UG/L	137 UG/L	5 UG/L	24 MG/L	11 MG/L
87/08/20	77.0 MG/L	10 UG/L	163 UG/L	5 UG/L	28 MG/L	12 MG/L
88/07/19	38.0 MG/L	10 UG/L	143 UG/L	5 UG/L	25 MG/L	14 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/09	10 UG/L	10 UG/L	0.13 MG/L	31 UG/L	45 UG/L	6 MG/L
87/08/20	10 UG/L	10 UG/L	0.13 MG/L	86 UG/L	45 UG/L	7 MG/L
88/07/19	10 UG/L	10 UG/L	0.14 MG/L	261 UG/L	45 UG/L	6 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/09	10 UG/L	9.9 MG/L	5 UG/L	14 MG/L	20 MG/L	5 UG/L
87/08/20	10 UG/L	8.7 MG/L	5 UG/L	14 MG/L	20 MG/L	66 UG/L
88/07/19	10 UG/L	11.1 MG/L	5 UG/L	15 MG/L	20 MG/L	14 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
01-003030

LEGAL DESCRIPTION
NE NE NE 11 26N 09W1M

COUNTY
ALFALFA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/08	45	30-40	1500 UMHOS/CM	1180 MG/L	513 MG/L	8.0 STD UNIT
87/08/20	45	30-40	1250 UMHOS/CM	935 MG/L	590 MG/L	7.5 STD UNIT
88/07/19	45	30-40	1040 UMHOS/CM	1021 MG/L	598 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/08	395.0 MG/L	10 UG/L	20 UG/L	5 UG/L	105 MG/L	106 MG/L
87/08/20	396.0 MG/L	10 UG/L	26 UG/L	5 UG/L	105 MG/L	103 MG/L
88/07/19	392.0 MG/L	10 UG/L	26 UG/L	5 UG/L	104 MG/L	88 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/08	10 UG/L	10 UG/L	0.40 MG/L	48 UG/L	45 UG/L	68 MG/L
87/08/20	10 UG/L	10 UG/L	0.41 MG/L	25 UG/L	45 UG/L	73 MG/L
88/07/19	10 UG/L	10 UG/L	0.43 MG/L	25 UG/L	45 UG/L	71 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/08	10 UG/L	6.1 MG/L	8 UG/L	119 MG/L	389 MG/L	5 UG/L
87/08/20	12 UG/L	6.4 MG/L	5 UG/L	119 MG/L	279 MG/L	5 UG/L
88/07/19	10 UG/L	6.0 MG/L	10 UG/L	117 MG/L	267 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
01-003005

LEGAL DESCRIPTION
NE NE SE 03 26N 11WIM

COUNTY
ALFALFA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/08	31	23-31	100 UMHOS/CM	103 MG/L	44 MG/L	7.7 STD UNIT
87/08/20	31	23-31	100 UMHOS/CM	109 MG/L	35 MG/L	7.6 STD UNIT
88/07/19	31	23-31	50 UMHOS/CM	91 MG/L	41 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/08	37.0 MG/L	12 UG/L	53 UG/L	5 UG/L	10 MG/L	10 MG/L
87/08/20	15.0 MG/L	10 UG/L	56 UG/L	5 UG/L	9 MG/L	10 MG/L
88/07/19	15.0 MG/L	10 UG/L	52 UG/L	5 UG/L	9 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/08	10 UG/L	10 UG/L	0.14 MG/L	338 UG/L	45 UG/L	3 MG/L
87/08/20	10 UG/L	10 UG/L	0.11 MG/L	228 UG/L	45 UG/L	3 MG/L
88/07/19	10 UG/L	10 UG/L	0.12 MG/L	75 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/08	10 UG/L	1.8 MG/L	5 UG/L	11 MG/L	20 MG/L	5 UG/L
87/08/20	37 UG/L	1.9 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
88/07/19	10 UG/L	2.0 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
01-003007

LEGAL DESCRIPTION
NE NW NW 09 27N 09W1M

COUNTY
ALFALFA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/08	33	25-33	650 UMHOS/CM	394 MG/L	226 MG/L	8.0 STD UNIT
87/08/20	33	25-33	425 UMHOS/CM	360 MG/L	212 MG/L	8.0 STD UNIT
88/07/19	33	25-33	400 UMHOS/CM	307 MG/L	201 MG/L	7.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/08	154.0 MG/L	10 UG/L	254 UG/L	5 UG/L	56 MG/L	63 MG/L
87/08/20	155.0 MG/L	10 UG/L	231 UG/L	5 UG/L	48 MG/L	47 MG/L
88/07/19	110.0 MG/L	10 UG/L	193 UG/L	5 UG/L	42 MG/L	32 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/08	10 UG/L	10 UG/L	0.31 MG/L	168 UG/L	45 UG/L	22 MG/L
87/08/20	10 UG/L	10 UG/L	0.47 MG/L	25 UG/L	45 UG/L	20 MG/L
88/07/19	10 UG/L	10 UG/L	0.37 MG/L	20 UG/L	45 UG/L	16 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/08	10 UG/L	11.3 MG/L	5 UG/L	48 MG/L	37 MG/L	27 UG/L
87/08/20	10 UG/L	10.8 MG/L	5 UG/L	36 MG/L	34 MG/L	5 UG/L
88/07/19	10 UG/L	11.5 MG/L	5 UG/L	30 MG/L	35 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
01-003006

LEGAL DESCRIPTION
SE SE SE 11 28N 10WIM

COUNTY
ALFALFA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/20	38	25-35	425 UMHOS/CM	360 MG/L	286 MG/L	7.8 STD UNIT
88/07/19	38	25-35	500 UMHOS/CM	363 MG/L	277 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/20	222.0 MG/L	10 UG/L	166 UG/L	5 UG/L	67 MG/L	14 MG/L
88/07/19	165.0 MG/L	12 UG/L	144 UG/L	5 UG/L	65 MG/L	21 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/20	10 UG/L	24 UG/L	0.30 MG/L	124 UG/L	45 UG/L	25 MG/L
88/07/19	10 UG/L	10 UG/L	0.32 MG/L	81 UG/L	45 UG/L	23 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/20	10 UG/L	1.8 MG/L	5 UG/L	10 MG/L	54 MG/L	28 UG/L
88/07/19	10 UG/L	2.8 MG/L	5 UG/L	14 MG/L	64 MG/L	31 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.

01-003031

LEGAL DESCRIPTION

SW SW NW 21 28N 11W1M

COUNTY

ALFALFA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	708	463-708	700 UMHOS/CM	447 MG/L	286 MG/L	7.6 STD UNIT
87/08/17	708	463-708	2500 UMHOS/CM	875 MG/L	275 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	203.0 MG/L	10 UG/L	56 UG/L	5 UG/L	38 MG/L	100 MG/L
87/08/17	291.0 MG/L	12 UG/L	56 UG/L	5 UG/L	58 MG/L	279 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	175 UG/L	1.54 MG/L	53 UG/L	45 UG/L	20 MG/L
87/08/17	10 UG/L	10 UG/L	1.14 MG/L	22 UG/L	45 UG/L	29 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.4 MG/L	5 UG/L	89 MG/L	62 MG/L	68 UG/L
87/08/17	10 UG/L	1.6 MG/L	5 UG/L	198 MG/L	133 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003112

LEGAL DESCRIPTION
SW SW SW 04 01N 21ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/03	84	20-84	1300 UMHOS/CM	897 MG/L	439 MG/L	7.3 STD UNIT
87/08/17	84	20-84	1400 UMHOS/CM	1010 MG/L	437 MG/L	7.3 STD UNIT
88/08/03	84	20-84	1100 UMHOS/CM	755 MG/L	336 MG/L	7.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/03	217.0 MG/L	10 UG/L	107 UG/L	5 UG/L	110 MG/L	298 MG/L
87/08/17	216.0 MG/L	10 UG/L	99 UG/L	5 UG/L	183 MG/L	290 MG/L
88/08/03	203.0 MG/L	10 UG/L	85 UG/L	5 UG/L	85 MG/L	229 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/03	10 UG/L	19 UG/L	0.56 MG/L	40 UG/L	45 UG/L	26 MG/L
87/08/17	10 UG/L	38 UG/L	0.49 MG/L	174 UG/L	45 UG/L	29 MG/L
88/08/03	10 UG/L	10 UG/L	0.83 MG/L	134 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/03	10 UG/L	7.0 MG/L	5 UG/L	153 MG/L	138 MG/L	5 UG/L
87/08/17	10 UG/L	5.7 MG/L	5 UG/L	149 MG/L	137 MG/L	111 UG/L
88/08/03	10 UG/L	2.7 MG/L	5 UG/L	118 MG/L	82 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003115

LEGAL DESCRIPTION
NE NE SE 06 01N 27ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	522	180-522	600 UMHOS/CM	404 MG/L	330 MG/L	7.5 STD UNIT
87/07/06	522	180-522	650 UMHOS/CM	415 MG/L	236 MG/L	7.5 STD UNIT
88/08/09	522	180-522	600 UMHOS/CM	428 MG/L	239 MG/L	7.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	187.0 MG/L	10 UG/L	52 UG/L	5 UG/L	47 MG/L	77 MG/L
87/07/06	174.0 MG/L	10 UG/L	50 UG/L	5 UG/L	48 MG/L	74 MG/L
88/08/09	169.0 MG/L	10 UG/L	69 UG/L	5 UG/L	48 MG/L	80 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	10 UG/L	1.75 MG/L	543 UG/L	45 UG/L	25 MG/L
87/07/06	10 UG/L	10 UG/L	1.62 MG/L	101 UG/L	45 UG/L	27 MG/L
88/08/09	10 UG/L	10 UG/L	1.58 MG/L	60 UG/L	45 UG/L	27 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	1.9 MG/L	5 UG/L	54 MG/L	73 MG/L	5 UG/L
87/07/06	10 UG/L	2.4 MG/L	5 UG/L	42 MG/L	61 MG/L	7 UG/L
88/08/09	10 UG/L	2.3 MG/L	5 UG/L	52 MG/L	68 MG/L	6 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003026

LEGAL DESCRIPTION
NE NE SE 02 02N 22ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	296	240-296	600 UMHOS/CM	367 MG/L	253 MG/L	7.4 STD UNIT
87/07/06	296	240-296	600 UMHOS/CM	402 MG/L	264 MG/L	6.2 STD UNIT
88/08/03	296	240-296	430 UMHOS/CM	432 MG/L	285 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	193.0 MG/L	10 UG/L	238 UG/L	5 UG/L	66 MG/L	67 MG/L
87/07/06	175.0 MG/L	10 UG/L	236 UG/L	5 UG/L	71 MG/L	63 MG/L
88/08/03	167.0 MG/L	10 UG/L	245 UG/L	5 UG/L	70 MG/L	57 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	12 UG/L	12 UG/L	0.96 MG/L	305 UG/L	45 UG/L	18 MG/L
87/07/06	11 UG/L	10 UG/L	0.95 MG/L	946 UG/L	45 UG/L	21 MG/L
88/08/03	10 UG/L	10 UG/L	0.95 MG/L	234 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	1.8 MG/L	5 UG/L	15 MG/L	36 MG/L	5 UG/L
87/07/06	10 UG/L	2.4 MG/L	5 UG/L	13 MG/L	20 MG/L	124 UG/L
88/08/03	10 UG/L	3.6 MG/L	5 UG/L	13 MG/L	24 MG/L	213 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003113

LEGAL DESCRIPTION
NE NW NW 25 02N 24ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF (FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/03	184	49-184	700 UMHOS/CM	472 MG/L	315 MG/L	7.2 STD UNIT
86/08/03	ALKALINITY, TOTAL 185.0 MG/L	ARSENIC 10 UG/L	BARIUM 81 UG/L	CADMIUM 5 UG/L	CALCIUM 52 MG/L	CHLORIDE 127 MG/L
86/08/03	CHROMIUM 10 UG/L	COPPER 17 UG/L	FLUORIDE 0.92 MG/L	IRON 100 UG/L	LEAD 45 UG/L	MAGNESIUM 14 MG/L
86/08/03	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 3.6 MG/L	SELENIUM 5 UG/L	SODIUM 97 MG/L	SULFATE 54 MG/L	ZINC 5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003114

LEGAL DESCRIPTION
NE NW NW 33 03N 26ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/06	75	55-75	800 UMHOS/CM	548 MG/L	230 MG/L	7.0 STD UNIT
88/08/09	75	55-75	750 UMHOS/CM	441 MG/L	229 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/06	247.0 MG/L	10 UG/L	58 UG/L	5 UG/L	63 MG/L	109 MG/L
88/08/09	268.0 MG/L	10 UG/L	331 UG/L	5 UG/L	58 MG/L	92 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/06	10 UG/L	10 UG/L	0.73 MG/L	794 UG/L	45 UG/L	18 MG/L
88/08/09	10 UG/L	10 UG/L	0.65 MG/L	439 UG/L	45 UG/L	17 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/06	155 UG/L	0.5 MG/L	5 UG/L	96 MG/L	74 MG/L	156 UG/L
88/08/09	149 UG/L	0.5 MG/L	6 UG/L	82 MG/L	21 MG/L	45 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.
05-004009

LEGAL DESCRIPTION
SE SE SW 06 04N 24ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	503	125-503	700 UMHOS/CM	476 MG/L	286 MG/L	7.6 STD UNIT
87/07/09	503	125-503	750 UMHOS/CM	452 MG/L	218 MG/L	6.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	214.0 MG/L	10 UG/L	50 UG/L	5 UG/L	43 MG/L	85 MG/L
87/07/09	197.0 MG/L	10 UG/L	48 UG/L	5 UG/L	43 MG/L	65 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	19 UG/L	2.50 MG/L	50 UG/L	45 UG/L	32 MG/L
87/07/09	10 UG/L	10 UG/L	1.71 MG/L	116 UG/L	45 UG/L	26 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.1 MG/L	5 UG/L	72 MG/L	77 MG/L	5 UG/L
87/07/09	10 UG/L	2.0 MG/L	5 UG/L	66 MG/L	73 MG/L	47 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000107

LEGAL DESCRIPTION
SW SW SW 28 05N 20ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	402	140-402	1250 UMHOS/CM	708 MG/L	550 MG/L	7.3 STD UNIT
87/08/17	402	140-402	850 UMHOS/CM	568 MG/L	251 MG/L	7.3 STD UNIT
88/08/09	402	140-402	600 UMHOS/CM	417 MG/L	240 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	205.0 MG/L	10 UG/L	50 UG/L	5 UG/L	62 MG/L	272 MG/L
87/08/17	282.0 MG/L	10 UG/L	46 UG/L	5 UG/L	54 MG/L	113 MG/L
88/08/09	195.0 MG/L	10 UG/L	80 UG/L	5 UG/L	53 MG/L	65 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	10 UG/L	0.80 MG/L	91 UG/L	45 UG/L	28 MG/L
87/08/17	10 UG/L	12 UG/L	1.14 MG/L	80 UG/L	45 UG/L	26 MG/L
88/08/09	10 UG/L	10 UG/L	0.96 MG/L	19 UG/L	45 UG/L	23 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	1.8 MG/L	5 UG/L	154 MG/L	81 MG/L	5 UG/L
87/08/17	10 UG/L	1.9 MG/L	5 UG/L	94 MG/L	98 MG/L	12 UG/L
88/08/09	10 UG/L	3.3 MG/L	7 UG/L	44 MG/L	42 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003111

LEGAL DESCRIPTION
NE NW SW 29 05N 22ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	118	33-113	600 UMHOS/CM	433 MG/L	316 MG/L	7.4 STD UNIT
87/07/06	118	33-113	440 UMHOS/CM	377 MG/L	236 MG/L	6.9 STD UNIT
88/08/09	118	33-113	500 UMHOS/CM	364 MG/L	230 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	222.0 MG/L	10 UG/L	193 UG/L	5 UG/L	69 MG/L	35 MG/L
87/07/06	243.0 MG/L	10 UG/L	180 UG/L	5 UG/L	73 MG/L	28 MG/L
88/08/09	218.0 MG/L	10 UG/L	191 UG/L	5 UG/L	69 MG/L	32 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	18 UG/L	0.51 MG/L	69 UG/L	45 UG/L	12 MG/L
87/07/06	10 UG/L	10 UG/L	0.47 MG/L	26 UG/L	45 UG/L	13 MG/L
88/08/09	10 UG/L	10 UG/L	0.48 MG/L	15 UG/L	45 UG/L	13 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.8 MG/L	7 UG/L	34 MG/L	39 MG/L	5 UG/L
87/07/06	10 UG/L	3.3 MG/L	5 UG/L	33 MG/L	43 MG/L	5 UG/L
88/08/09	10 UG/L	3.0 MG/L	5 UG/L	33 MG/L	38 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000046

LEGAL DESCRIPTION
SE SE NE 25 05N 23ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	310	227-310	750 UMHOS/CM	386 MG/L	310 MG/L	7.3 STD UNIT
87/07/06	310	227-310	625 UMHOS/CM	534 MG/L	312 MG/L	6.9 STD UNIT
88/08/03	310	227-310	825 UMHOS/CM	877 MG/L	413 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	201.0 MG/L	10 UG/L	141 UG/L	5 UG/L	90 MG/L	135 MG/L
87/07/06	223.0 MG/L	10 UG/L	137 UG/L	5 UG/L	97 MG/L	122 MG/L
88/08/03	176.0 MG/L	10 UG/L	146 UG/L	5 UG/L	113 MG/L	190 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	10 UG/L	0.40 MG/L	167 UG/L	45 UG/L	15 MG/L
87/07/06	10 UG/L	10 UG/L	0.33 MG/L	42 UG/L	45 UG/L	17 MG/L
88/08/03	10 UG/L	11 UG/L	0.34 MG/L	12 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.0 MG/L	5 UG/L	37 MG/L	20 MG/L	153 UG/L
87/07/06	10 UG/L	2.4 MG/L	5 UG/L	33 MG/L	26 MG/L	105 UG/L
88/08/03	10 UG/L	2.8 MG/L	5 UG/L	48 MG/L	20 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000032

LEGAL DESCRIPTION
SE SE NW 18 05N 25ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	220	160-220	800 UMHOS/CM	595 MG/L	442 MG/L	7.3 STD UNIT
87/07/06	220	160-220	650 UMHOS/CM	331 MG/L	364 MG/L	6.9 STD UNIT
88/08/03	220	160-220	800 UMHOS/CM	706 MG/L	470 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	326.0 MG/L	10 UG/L	232 UG/L	5 UG/L	117 MG/L	56 MG/L
87/07/06	352.0 MG/L	21 UG/L	276 UG/L	5 UG/L	110 MG/L	46 MG/L
88/08/03	320.0 MG/L	10 UG/L	206 UG/L	5 UG/L	124 MG/L	53 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	10 UG/L	0.33 MG/L	249 UG/L	45 UG/L	25 MG/L
87/07/06	10 UG/L	71 UG/L	0.18 MG/L	4982 UG/L	67 UG/L	21 MG/L
88/08/03	10 UG/L	10 UG/L	0.31 MG/L	167 UG/L	45 UG/L	31 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	5.9 MG/L	5 UG/L	41 MG/L	86 MG/L	235 UG/L
87/07/06	10 UG/L	6.2 MG/L	5 UG/L	35 MG/L	53 MG/L	2312 UG/L
88/08/03	10 UG/L	5.8 MG/L	7 UG/L	47 MG/L	121 MG/L	65 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003110

LEGAL DESCRIPTION
SW SW SE 12 05N 27ECM

COUNTY
BEAVER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/03	61	31-61	800 UMHOS/CM	662 MG/L	343 MG/L	7.1 STD UNIT
87/07/30	61	31-61	750 UMHOS/CM	838 MG/L	377 MG/L	7.0 STD UNIT
88/07/26	61	31-61		694 MG/L	389 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/03	230.0 MG/L	10 UG/L	300 UG/L	20 UG/L	41 MG/L	10 MG/L
87/07/30	212.0 MG/L	10 UG/L	20 UG/L	5 UG/L	91 MG/L	10 MG/L
88/07/26	219.0 MG/L	10 UG/L	26 UG/L	5 UG/L	91 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/03	100 UG/L	40 UG/L	1.55 MG/L	100 UG/L	200 UG/L	27 MG/L
87/07/30	10 UG/L	10 UG/L	1.43 MG/L	10 UG/L	45 UG/L	31 MG/L
88/07/26	10 UG/L	10 UG/L	1.46 MG/L	26 UG/L	45 UG/L	31 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/03	20 UG/L	21.7 MG/L	5 UG/L	50 MG/L	204 MG/L	40 UG/L
87/07/30	10 UG/L	20.2 MG/L	5 UG/L	59 MG/L	156 MG/L	5 UG/L
88/07/26	10 UG/L	26.5 MG/L	5 UG/L	54 MG/L	175 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE NORTH FORK OF THE RED RIVER

AQUIFER-WELL NO.
09-003019

LEGAL DESCRIPTION
NW NW SW 26 09N 22WIM

COUNTY
BECKHAM

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/11	103	40-103	1600 UMHOS/CM	1798 MG/L	657 MG/L	7.2 STD UNIT
87/07/30	103	40-103	1700 UMHOS/CM	2025 MG/L	1285 MG/L	6.8 STD UNIT
88/07/26	103	40-103	2000 UMHOS/CM	1981 MG/L	1216 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/11	283.0 MG/L	10 UG/L	20 UG/L	5 UG/L	285 MG/L	96 MG/L
87/07/30	251.0 MG/L	10 UG/L	20 UG/L	5 UG/L	337 MG/L	149 MG/L
88/07/26	267.0 MG/L	10 UG/L	21 UG/L	5 UG/L	312 MG/L	127 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/11	44 UG/L	43 UG/L	0.21 MG/L	110 UG/L	45 UG/L	58 MG/L
87/07/30	10 UG/L	10 UG/L	0.22 MG/L	60 UG/L	45 UG/L	72 MG/L
88/07/26	10 UG/L	10 UG/L	0.18 MG/L	64 UG/L	45 UG/L	67 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/11	20 UG/L	2.4 MG/L	5 UG/L	110 MG/L	744 MG/L	5 UG/L
87/07/30	10 UG/L	1.4 MG/L	5 UG/L	103 MG/L	874 MG/L	5 UG/L
88/07/26	10 UG/L	1.6 MG/L	5 UG/L	102 MG/L	861 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE NORTH FORK OF THE RED RIVER

AQUIFER-WELL NO.
09-003008

LEGAL DESCRIPTION
NE NE NW 18 09N 24WIM

COUNTY
BECKHAM

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/25	141	61-141	690 UMHOS/CM	450 MG/L	339 MG/L	7.2 STD UNIT
87/09/01	141	61-141	500 UMHOS/CM	394 MG/L	287 MG/L	6.6 STD UNIT
88/07/26	141	61-141		433 MG/L	299 MG/L	6.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/25	213.0 MG/L	10 UG/L	405 UG/L	5 UG/L	104 MG/L	43 MG/L
87/09/01	271.0 MG/L	10 UG/L	390 UG/L	5 UG/L	72 MG/L	28 MG/L
88/07/26	268.0 MG/L	10 UG/L	389 UG/L	5 UG/L	86 MG/L	26 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/25	10 UG/L	10 UG/L	0.38 MG/L	10 UG/L	45 UG/L	17 MG/L
87/09/01	10 UG/L	10 UG/L	0.26 MG/L	10 UG/L	45 UG/L	18 MG/L
88/07/26	10 UG/L	10 UG/L	0.30 MG/L	10 UG/L	45 UG/L	18 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/25	10 UG/L	2.6 MG/L	5 UG/L	38 MG/L	32 MG/L	5 UG/L
87/09/01	10 UG/L	6.3 MG/L	5 UG/L	24 MG/L	20 MG/L	17 UG/L
88/07/26	10 UG/L	9.4 MG/L	5 UG/L	26 MG/L	20 MG/L	6 UG/L

ELK CITY SANDSTONE

AQUIFER-WELL NO.
13-001218

LEGAL DESCRIPTION
SW NW NW 34 11N 22W1M

COUNTY
BECKHAM

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	180	40-180	300 UMHOS/CM	261 MG/L	164 MG/L	7.6 STD UNIT
87/08/07	180	40-180	300 UMHOS/CM	260 MG/L	178 MG/L	7.1 STD UNIT
88/07/22	180	40-180	310 UMHOS/CM	260 MG/L	190 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	200.0 MG/L	12 UG/L	226 UG/L	5 UG/L	59 MG/L	10 MG/L
87/08/07	201.0 MG/L	10 UG/L	197 UG/L	5 UG/L	55 MG/L	10 MG/L
88/07/22	179.0 MG/L	10 UG/L	190 UG/L	5 UG/L	55 MG/L	11 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	37 UG/L	0.18 MG/L	69 UG/L	45 UG/L	9 MG/L
87/08/07	10 UG/L	10 UG/L	0.14 MG/L	37 UG/L	45 UG/L	8 MG/L
88/07/22	10 UG/L	10 UG/L	0.16 MG/L	63 UG/L	45 UG/L	8 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	1.9 MG/L	5 UG/L	20 MG/L	20 MG/L	99 UG/L
87/08/07	10 UG/L	2.3 MG/L	5 UG/L	31 MG/L	20 MG/L	22 UG/L
88/07/22	10 UG/L	1.8 MG/L	5 UG/L	24 MG/L	20 MG/L	10 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-003101

LEGAL DESCRIPTION
SW SW SW 05 13N 13W1M

COUNTY
BLAINE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	60	10-50	2550 UMHOS/CM	2166 MG/L	1408 MG/L	6.6 STD UNIT

87/08/06	ALKALINITY, TOTAL 944.0 MG/L	ARSENIC 10 UG/L	BARIUM 66 UG/L	CADMIUM 5 UG/L	CALCIUM 236 MG/L	CHLORIDE 144 MG/L
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87/08/06	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 1.70 MG/L	IRON 10 UG/L	LEAD 45 UG/L	MAGNESIUM 190 MG/L
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87/08/06	MANGANESE, TOTAL 461 UG/L	NITRITE-NITRATE AS N 10.1 MG/L	SELENIUM 5 UG/L	SODIUM 227 MG/L	SULFATE 615 MG/L	ZINC 16 UG/L
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ALLUVIUM AND TERRACE DEPOSITS OF THE CANADIAN RIVER

AQUIFER-WELL NO.
06-003020

LEGAL DESCRIPTION
NE NW SW 05 14N 13W1M

COUNTY
BLAINE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/07	59	49-59	1200 UMHOS/CM	976 MG/L	439 MG/L	7.1 STD UNIT
88/07/25	59	49-59	970 UMHOS/CM	820 MG/L	10 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/07	409.0 MG/L	10 UG/L	91 UG/L	5 UG/L	106 MG/L	63 MG/L
88/07/25	344.0 MG/L	10 UG/L	10 UG/L	5 UG/L	2 MG/L	44 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/07	10 UG/L	13 UG/L	1.37 MG/L	3521 UG/L	45 UG/L	48 MG/L
88/07/25	10 UG/L	10 UG/L	1.25 MG/L	176 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/07	335 UG/L	0.5 MG/L	5 UG/L	204 MG/L	189 MG/L	1432 UG/L
88/07/25	11 UG/L	0.5 MG/L	5 UG/L	261 MG/L	281 MG/L	20 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.
05-004005

LEGAL DESCRIPTION
SW SW SW 25 15N 11WIM

COUNTY
BLAINE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/23	400	300-380	1652 UMHOS/CM	545 MG/L	10 MG/L	8.0 STD UNIT
87/07/23	400	300-380	NOT SAMPLED	520 MG/L	48 MG/L	8.0 STD UNIT
88/07/12	400	300-380	880 UMHOS/CM	558 MG/L	10 MG/L	9.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/23	321.0 MG/L	10 UG/L	10 UG/L	5 UG/L	1 MG/L	42 MG/L
87/07/23	342.0 MG/L	10 UG/L	13 UG/L	5 UG/L	5 MG/L	48 MG/L
88/07/12	301.0 MG/L	10 UG/L	10 UG/L	5 UG/L	1 MG/L	42 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/23	10 UG/L	10 UG/L	0.49 MG/L	10 UG/L	45 UG/L	1 MG/L
87/07/23	10 UG/L	14 UG/L	0.34 MG/L	10 UG/L	45 UG/L	1 MG/L
88/07/12	10 UG/L	10 UG/L	0.49 MG/L	991 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/23	10 UG/L	0.5 MG/L	5 UG/L	215 MG/L	68 MG/L	5 UG/L
87/07/23	12 UG/L	0.5 MG/L	10 UG/L	175 MG/L	76 MG/L	13 UG/L
88/07/12	18 UG/L	0.5 MG/L	5 UG/L	208 MG/L	68 MG/L	8 UG/L

ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-003016

LEGAL DESCRIPTION
SW NW SE 04 05S 09E1M

COUNTY
BRYAN

34

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/14	180	117-177	1306 UMHOS/CM	888 MG/L	82 MG/L	7.0 STD UNIT
88/07/12	180	117-177	1600 UMHOS/CM	891 MG/L	48 MG/L	8.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/14	384.0 MG/L	10 UG/L	12 UG/L	5 UG/L	16 MG/L	15 MG/L
88/07/12	368.0 MG/L	10 UG/L	15 UG/L	5 UG/L	15 MG/L	21 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/14	10 UG/L	11 UG/L	0.36 MG/L	26 UG/L	45 UG/L	6 MG/L
88/07/12	10 UG/L	10 UG/L	0.88 MG/L	30 UG/L	45 UG/L	6 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/14	25 UG/L	0.5 MG/L	5 UG/L	288 MG/L	295 MG/L	8 UG/L
88/07/12	25 UG/L	0.5 MG/L	5 UG/L	270 MG/L	269 MG/L	5 UG/L

ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-003020

LEGAL DESCRIPTION
SE SW SW 29 06S 10E1M

COUNTY
BRYAN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/22	70	68-70	307 UMHOS/CM	139 MG/L	137 MG/L	6.0 STD UNIT
87/07/23	70	68-70	NOT SAMPLED	137 MG/L	261 MG/L	7.0 STD UNIT
88/07/12	70	68-70	140 UMHOS/CM	131 MG/L	51 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/22	51.0 MG/L	10 UG/L	47 UG/L	5 UG/L	16 MG/L	10 MG/L
87/07/23	63.0 MG/L	10 UG/L	47 UG/L	5 UG/L	17 MG/L	10 MG/L
88/07/12	34.0 MG/L	10 UG/L	63 UG/L	5 UG/L	16 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/22	10 UG/L	10 UG/L	0.11 MG/L	107 UG/L	45 UG/L	2 MG/L
87/07/23	10 UG/L	10 UG/L	0.10 MG/L	127 UG/L	45 UG/L	2 MG/L
88/07/12	10 UG/L	29 UG/L	0.10 MG/L	362 UG/L	45 UG/L	2 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/22	10 UG/L	1.0 MG/L	5 UG/L	12 MG/L	20 MG/L	5 UG/L
87/07/23	10 UG/L	1.6 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
88/07/12	10 UG/L	1.6 MG/L	5 UG/L	10 MG/L	20 MG/L	27 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE RED RIVER

AQUIFER-WELL NO.
10-003207

LEGAL DESCRIPTION
SW NE SW 15 08S 07E1M

COUNTY
BRYAN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	50	42-50	1700 UMHOS/CM	1077 MG/L	633 MG/L	7.0 STD UNIT
87/07/21	50	42-50	NOT SAMPLED	1355 MG/L	243 MG/L	7.0 STD UNIT
88/07/12	50	42-50	1750 UMHOS/CM	1194 MG/L	716 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	409.0 MG/L	10 UG/L	50 UG/L	5 UG/L	115 MG/L	140 MG/L
87/07/21	674.0 MG/L	10 UG/L	53 UG/L	5 UG/L	136 MG/L	188 MG/L
88/07/12	575.0 MG/L	10 UG/L	63 UG/L	5 UG/L	123 MG/L	131 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	0.55 MG/L	3421 UG/L	45 UG/L	98 MG/L
87/07/21	10 UG/L	100 UG/L	0.44 MG/L	1578 UG/L	45 UG/L	89 MG/L
88/07/12	10 UG/L	10 UG/L	0.43 MG/L	371 UG/L	45 UG/L	81 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	131 UG/L	0.5 MG/L	5 UG/L	174 MG/L	246 MG/L	5 UG/L
87/07/21	319 UG/L	0.5 MG/L	5 UG/L	171 MG/L	206 MG/L	20 UG/L
88/07/12	285 UG/L	0.5 MG/L	5 UG/L	156 MG/L	245 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE RED RIVER

AQUIFER-WELL NO.
10-003209

LEGAL DESCRIPTION
SW SW SW 07 09S 11E1M

COUNTY
BRYAN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/20	88	44-88	500 UMHOS/CM	346 MG/L	259 MG/L	7.0 STD UNIT
88/07/22	88	44-88	300 UMHOS/CM	63 MG/L	282 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/20	267.0 MG/L	10 UG/L	51 UG/L	5 UG/L	70 MG/L	11 MG/L
88/07/22	214.0 MG/L	10 UG/L	329 UG/L	5 UG/L	84 MG/L	19 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/20	10 UG/L	50 UG/L	0.34 MG/L	185 UG/L	45 UG/L	16 MG/L
88/07/22	10 UG/L	10 UG/L	0.27 MG/L	258 UG/L	45 UG/L	14 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/20	124 UG/L	1.9 MG/L	5 UG/L	20 MG/L	20 MG/L	51 UG/L
88/07/22	126 UG/L	0.5 MG/L	5 UG/L	25 MG/L	50 MG/L	16 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE WASHITA RIVER

AQUIFER-WELL NO.
08-003016

LEGAL DESCRIPTION
SE SW NW 05 07N 13WIM

COUNTY
CADD0

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/05	242	10-242	550 UMHOS/CM	455 MG/L	272 MG/L	7.3 STD UNIT
87/08/12	242	10-242	600 UMHOS/CM	499 MG/L	335 MG/L	6.7 STD UNIT
88/07/22	242	10-242		533 MG/L	357 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/05	273.0 MG/L	10 UG/L	360 UG/L	20 UG/L	50 MG/L	11 MG/L
87/08/12	243.0 MG/L	10 UG/L	188 UG/L	5 UG/L	119 MG/L	14 MG/L
88/07/22	209.0 MG/L	10 UG/L	174 UG/L	5 UG/L	119 MG/L	21 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/05	100 UG/L	40 UG/L	0.26 MG/L	100 UG/L	200 UG/L	9 MG/L
87/08/12	10 UG/L	10 UG/L	0.16 MG/L	88 UG/L	45 UG/L	11 MG/L
88/07/22	10 UG/L	10 UG/L	0.16 MG/L	18 UG/L	45 UG/L	10 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/05	20 UG/L	1.1 MG/L	5 UG/L	25 MG/L	93 MG/L	220 UG/L
87/08/12	10 UG/L	1.0 MG/L	5 UG/L	28 MG/L	115 MG/L	55 UG/L
88/07/22	10 UG/L	0.5 MG/L	5 UG/L	32 MG/L	137 MG/L	54 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-000522

LEGAL DESCRIPTION
NE SE SE 20 08N 11WIM

COUNTY
CADD0

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/03	266	20-266	180 UMHOS/CM	392 MG/L	269 MG/L	7.2 STD UNIT
87/08/12	266	20-266	700 UMHOS/CM	593 MG/L	367 MG/L	6.8 STD UNIT
88/07/22	266	20-266		644 MG/L	383 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/03	258.0 MG/L	10 UG/L	470 UG/L	20 UG/L	41 MG/L	10 MG/L
87/08/12	221.0 MG/L	10 UG/L	163 UG/L	5 UG/L	110 MG/L	21 MG/L
88/07/22	189.0 MG/L	10 UG/L	175 UG/L	5 UG/L	119 MG/L	32 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/03	100 UG/L	40 UG/L	0.32 MG/L	100 UG/L	200 UG/L	12 MG/L
87/08/12	10 UG/L	10 UG/L	0.22 MG/L	14 UG/L	45 UG/L	20 MG/L
88/07/22	10 UG/L	10 UG/L	0.20 MG/L	158 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/03	20 UG/L	18.4 MG/L	5 UG/L	13 MG/L	21 MG/L	130 UG/L
87/08/12	10 UG/L	32.2 MG/L	5 UG/L	30 MG/L	23 MG/L	68 UG/L
88/07/22	10 UG/L	44.1 MG/L	5 UG/L	27 MG/L	34 MG/L	90 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-003007

LEGAL DESCRIPTION
SE SE NE 30 09N 11WIM

COUNTY
CADD0

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/03	395	20-395	145 UMHOS/CM	283 MG/L	188 MG/L	7.5 STD UNIT
87/08/12	395	20-395	500 UMHOS/CM	327 MG/L	235 MG/L	7.1 STD UNIT
88/07/22	395	20-395		358 MG/L	261 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/03	210.0 MG/L	10 UG/L	400 UG/L	20 UG/L	22 MG/L	10 MG/L
87/08/12	195.0 MG/L	10 UG/L	42 UG/L	5 UG/L	59 MG/L	11 MG/L
88/07/22	157.0 MG/L	10 UG/L	46 UG/L	5 UG/L	65 MG/L	21 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/03	100 UG/L	40 UG/L	0.10 MG/L	100 UG/L	200 UG/L	12 MG/L
87/08/12	10 UG/L	10 UG/L	0.10 MG/L	115 UG/L	45 UG/L	17 MG/L
88/07/22	10 UG/L	10 UG/L	0.10 MG/L	248 UG/L	45 UG/L	18 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/03	20 UG/L	8.5 MG/L	5 UG/L	14 MG/L	21 MG/L	280 UG/L
87/08/12	10 UG/L	10.8 MG/L	5 UG/L	25 MG/L	20 MG/L	121 UG/L
88/07/22	10 UG/L	12.6 MG/L	5 UG/L	22 MG/L	30 MG/L	225 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-000510

LEGAL DESCRIPTION
NW NW SW 27 10N 13WIM

COUNTY
CADD0

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/03	105	10-100	250 UMHOS/CM	498 MG/L	277 MG/L	7.3 STD UNIT
87/08/12	105	10-100	650 UMHOS/CM	485 MG/L	337 MG/L	6.7 STD UNIT
88/07/22	105	10-100		497 MG/L	331 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/03	267.0 MG/L	10 UG/L	460 UG/L	20 UG/L	40 MG/L	10 MG/L
87/08/12	303.0 MG/L	10 UG/L	185 UG/L	5 UG/L	93 MG/L	12 MG/L
88/07/22	253.0 MG/L	10 UG/L	184 UG/L	5 UG/L	91 MG/L	19 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/03	100 UG/L	40 UG/L	0.49 MG/L	100 UG/L	200 UG/L	16 MG/L
87/08/12	10 UG/L	10 UG/L	0.61 MG/L	23 UG/L	45 UG/L	24 MG/L
88/07/22	10 UG/L	11 UG/L	0.51 MG/L	73 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/03	20 UG/L	6.8 MG/L	5 UG/L	23 MG/L	108 MG/L	40 UG/L
87/08/12	10 UG/L	4.8 MG/L	5 UG/L	43 MG/L	67 MG/L	19 UG/L
88/07/22	10 UG/L	4.6 MG/L	5 UG/L	39 MG/L	82 MG/L	15 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-000496

LEGAL DESCRIPTION
SW SW SW 33 11N 11WIM

COUNTY
CADD0

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/15	45	33-45	1500 UMHOS/CM	1123 MG/L	543 MG/L	7.5 STD UNIT
87/08/11	45	33-45	1300 UMHOS/CM	894 MG/L	476 MG/L	7.1 STD UNIT
88/07/05	45	33-45	1500 UMHOS/CM	905 MG/L	396 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/15	296.0 MG/L	22 UG/L	118 UG/L	5 UG/L	132 MG/L	114 MG/L
87/08/11	276.0 MG/L	10 UG/L	23 UG/L	5 UG/L	113 MG/L	115 MG/L
88/07/05	385.0 MG/L	10 UG/L	82 UG/L	5 UG/L	125 MG/L	73 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/15	10 UG/L	10 UG/L	0.99 MG/L	891 UG/L	45 UG/L	63 MG/L
87/08/11	10 UG/L	10 UG/L	0.80 MG/L	403 UG/L	45 UG/L	43 MG/L
88/07/05	10 UG/L	10 UG/L	0.84 MG/L	827 UG/L	45 UG/L	46 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/15	242 UG/L	0.5 MG/L	5 UG/L	149 MG/L	338 MG/L	59 UG/L
87/08/11	263 UG/L	0.5 MG/L	5 UG/L	121 MG/L	268 MG/L	121 UG/L
88/07/05	670 UG/L	0.5 MG/L	5 UG/L	98 MG/L	260 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.
05-003009

LEGAL DESCRIPTION
NE NE NW 33 13N 07WIM

COUNTY
CANADIAN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	208	128-208	1100 UMHOS/CM	990 MG/L	248 MG/L	7.5 STD UNIT
87/09/03	208	128-208	1300 UMHOS/CM	971 MG/L	287 MG/L	7.1 STD UNIT
88/07/07	208	128-208	2500 UMHOS/CM	1191 MG/L	357 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	362.0 MG/L	10 UG/L	13 UG/L	5 UG/L	63 MG/L	78 MG/L
87/09/03	356.0 MG/L	10 UG/L	13 UG/L	5 UG/L	58 MG/L	87 MG/L
88/07/07	381.0 MG/L	10 UG/L	16 UG/L	5 UG/L	79 MG/L	94 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.63 MG/L	396 UG/L	45 UG/L	28 MG/L
87/09/03	10 UG/L	10 UG/L	0.56 MG/L	883 UG/L	45 UG/L	26 MG/L
88/07/07	10 UG/L	10 UG/L	0.51 MG/L	645 UG/L	45 UG/L	36 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	40 UG/L	0.5 MG/L	5 UG/L	259 MG/L	311 MG/L	5 UG/L
87/09/03	39 UG/L	0.5 MG/L	5 UG/L	211 MG/L	323 MG/L	8 UG/L
88/07/07	46 UG/L	0.5 MG/L	5 UG/L	256 MG/L	461 MG/L	8 UG/L

OSCAR FORMATION

AQUIFER-WELL NO.
17-003006

LEGAL DESCRIPTION
SW SE SW 12 04S 03W1M

COUNTY
CARTER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/14	170	150-160	419 UMHOS/CM	279 MG/L	30 MG/L	7.0 STD UNIT
88/07/13	170	150-160	405 UMHOS/CM	273 MG/L	10 MG/L	8.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/14	241.0 MG/L	10 UG/L	14 UG/L	5 UG/L	8 MG/L	12 MG/L
88/07/13	194.0 MG/L	10 UG/L	10 UG/L	5 UG/L	8 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/14	10 UG/L	10 UG/L	0.99 MG/L	16 UG/L	45 UG/L	2 MG/L
88/07/13	10 UG/L	10 UG/L	1.03 MG/L	19 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/14	14 UG/L	0.5 MG/L	5 UG/L	100 MG/L	21 MG/L	5 UG/L
88/07/13	10 UG/L	0.5 MG/L	5 UG/L	90 MG/L	20 MG/L	5 UG/L

ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-003021

LEGAL DESCRIPTION
NW NW NE 26 05S 18E1M

COUNTY
CHOCTAW

1

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/22	320	90-311	118 UMHOS/CM	58 MG/L	79 MG/L	6.0 STD UNIT

86/07/22	ALKALINITY, TOTAL 15.0 MG/L	ARSENIC 10 UG/L	BARIUM 69 UG/L	CADMIUM 5 UG/L	CALCIUM 4 MG/L	CHLORIDE 10 MG/L
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86/07/22	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.10 MG/L	IRON 64 UG/L	LEAD 45 UG/L	MAGNESIUM 2 MG/L
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86/07/22	MANGANESE, TOTAL 22 UG/L	NITRITE-NITRATE AS N 3.9 MG/L	SELENIUM 5 UG/L	SODIUM 10 MG/L	SULFATE 20 MG/L	ZINC 5 UG/L
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ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-000547

LEGAL DESCRIPTION
SE SE SW 02 06S 19E1M

COUNTY
CHOCTAW

46

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
88/07/13	380	91-364	70 UMHOS/CM	64 MG/L	17 MG/L	5.4 STD UNIT

88/07/13	ALKALINITY, TOTAL 59.0 MG/L	ARSENIC 10 UG/L	BARIUM 80 UG/L	CADMIUM 5 UG/L	CALCIUM 5 MG/L	CHLORIDE 10 MG/L
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88/07/13	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.10 MG/L	IRON 37 UG/L	LEAD 45 UG/L	MAGNESIUM 2 MG/L
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88/07/13	MANGANESE, TOTAL 25 UG/L	NITRITE-NITRATE AS N 4.5 MG/L	SELENIUM 5 UG/L	SODIUM 10 MG/L	SULFATE 20 MG/L	ZINC 54 UG/L
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ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-003023

LEGAL DESCRIPTION
SE SW SW 02 06S 19E1M

COUNTY
CHOCTAW

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/14	42	32-37	329 UMHOS/CM	245 MG/L	150 MG/L	7.0 STD UNIT
88/07/13	42	32-37	310 UMHOS/CM	239 MG/L	165 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/14	128.0 MG/L	10 UG/L	322 UG/L	5 UG/L	45 MG/L	12 MG/L
88/07/13	100.0 MG/L	10 UG/L	352 UG/L	5 UG/L	43 MG/L	18 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/14	10 UG/L	10 UG/L	0.18 MG/L	12 UG/L	45 UG/L	10 MG/L
88/07/13	10 UG/L	10 UG/L	0.22 MG/L	22 UG/L	45 UG/L	9 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/14	10 UG/L	1.9 MG/L	5 UG/L	10 MG/L	33 MG/L	5 UG/L
88/07/13	10 UG/L	1.0 MG/L	5 UG/L	12 MG/L	23 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE RED RIVER

AQUIFER-WELL NO.
10-003212

LEGAL DESCRIPTION
NW NW SW 34 07S 19E1M

COUNTY
CHOCTAW

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/06	450	150-285	350 UMHOS/CM	237 MG/L	193 MG/L	7.4 STD UNIT
87/07/09	450	150-285	280 UMHOS/CM	232 MG/L	166 MG/L	7.4 STD UNIT
88/08/17	450	150-285	325 UMHOS/CM	277 MG/L	218 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/06	185.0 MG/L	10 UG/L	111 UG/L	5 UG/L	47 MG/L	16 MG/L
87/07/09	151.0 MG/L	10 UG/L	122 UG/L	5 UG/L	39 MG/L	12 MG/L
88/08/17	186.0 MG/L	10 UG/L	108 UG/L	5 UG/L	46 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/06	10 UG/L	17 UG/L	1.08 MG/L	447 UG/L	45 UG/L	16 MG/L
87/07/09	10 UG/L	10 UG/L	1.56 MG/L	80 UG/L	45 UG/L	17 MG/L
88/08/17	10 UG/L	10 UG/L	1.07 MG/L	74 UG/L	45 UG/L	17 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/06	10 UG/L	3.1 MG/L	5 UG/L	18 MG/L	27 MG/L	5 UG/L
87/07/09	10 UG/L	3.3 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
88/08/17	10 UG/L	1.8 MG/L	5 UG/L	15 MG/L	36 MG/L	25 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003118

LEGAL DESCRIPTION
SW SW SE 24 01N 01ECM

COUNTY
CIMARRON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/06	490	100-490	450 UMHOS/CM	327 MG/L	259 MG/L	7.5 STD UNIT
87/07/07	490	100-490	420 UMHOS/CM	350 MG/L	230 MG/L	7.4 STD UNIT
88/08/17	490	100-490	890 UMHOS/CM	595 MG/L	68 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/06	178.0 MG/L	10 UG/L	82 UG/L	5 UG/L	47 MG/L	29 MG/L
87/07/07	224.0 MG/L	10 UG/L	80 UG/L	5 UG/L	45 MG/L	27 MG/L
88/08/17	370.0 MG/L	10 UG/L	31 UG/L	5 UG/L	12 MG/L	14 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/06	11 UG/L	10 UG/L	1.54 MG/L	92 UG/L	45 UG/L	24 MG/L
87/07/07	10 UG/L	10 UG/L	1.60 MG/L	168 UG/L	45 UG/L	25 MG/L
88/08/17	10 UG/L	10 UG/L	1.09 MG/L	30 UG/L	45 UG/L	7 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/06	10 UG/L	4.6 MG/L	5 UG/L	21 MG/L	40 MG/L	5 UG/L
87/07/07	10 UG/L	5.3 MG/L	5 UG/L	11 MG/L	43 MG/L	5 UG/L
88/08/17	10 UG/L	0.5 MG/L	5 UG/L	198 MG/L	134 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000074

LEGAL DESCRIPTION
NW NE SW 28 01N 04ECM

COUNTY
CIMARRON

50

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	410	200-410	450 UMHOS/CM	310 MG/L	287 MG/L	7.5 STD UNIT

86/08/05	ALKALINITY, TOTAL 181.0 MG/L	ARSENIC 10 UG/L	BARIUM 58 UG/L	CADMIUM 5 UG/L	CALCIUM 38 MG/L	CHLORIDE 33 MG/L
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86/08/05	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 2.31 MG/L	IRON 49 UG/L	LEAD 45 UG/L	MAGNESIUM 26 MG/L
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86/08/05	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 2.7 MG/L	SELENIUM 5 UG/L	SODIUM 30 MG/L	SULFATE 51 MG/L	ZINC 5 UG/L
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OGALLALA FORMATION

AQUIFER-WELL NO.
11-003116

LEGAL DESCRIPTION
NE NW NW 14 01N 09E CM

COUNTY
CIMARRON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	393	200-393	450 UMHOS/CM	316 MG/L	209 MG/L	7.5 STD UNIT
87/07/07	393	200-393	380 UMHOS/CM	335 MG/L	208 MG/L	7.7 STD UNIT
88/08/17	393	200-393	400 UMHOS/CM	326 MG/L	218 MG/L	7.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	190.0 MG/L	10 UG/L	61 UG/L	5 UG/L	43 MG/L	30 MG/L
87/07/07	209.0 MG/L	10 UG/L	55 UG/L	5 UG/L	43 MG/L	23 MG/L
88/08/17	191.0 MG/L	10 UG/L	62 UG/L	5 UG/L	42 MG/L	26 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	1.85 MG/L	40 UG/L	45 UG/L	23 MG/L
87/07/07	10 UG/L	10 UG/L	1.96 MG/L	19 UG/L	45 UG/L	23 MG/L
88/08/17	10 UG/L	10 UG/L	1.95 MG/L	41 UG/L	45 UG/L	23 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	2.3 MG/L	5 UG/L	28 MG/L	70 MG/L	5 UG/L
87/07/07	10 UG/L	2.6 MG/L	5 UG/L	28 MG/L	50 MG/L	5 UG/L
88/08/17	10 UG/L	1.2 MG/L	5 UG/L	28 MG/L	47 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003119

LEGAL DESCRIPTION
SW NE SW 13 02N 07ECM

COUNTY
CIMARRON

52

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	586	386-586	400 UMHOS/CM	290 MG/L	199 MG/L	7.4 STD UNIT

86/08/05	ALKALINITY, TOTAL 195.0 MG/L	ARSENIC 10 UG/L	BARIUM 110 UG/L	CADMIUM 5 UG/L	CALCIUM 57 MG/L	CHLORIDE 21 MG/L
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86/08/05	CHROMIUM 10 UG/L	COPPER 15 UG/L	FLUORIDE 1.40 MG/L	IRON 267 UG/L	LEAD 45 UG/L	MAGNESIUM 13 MG/L
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86/08/05	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 0.6 MG/L	SELENIUM 5 UG/L	SODIUM 72 MG/L	SULFATE 38 MG/L	ZINC 5 UG/L
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OGALLALA FORMATION

AQUIFER-WELL NO.
11-003117

LEGAL DESCRIPTION
SW SW SE 35 03N 02ECM

COUNTY
CIMARRON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	209	104-209	500 UMHOS/CM	332 MG/L	292 MG/L	7.8 STD UNIT
87/07/07	209	104-209	410 UMHOS/CM	341 MG/L	222 MG/L	7.5 STD UNIT
88/08/17	209	104-209	475 UMHOS/CM	334 MG/L	220 MG/L	7.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	241.0 MG/L	10 UG/L	60 UG/L	5 UG/L	37 MG/L	21 MG/L
87/07/07	256.0 MG/L	10 UG/L	51 UG/L	5 UG/L	37 MG/L	16 MG/L
88/08/17	238.0 MG/L	10 UG/L	55 UG/L	5 UG/L	34 MG/L	18 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	1.79 MG/L	1794 UG/L	73 UG/L	29 MG/L
87/07/07	10 UG/L	10 UG/L	1.62 MG/L	149 UG/L	45 UG/L	30 MG/L
88/08/17	10 UG/L	10 UG/L	1.64 MG/L	72 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	17 UG/L	0.5 MG/L	5 UG/L	44 MG/L	60 MG/L	754 UG/L
87/07/07	13 UG/L	0.5 MG/L	5 UG/L	27 MG/L	65 MG/L	288 UG/L
88/08/17	10 UG/L	0.5 MG/L	5 UG/L	41 MG/L	55 MG/L	83 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000098

LEGAL DESCRIPTION
SE SE NW 11 03N 03ECM

COUNTY
CIMARRON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/06	250	150-250	600 UMHOS/CM	455 MG/L	337 MG/L	7.3 STD UNIT
87/07/07	250	150-250	600 UMHOS/CM	475 MG/L	312 MG/L	7.3 STD UNIT
88/08/17	250	150-250	650 UMHOS/CM	455 MG/L	316 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/06	225.0 MG/L	10 UG/L	56 UG/L	5 UG/L	61 MG/L	60 MG/L
87/07/07	225.0 MG/L	10 UG/L	51 UG/L	5 UG/L	61 MG/L	54 MG/L
88/08/17	227.0 MG/L	10 UG/L	52 UG/L	5 UG/L	57 MG/L	56 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/06	10 UG/L	10 UG/L	0.99 MG/L	370 UG/L	45 UG/L	36 MG/L
87/07/07	10 UG/L	10 UG/L	0.99 MG/L	109 UG/L	45 UG/L	37 MG/L
88/08/17	10 UG/L	10 UG/L	1.00 MG/L	28 UG/L	45 UG/L	35 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/06	10 UG/L	5.2 MG/L	5 UG/L	35 MG/L	67 MG/L	5 UG/L
87/07/07	10 UG/L	6.0 MG/L	5 UG/L	27 MG/L	73 MG/L	126 UG/L
88/08/17	10 UG/L	5.7 MG/L	5 UG/L	29 MG/L	64 MG/L	19 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000099

LEGAL DESCRIPTION
NE SE SW 11 03N 05ECM

COUNTY
CIMARRON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	300	240-300	450 UMHOS/CM	320 MG/L	374 MG/L	7.4 STD UNIT
87/07/08	300	240-300	525 UMHOS/CM	333 MG/L	184 MG/L	6.7 STD UNIT
88/08/17	300	240-300	500 UMHOS/CM	352 MG/L	196 MG/L	7.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	218.0 MG/L	10 UG/L	46 UG/L	5 UG/L	26 MG/L	18 MG/L
87/07/08	208.0 MG/L	10 UG/L	40 UG/L	5 UG/L	27 MG/L	13 MG/L
88/08/17	214.0 MG/L	10 UG/L	33 UG/L	5 UG/L	26 MG/L	16 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	3.53 MG/L	72 UG/L	45 UG/L	26 MG/L
87/07/08	10 UG/L	10 UG/L	3.70 MG/L	64 UG/L	45 UG/L	27 MG/L
88/08/17	10 UG/L	10 UG/L	3.90 MG/L	42 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	2.0 MG/L	5 UG/L	46 MG/L	60 MG/L	120 UG/L
87/07/08	10 UG/L	2.6 MG/L	11 UG/L	49 MG/L	58 MG/L	126 UG/L
88/08/17	10 UG/L	1.2 MG/L	5 UG/L	51 MG/L	65 MG/L	146 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003120

LEGAL DESCRIPTION
NW SW SE 23 03N 09ECM

COUNTY
CIMARRON

56

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	259	119-249	450 UMHOS/CM	311 MG/L	243 MG/L	7.5 STD UNIT

86/08/05	ALKALINITY, TOTAL 203.0 MG/L	ARSENIC 10 UG/L	BARIUM 95 UG/L	CADMIUM 5 UG/L	CALCIUM 41 MG/L	CHLORIDE 22 MG/L
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86/08/05	CHROMIUM 15 UG/L	COPPER 30 UG/L	FLUORIDE 1.61 MG/L	IRON 78 UG/L	LEAD 45 UG/L	MAGNESIUM 21 MG/L
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86/08/05	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 2.2 MG/L	SELENIUM 10 UG/L	SODIUM 22 MG/L	SULFATE 28 MG/L	ZINC 5 UG/L
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OGALLALA FORMATION

AQUIFER-WELL NO.
11-000137

LEGAL DESCRIPTION
SE NE SE 34 04N 04ECM

COUNTY
CIMARRON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/06	243	140-240	375 UMHOS/CM	268 MG/L	290 MG/L	7.7 STD UNIT
87/07/08	243	140-240	360 UMHOS/CM	305 MG/L	208 MG/L	7.0 STD UNIT
88/08/17	243	140-240	950 UMHOS/CM	297 MG/L	214 MG/L	7.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/06	181.0 MG/L	10 UG/L	51 UG/L	5 UG/L	34 MG/L	23 MG/L
87/07/08	209.0 MG/L	10 UG/L	51 UG/L	5 UG/L	35 MG/L	19 MG/L
88/08/17	172.0 MG/L	10 UG/L	55 UG/L	5 UG/L	33 MG/L	18 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/06	10 UG/L	10 UG/L	1.82 MG/L	27 UG/L	45 UG/L	28 MG/L
87/07/08	10 UG/L	23 UG/L	1.96 MG/L	25 UG/L	45 UG/L	29 MG/L
88/08/17	10 UG/L	10 UG/L	1.92 MG/L	252 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/06	10 UG/L	1.4 MG/L	5 UG/L	19 MG/L	55 MG/L	5 UG/L
87/07/08	10 UG/L	1.7 MG/L	5 UG/L	16 MG/L	52 MG/L	5 UG/L
88/08/17	10 UG/L	1.1 MG/L	5 UG/L	20 MG/L	51 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003010

LEGAL DESCRIPTION
SW SW SE 15 04N 07ECM

COUNTY
CIMARRON

58

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF (FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/20	180	158-170	325 UMHOS/CM	229 MG/L	200 MG/L	7.4 STD UNIT

86/08/20	ALKALINITY, TOTAL 212.0 MG/L	ARSENIC 10 UG/L	BARIUM 426 UG/L	CADMIUM 5 UG/L	CALCIUM 49 MG/L	CHLORIDE 10 MG/L
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86/08/20	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.24 MG/L	IRON 28 UG/L	LEAD 45 UG/L	MAGNESIUM 20 MG/L
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86/08/20	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 0.6 MG/L	SELENIUM 5 UG/L	SODIUM 18 MG/L	SULFATE 20 MG/L	ZINC 5 UG/L
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GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003022LEGAL DESCRIPTION
NE NE NE 23 07N 01E1MCOUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/24	85	75-85	460 UMHOS/CM	379 MG/L	290 MG/L	7.2 STD UNIT
87/08/19	85	75-85	500 UMHOS/CM	314 MG/L	255 MG/L	7.4 STD UNIT
88/07/07	85	75-85	600 UMHOS/CM	386 MG/L	326 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/24	301.0 MG/L	10 UG/L	373 UG/L	5 UG/L	75 MG/L	13 MG/L
87/08/19	244.0 MG/L	10 UG/L	260 UG/L	5 UG/L	64 MG/L	10 MG/L
88/07/07	312.0 MG/L	10 UG/L	370 UG/L	5 UG/L	77 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/24	10 UG/L	10 UG/L	0.46 MG/L	18 UG/L	45 UG/L	30 MG/L
87/08/19	10 UG/L	10 UG/L	0.42 MG/L	19 UG/L	45 UG/L	23 MG/L
88/07/07	10 UG/L	10 UG/L	0.38 MG/L	98 UG/L	45 UG/L	29 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/24	10 UG/L	2.2 MG/L	5 UG/L	22 MG/L	34 MG/L	5 UG/L
87/08/19	10 UG/L	2.0 MG/L	5 UG/L	15 MG/L	20 MG/L	8 UG/L
88/07/07	10 UG/L	2.9 MG/L	5 UG/L	20 MG/L	20 MG/L	12 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CANADIAN RIVER

AQUIFER-WELL NO.
06-000179

LEGAL DESCRIPTION
SE SE NE 03 07N 02W1M

COUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/20	106	86-106	1200 UMHOS/CM	895 MG/L	509 MG/L	6.1 STD UNIT
87/08/19	106	86-106	580 UMHOS/CM	347 MG/L	320 MG/L	7.3 STD UNIT
88/07/07	106	86-106	550 UMHOS/CM	332 MG/L	295 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/20	46.0 MG/L	10 UG/L	253 UG/L	5 UG/L	111 MG/L	179 MG/L
87/08/19	271.0 MG/L	10 UG/L	673 UG/L	5 UG/L	70 MG/L	10 MG/L
88/07/07	304.0 MG/L	10 UG/L	691 UG/L	5 UG/L	71 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/20	10 UG/L	10 UG/L	0.18 MG/L	51 UG/L	45 UG/L	60 MG/L
87/08/19	10 UG/L	10 UG/L	0.19 MG/L	18 UG/L	45 UG/L	34 MG/L
88/07/07	10 UG/L	10 UG/L	0.21 MG/L	11 UG/L	45 UG/L	35 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/20	10 UG/L	93.5 MG/L	5 UG/L	69 MG/L	75 MG/L	5 UG/L
87/08/19	10 UG/L	0.5 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
88/07/07	10 UG/L	0.5 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003034

LEGAL DESCRIPTION
NW NW NW 34 08N 01E1M

COUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/20	100	60-97	425 UMHOS/CM	278 MG/L	282 MG/L	6.9 STD UNIT
87/08/19	100	60-97	550 UMHOS/CM	308 MG/L	273 MG/L	6.8 STD UNIT
88/07/07	100	60-97	500 UMHOS/CM	301 MG/L	283 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/20	244.0 MG/L	10 UG/L	601 UG/L	5 UG/L	60 MG/L	14 MG/L
87/08/19	239.0 MG/L	10 UG/L	569 UG/L	5 UG/L	55 MG/L	12 MG/L
88/07/07	268.0 MG/L	10 UG/L	587 UG/L	8 UG/L	55 MG/L	14 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/20	10 UG/L	10 UG/L	0.27 MG/L	235 UG/L	45 UG/L	32 MG/L
87/08/19	10 UG/L	28 UG/L	0.18 MG/L	24 UG/L	45 UG/L	33 MG/L
88/07/07	10 UG/L	10 UG/L	0.19 MG/L	31 UG/L	45 UG/L	33 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/20	10 UG/L	1.6 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
87/08/19	10 UG/L	1.6 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
88/07/07	10 UG/L	1.8 MG/L	5 UG/L	10 MG/L	20 MG/L	28 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003024

LEGAL DESCRIPTION
SW SW SW 03 08N 01WIM

COUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/20	120	80-115	275 UMHOS/CM	194 MG/L	171 MG/L	6.8 STD UNIT
87/08/19	120	80-115	350 UMHOS/CM	213 MG/L	161 MG/L	6.5 STD UNIT
88/07/07	120	80-115	350 UMHOS/CM	228 MG/L	181 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/20	133.0 MG/L	10 UG/L	565 UG/L	5 UG/L	39 MG/L	15 MG/L
87/08/19	124.0 MG/L	10 UG/L	568 UG/L	5 UG/L	33 MG/L	14 MG/L
88/07/07	148.0 MG/L	10 UG/L	550 UG/L	5 UG/L	36 MG/L	16 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/20	10 UG/L	10 UG/L	0.18 MG/L	559 UG/L	45 UG/L	21 MG/L
87/08/19	10 UG/L	10 UG/L	0.10 MG/L	48 UG/L	45 UG/L	18 MG/L
88/07/07	10 UG/L	10 UG/L	0.10 MG/L	36 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/20	27 UG/L	4.5 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
87/08/19	10 UG/L	3.3 MG/L	5 UG/L	10 MG/L	20 MG/L	62 UG/L
88/07/07	10 UG/L	4.7 MG/L	5 UG/L	10 MG/L	20 MG/L	173 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003025

LEGAL DESCRIPTION
NW NW NW 09 09N 01WIM

COUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/21	290	220-285	675 UMHOS/CM	475 MG/L	26 MG/L	8.3 STD UNIT
87/08/25	290	220-285	900 UMHOS/CM	466 MG/L	26 MG/L	7.7 STD UNIT
88/07/07	290	220-285	850 UMHOS/CM	497 MG/L	18 MG/L	8.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/21	254.0 MG/L	74 UG/L	36 UG/L	5 UG/L	6 MG/L	29 MG/L
87/08/25	275.0 MG/L	104 UG/L	29 UG/L	5 UG/L	6 MG/L	26 MG/L
88/07/07	262.0 MG/L	32 UG/L	31 UG/L	5 UG/L	6 MG/L	28 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/21	15 UG/L	10 UG/L	0.53 MG/L	103 UG/L	45 UG/L	3 MG/L
87/08/25	19 UG/L	10 UG/L	0.41 MG/L	20 UG/L	45 UG/L	3 MG/L
88/07/07	18 UG/L	10 UG/L	0.46 MG/L	25 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/21	10 UG/L	1.7 MG/L	34 UG/L	185 MG/L	95 MG/L	5 UG/L
87/08/25	10 UG/L	2.0 MG/L	30 UG/L	175 MG/L	95 MG/L	56 UG/L
88/07/07	10 UG/L	0.5 MG/L	108 UG/L	171 MG/L	100 MG/L	52 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003028

LEGAL DESCRIPTION
NW NE NE 01 09N 03WIM

COUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/20	140	120-140	150 UMHOS/CM	124 MG/L	97 MG/L	6.3 STD UNIT
87/08/25	140	120-140	275 UMHOS/CM	173 MG/L	144 MG/L	6.4 STD UNIT
88/07/07	140	120-140	250 UMHOS/CM	172 MG/L	142 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/20	70.0 MG/L	10 UG/L	417 UG/L	5 UG/L	22 MG/L	16 MG/L
87/08/25	129.0 MG/L	10 UG/L	410 UG/L	5 UG/L	30 MG/L	10 MG/L
88/07/07	117.0 MG/L	10 UG/L	405 UG/L	5 UG/L	29 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/20	10 UG/L	1752 UG/L	0.17 MG/L	167 UG/L	45 UG/L	10 MG/L
87/08/25	23 UG/L	42 UG/L	0.15 MG/L	212 UG/L	45 UG/L	15 MG/L
88/07/07	10 UG/L	18 UG/L	0.15 MG/L	25 UG/L	45 UG/L	15 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/20	10 UG/L	1.7 MG/L	5 UG/L	10 MG/L	20 MG/L	417 UG/L
87/08/25	10 UG/L	1.3 MG/L	5 UG/L	10 MG/L	22 MG/L	51 UG/L
88/07/07	10 UG/L	1.2 MG/L	5 UG/L	10 MG/L	20 MG/L	47 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003026

LEGAL DESCRIPTION
SE NE NE 29 10N 01E1M

COUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/20	260	227-260	800 UMHOS/CM	500 MG/L	410 MG/L	7.3 STD UNIT
87/08/19	260	227-260	910 UMHOS/CM	541 MG/L	408 MG/L	8.0 STD UNIT
88/07/07	260	227-260	950 UMHOS/CM	525 MG/L	383 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/20	475.0 MG/L	10 UG/L	259 UG/L	5 UG/L	71 MG/L	20 MG/L
87/08/19	411.0 MG/L	10 UG/L	237 UG/L	5 UG/L	69 MG/L	15 MG/L
88/07/07	466.0 MG/L	10 UG/L	265 UG/L	5 UG/L	68 MG/L	16 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/20	10 UG/L	10 UG/L	0.24 MG/L	66 UG/L	45 UG/L	56 MG/L
87/08/19	10 UG/L	10 UG/L	0.17 MG/L	15 UG/L	45 UG/L	55 MG/L
88/07/07	10 UG/L	10 UG/L	0.18 MG/L	14 UG/L	45 UG/L	53 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/20	10 UG/L	0.8 MG/L	5 UG/L	68 MG/L	20 MG/L	5 UG/L
87/08/19	10 UG/L	0.5 MG/L	10 UG/L	65 MG/L	20 MG/L	9 UG/L
88/07/07	10 UG/L	0.5 MG/L	5 UG/L	57 MG/L	20 MG/L	33 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003027

LEGAL DESCRIPTION
SE NW NW 28 10N 02WIM

COUNTY
CLEVELAND

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/05	2243	1750-2240	2990 UMHOS/CM	1691 MG/L	26 MG/L	8.3 STD UNIT
87/07/09	2243	1750-2240	1250 UMHOS/CM	1020 MG/L	274 MG/L	6.7 STD UNIT
88/08/01	2243	1750-2240	2500 UMHOS/CM	1828 MG/L	30 MG/L	7.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/05	356.0 MG/L	10 UG/L	210 UG/L	20 UG/L	4 MG/L	506 MG/L
87/07/09	472.0 MG/L	10 UG/L	104 UG/L	5 UG/L	76 MG/L	206 MG/L
88/08/01	263.0 MG/L	10 UG/L	32 UG/L	5 UG/L	7 MG/L	694 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/05	100 UG/L	40 UG/L	12.80 MG/L	110 UG/L	200 UG/L	2 MG/L
87/07/09	10 UG/L	10 UG/L	3.22 MG/L	207 UG/L	45 UG/L	19 MG/L
88/08/01	10 UG/L	10 UG/L	11.20 MG/L	376 UG/L	45 UG/L	2 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/05	20 UG/L	0.5 MG/L	5 UG/L	650 MG/L	235 MG/L	40 UG/L
87/07/09	10 UG/L	1.7 MG/L	5 UG/L	230 MG/L	132 MG/L	21 UG/L
88/08/01	10 UG/L	0.5 MG/L	5 UG/L	616 MG/L	187 MG/L	5 UG/L

ARBUCKLE-TIMBERED HILLS GROUP

AQUIFER-WELL NO.
20-003010

LEGAL DESCRIPTION
NE NE SE 07 01S 11WIM

COUNTY
COMANCHE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/09	715	350-715	500 UMHOS/CM	309 MG/L	34 MG/L	8.2 STD UNIT
88/07/29	715	350-715	500 UMHOS/CM	323 MG/L	26 MG/L	8.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/09	136.0 MG/L	10 UG/L	113 UG/L	5 UG/L	8 MG/L	88 MG/L
88/07/29	129.0 MG/L	10 UG/L	117 UG/L	5 UG/L	7 MG/L	84 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/09	10 UG/L	10 UG/L	2.44 MG/L	27 UG/L	45 UG/L	3 MG/L
88/07/29	10 UG/L	10 UG/L	2.60 MG/L	15 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/09	10 UG/L	0.5 MG/L	5 UG/L	98 MG/L	26 MG/L	5 UG/L
88/07/29	10 UG/L	0.5 MG/L	5 UG/L	106 MG/L	20 MG/L	5 UG/L

ARBUCKLE-TIMBERED HILLS GROUP

AQUIFER-WELL NO.
20-003013

LEGAL DESCRIPTION
SW SW SW 24 02N 14W1M

COUNTY
COMANCHE

68

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/11	618	498-618	1000 UMHOS/CM	721 MG/L	23 MG/L	8.8 STD UNIT
87/07/09	618	498-618	710 UMHOS/CM	574 MG/L	10 MG/L	8.7 STD UNIT
88/07/13	618	498-618		532 MG/L	10 MG/L	8.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/11	318.0 MG/L	81 UG/L	10 UG/L	5 UG/L	14 MG/L	123 MG/L
87/07/09	323.0 MG/L	10 UG/L	10 UG/L	5 UG/L	2 MG/L	74 MG/L
88/07/13	285.0 MG/L	12 UG/L	14 UG/L	5 UG/L	1 MG/L	60 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/11	10 UG/L	97 UG/L	7.84 MG/L	4200 UG/L	45 UG/L	6 MG/L
87/07/09	10 UG/L	10 UG/L	7.80 MG/L	54 UG/L	45 UG/L	1 MG/L
88/07/13	10 UG/L	10 UG/L	8.00 MG/L	181 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/11	70 UG/L	0.5 MG/L	5 UG/L	264 MG/L	119 MG/L	5 UG/L
87/07/09	10 UG/L	0.5 MG/L	5 UG/L	213 MG/L	80 MG/L	5 UG/L
88/07/13	10 UG/L	0.5 MG/L	5 UG/L	197 MG/L	67 MG/L	5 UG/L

ARBUCKLE-TIMBERED HILLS GROUP

AQUIFER-WELL NO.
20-003011

LEGAL DESCRIPTION
SE NW NW 26 02N 15W1M

COUNTY
COMANCHE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/15	96	76-96	175 UMHOS/CM	117 MG/L	90 MG/L	6.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/15	33.0 MG/L	10 UG/L	36 UG/L	5 UG/L	10 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/15	10 UG/L	12 UG/L	0.10 MG/L	160 UG/L	45 UG/L	6 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/15	199 UG/L	2.8 MG/L	5 UG/L	10 MG/L	20 MG/L	47 UG/L

VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003024

LEGAL DESCRIPTION
NE NE NE 05 16N 08E1M

COUNTY
CREEK

70

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
88/07/27	237	55-235	750 UMHOS/CM	281 MG/L	217 MG/L	7.2 STD UNIT

88/07/27	ALKALINITY, TOTAL 246.0 MG/L	ARSENIC 10 UG/L	BARIUM 327 UG/L	CADMIUM 5 UG/L	CALCIUM 45 MG/L	CHLORIDE 10 MG/L
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88/07/27	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.22 MG/L	IRON 17 UG/L	LEAD 45 UG/L	MAGNESIUM 24 MG/L
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88/07/27	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 0.9 MG/L	SELENIUM 5 UG/L	SODIUM 20 MG/L	SULFATE 22 MG/L	ZINC 10 UG/L
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VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003027

LEGAL DESCRIPTION
NE SE SW 13 16N 08E1M

COUNTY
CREEK

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	360	260-360	425 UMHS/CM	370 MG/L	257 MG/L	6.8 STD UNIT
88/07/22	360	260-360	450 UMHS/CM	366 MG/L	286 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/06	230.0 MG/L	10 UG/L	155 UG/L	5 UG/L	94 MG/L	49 MG/L
88/07/22	193.0 MG/L	10 UG/L	154 UG/L	5 UG/L	95 MG/L	42 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/06	10 UG/L	10 UG/L	0.15 MG/L	24 UG/L	45 UG/L	5 MG/L
88/07/22	10 UG/L	10 UG/L	0.17 MG/L	27 UG/L	45 UG/L	5 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/06	10 UG/L	0.5 MG/L	5 UG/L	29 MG/L	20 MG/L	543 UG/L
88/07/22	10 UG/L	0.5 MG/L	5 UG/L	24 MG/L	20 MG/L	70 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-003208

LEGAL DESCRIPTION
SW NW SW 26 12N 14W1M

COUNTY
CUSTER

72

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	460	40-460	2200 UMHOS/CM	2886 MG/L	1633 MG/L	7.6 STD UNIT
88/07/22	460	40-460	4000 UMHOS/CM	4265 MG/L	2277 MG/L	7.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/06	154.0 MG/L	10 UG/L	16 UG/L	5 UG/L	453 MG/L	54 MG/L
88/07/22	283.0 MG/L	13 UG/L	22 UG/L	5 UG/L	496 MG/L	169 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/06	10 UG/L	10 UG/L	0.47 MG/L	644 UG/L	45 UG/L	85 MG/L
88/07/22	10 UG/L	19 UG/L	0.84 MG/L	25290 UG/L	45 UG/L	192 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/06	13 UG/L	4.7 MG/L	5 UG/L	115 MG/L	1523 MG/L	198 UG/L
88/07/22	173 UG/L	17.2 MG/L	5 UG/L	298 MG/L	2848 MG/L	490 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-003205

LEGAL DESCRIPTION
SW SW SW 01 13N 16WIM

COUNTY
CUSTER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	280	180-280	950 UMHOS/CM	1089 MG/L	687 MG/L	7.1 STD UNIT
87/08/06	280	180-280	1100 UMHOS/CM	957 MG/L	678 MG/L	7.8 STD UNIT
88/07/14	280	180-280	875 UMHOS/CM	741 MG/L	302 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	220.0 MG/L	10 UG/L	30 UG/L	5 UG/L	198 MG/L	41 MG/L
87/08/06	249.0 MG/L	10 UG/L	28 UG/L	5 UG/L	179 MG/L	49 MG/L
88/07/14	299.0 MG/L	10 UG/L	40 UG/L	5 UG/L	127 MG/L	34 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.54 MG/L	316 UG/L	45 UG/L	54 MG/L
87/08/06	10 UG/L	10 UG/L	0.52 MG/L	73 UG/L	45 UG/L	55 MG/L
88/07/14	10 UG/L	10 UG/L	0.61 MG/L	147 UG/L	45 UG/L	49 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	10.1 MG/L	5 UG/L	24 MG/L	489 MG/L	28 UG/L
87/08/06	10 UG/L	13.5 MG/L	5 UG/L	11 MG/L	385 MG/L	7 UG/L
88/07/14	10 UG/L	11.5 MG/L	5 UG/L	21 MG/L	215 MG/L	11 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-000523

LEGAL DESCRIPTION
SW SW SW 12 14N 19W1M

COUNTY
CUSTER

74

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	280	160-280	2400 UMHOS/CM	2636 MG/L	1776 MG/L	7.7 STD UNIT
88/07/14	280	160-280	2500 UMHOS/CM	2535 MG/L	899 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/06	255.0 MG/L	10 UG/L	12 UG/L	5 UG/L	503 MG/L	122 MG/L
88/07/14	283.0 MG/L	10 UG/L	12 UG/L	5 UG/L	476 MG/L	115 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/06	10 UG/L	61 UG/L	0.26 MG/L	1889 UG/L	45 UG/L	86 MG/L
88/07/14	10 UG/L	44 UG/L	0.27 MG/L	706 UG/L	45 UG/L	71 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/06	12 UG/L	4.5 MG/L	5 UG/L	92 MG/L	1238 MG/L	52 UG/L
88/07/14	10 UG/L	7.2 MG/L	5 UG/L	75 MG/L	1419 MG/L	11 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-003204

LEGAL DESCRIPTION
SW NE NW 36 15N 16W1M

COUNTY
CUSTER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/25	1442	385-1442	375 UMHOS/CM	213 MG/L	108 MG/L	7.9 STD UNIT
87/07/16	1442	385-1442	600 UMHOS/CM	228 MG/L	112 MG/L	7.4 STD UNIT
88/07/12	1442	385-1442	850 UMHOS/CM	225 MG/L	95 MG/L	7.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/25	134.0 MG/L	10 UG/L	22 UG/L	5 UG/L	20 MG/L	44 MG/L
87/07/16	129.0 MG/L	10 UG/L	23 UG/L	5 UG/L	21 MG/L	44 MG/L
88/07/12	121.0 MG/L	10 UG/L	38 UG/L	5 UG/L	21 MG/L	40 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/25	14 UG/L	11 UG/L	1.14 MG/L	188 UG/L	45 UG/L	8 MG/L
87/07/16	10 UG/L	35 UG/L	1.03 MG/L	930 UG/L	45 UG/L	9 MG/L
88/07/12	10 UG/L	48 UG/L	1.08 MG/L	3733 UG/L	45 UG/L	8 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/25	10 UG/L	0.5 MG/L	5 UG/L	48 MG/L	20 MG/L	5 UG/L
87/07/16	17 UG/L	0.5 MG/L	5 UG/L	45 MG/L	22 MG/L	112 UG/L
88/07/12	43 UG/L	0.5 MG/L	5 UG/L	48 MG/L	20 MG/L	7 UG/L

ROUBIDOUX FORMATION

AQUIFER-WELL NO.
21-003006

LEGAL DESCRIPTION
NE NW NW 11 22N 23E1M

COUNTY
DELAWARE

76

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	70	55-70	1100 UMHOS/CM	695 MG/L	467 MG/L	7.1 STD UNIT
87/08/06	70	55-70	900 UMHOS/CM	744 MG/L	500 MG/L	7.4 STD UNIT
88/07/08	70	55-70	850 UMHOS/CM	670 MG/L	447 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	267.0 MG/L	10 UG/L	54 UG/L	5 UG/L	106 MG/L	41 MG/L
87/08/06	282.0 MG/L	10 UG/L	62 UG/L	5 UG/L	105 MG/L	40 MG/L
88/07/08	301.0 MG/L	10 UG/L	58 UG/L	5 UG/L	99 MG/L	38 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.48 MG/L	41 UG/L	45 UG/L	53 MG/L
87/08/06	10 UG/L	10 UG/L	0.43 MG/L	10 UG/L	45 UG/L	56 MG/L
88/07/08	10 UG/L	10 UG/L	0.45 MG/L	63 UG/L	45 UG/L	50 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	23.7 MG/L	5 UG/L	35 MG/L	154 MG/L	77 UG/L
87/08/06	10 UG/L	19.3 MG/L	7 UG/L	26 MG/L	158 MG/L	28 UG/L
88/07/08	10 UG/L	22.1 MG/L	5 UG/L	37 MG/L	137 MG/L	34 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CANADIAN RIVER

AQUIFER-WELL NO.
06-003000

LEGAL DESCRIPTION
SE NW NW 13 18N 17WIM

COUNTY
DEWEY

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	55	15-55	3000 UMHOS/CM	2732 MG/L	1735 MG/L	6.9 STD UNIT
88/07/08	55	15-55	2020 UMHOS/CM	1722 MG/L	528 MG/L	8.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/06	228.0 MG/L	10 UG/L	16 UG/L	5 UG/L	427 MG/L	137 MG/L
88/07/08	222.0 MG/L	10 UG/L	29 UG/L	5 UG/L	299 MG/L	39 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/06	10 UG/L	10 UG/L	0.49 MG/L	130 UG/L	45 UG/L	142 MG/L
88/07/08	20 UG/L	10 UG/L	0.42 MG/L	19 UG/L	45 UG/L	60 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/06	10 UG/L	10.4 MG/L	5 UG/L	100 MG/L	1305 MG/L	129 UG/L
88/07/08	10 UG/L	6.2 MG/L	7 UG/L	65 MG/L	813 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CANADIAN RIVER

AQUIFER-WELL NO.
06-003019

LEGAL DESCRIPTION
SE NE NE 20 18N 20WIM

COUNTY
DEWEY

78

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/22	350	140-350	275 UMHOS/CM	225 MG/L	139 MG/L	7.4 STD UNIT
87/07/30	350	140-350	300 UMHOS/CM	234 MG/L	184 MG/L	7.3 STD UNIT
88/07/11	350	140-350	300 UMHOS/CM	221 MG/L	76 MG/L	7.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/22	181.0 MG/L	10 UG/L	292 UG/L	5 UG/L	54 MG/L	10 MG/L
87/07/30	179.0 MG/L	10 UG/L	291 UG/L	5 UG/L	48 MG/L	10 MG/L
88/07/11	228.0 MG/L	10 UG/L	270 UG/L	5 UG/L	50 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/22	10 UG/L	10 UG/L	0.21 MG/L	16 UG/L	45 UG/L	6 MG/L
87/07/30	10 UG/L	10 UG/L	0.21 MG/L	14 UG/L	45 UG/L	7 MG/L
88/07/11	10 UG/L	10 UG/L	0.15 MG/L	12 UG/L	45 UG/L	5 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/22	39 UG/L	0.6 MG/L	5 UG/L	21 MG/L	20 MG/L	5 UG/L
87/07/30	10 UG/L	1.1 MG/L	5 UG/L	33 MG/L	20 MG/L	101 UG/L
88/07/11	10 UG/L	0.5 MG/L	5 UG/L	19 MG/L	20 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003104

LEGAL DESCRIPTION
SW SW NE 04 19N 23WIM

COUNTY
ELLIS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/22	280	220-280	310 UMHOS/CM	253 MG/L	165 MG/L	7.3 STD UNIT
87/07/30	280	220-280	350 UMHOS/CM	286 MG/L	180 MG/L	7.5 STD UNIT
88/07/11	280	220-280	325 UMHOS/CM	252 MG/L	95 MG/L	7.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/22	174.0 MG/L	10 UG/L	238 UG/L	5 UG/L	60 MG/L	14 MG/L
87/07/30	169.0 MG/L	10 UG/L	226 UG/L	5 UG/L	59 MG/L	15 MG/L
88/07/11	231.0 MG/L	10 UG/L	230 UG/L	5 UG/L	58 MG/L	15 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/22	10 UG/L	10 UG/L	0.22 MG/L	283 UG/L	45 UG/L	8 MG/L
87/07/30	10 UG/L	10 UG/L	0.21 MG/L	19 UG/L	45 UG/L	8 MG/L
88/07/11	10 UG/L	10 UG/L	0.15 MG/L	44 UG/L	45 UG/L	8 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/22	10 UG/L	1.8 MG/L	5 UG/L	13 MG/L	20 MG/L	5 UG/L
87/07/30	10 UG/L	2.4 MG/L	5 UG/L	13 MG/L	20 MG/L	40 UG/L
88/07/11	10 UG/L	3.7 MG/L	5 UG/L	13 MG/L	20 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000469

LEGAL DESCRIPTION
NE SW SW 09 19N 24W1M

COUNTY
ELLIS

80

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/22	301	130-220	300 UMHOS/CM	242 MG/L	161 MG/L	7.4 STD UNIT

86/07/22	ALKALINITY, TOTAL 188.0 MG/L	ARSENIC 10 UG/L	BARIUM 334 UG/L	CADMIUM 5 UG/L	CALCIUM 58 MG/L	CHLORIDE 10 MG/L
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86/07/22	CHROMIUM 10 UG/L	COPPER 4 UG/L	FLUORIDE 0.49 MG/L	IRON 5366 UG/L	LEAD 45 UG/L	MAGNESIUM 9 MG/L
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86/07/22	MANGANESE, TOTAL 20 UG/L	NITRITE-NITRATE AS N 1.0 MG/L	SELENIUM 5 UG/L	SODIUM 13 MG/L	SULFATE 20 MG/L	ZINC 1522 UG/L
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OGALLALA FORMATION

AQUIFER-WELL NO.
11-000435LEGAL DESCRIPTION
SW NE NE 30 21N 25W1MCOUNTY
ELLIS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/30	200	110-200	425 UMHOS/CM	392 MG/L	269 MG/L	8.0 STD UNIT
88/07/13	200	110-200	350 UMHOS/CM	288 MG/L	109 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/30	209.0 MG/L	10 UG/L	48 UG/L	5 UG/L	76 MG/L	10 MG/L
88/07/13	271.0 MG/L	10 UG/L	221 UG/L	5 UG/L	66 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/30	10 UG/L	10 UG/L	0.40 MG/L	403 UG/L	45 UG/L	18 MG/L
88/07/13	10 UG/L	34 UG/L	0.39 MG/L	1019 UG/L	45 UG/L	9 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/30	10 UG/L	1.6 MG/L	5 UG/L	28 MG/L	71 MG/L	48 UG/L
88/07/13	10 UG/L	3.4 MG/L	5 UG/L	23 MG/L	20 MG/L	222 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003122

LEGAL DESCRIPTION
SE SW SW 36 22N 23W1M

COUNTY
ELLIS

82

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/22	480	126-480	500 UMHOS/CM	406 MG/L	276 MG/L	7.1 STD UNIT
87/07/30	480	126-480	375 UMHOS/CM	348 MG/L	226 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/22	235.0 MG/L	10 UG/L	536 UG/L	5 UG/L	117 MG/L	24 MG/L
87/07/30	200.0 MG/L	10 UG/L	245 UG/L	5 UG/L	64 MG/L	19 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/22	10 UG/L	10 UG/L	0.31 MG/L	157 UG/L	45 UG/L	8 MG/L
87/07/30	10 UG/L	10 UG/L	0.45 MG/L	10 UG/L	45 UG/L	11 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/22	10 UG/L	8.4 MG/L	5 UG/L	11 MG/L	49 MG/L	5 UG/L
87/07/30	10 UG/L	4.0 MG/L	5 UG/L	18 MG/L	20 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003107

LEGAL DESCRIPTION
NW NE NE 30 23N 25WIM

COUNTY
ELLIS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/23	56	46-56	1100 UMHOS/CM	608 MG/L	286 MG/L	7.5 STD UNIT

86/07/23	ALKALINITY, TOTAL 198.0 MG/L	ARSENIC 10 UG/L	BARIUM 359 UG/L	CADMIUM 5 UG/L	CALCIUM 60 MG/L	CHLORIDE 207 MG/L
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86/07/23	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.42 MG/L	IRON 868 UG/L	LEAD 45 UG/L	MAGNESIUM 36 MG/L
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86/07/23	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 3.8 MG/L	SELENIUM 5 UG/L	SODIUM 107 MG/L	SULFATE 43 MG/L	ZINC 5 UG/L
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ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003036

LEGAL DESCRIPTION
NW NW SW 19 21N 08W1M

COUNTY
GARFIELD

84

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/25	105	73-105	700 UMHOS/CM	863 MG/L	231 MG/L	8.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/25	182.0 MG/L	10 UG/L	233 UG/L	5 UG/L	40 MG/L	145 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/25	10 UG/L	17 UG/L	0.33 MG/L	58 UG/L	45 UG/L	29 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/25	10 UG/L	6.7 MG/L	5 UG/L	111 MG/L	273 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003044

LEGAL DESCRIPTION
NW SW SW 30 21N 08W1M

COUNTY
GARFIELD

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/23	60	50-60	560 UMHOS/CM	313 MG/L	173 MG/L	7.5 STD UNIT
87/08/19	60	50-60	600 UMHOS/CM	432 MG/L	251 MG/L	7.2 STD UNIT
88/07/27	60	50-60	510 UMHOS/CM	396 MG/L	261 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/23	158.0 MG/L	10 UG/L	317 UG/L	5 UG/L	59 MG/L	42 MG/L
87/08/19	208.0 MG/L	10 UG/L	307 UG/L	5 UG/L	79 MG/L	47 MG/L
88/07/27	255.0 MG/L	10 UG/L	333 UG/L	5 UG/L	77 MG/L	39 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/23	10 UG/L	10 UG/L	0.32 MG/L	130 UG/L	45 UG/L	9 MG/L
87/08/19	10 UG/L	10 UG/L	0.19 MG/L	44 UG/L	45 UG/L	10 MG/L
88/07/27	10 UG/L	10 UG/L	0.25 MG/L	28 UG/L	45 UG/L	10 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/23	10 UG/L	5.6 MG/L	5 UG/L	33 MG/L	26 MG/L	18 UG/L
87/08/19	10 UG/L	12.8 MG/L	5 UG/L	42 MG/L	20 MG/L	859 UG/L
88/07/27	10 UG/L	12.2 MG/L	5 UG/L	37 MG/L	49 MG/L	176 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ENID ISOLATED TERRACE DEPOSITS

AQUIFER-WELL NO.

03-001320

LEGAL DESCRIPTION

NW NW NE 01 22N 07W1M

COUNTY

GARFIELD

86

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF (FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/23	57	47-57	475 UMHOS/CM	307 MG/L	157 MG/L	7.2 STD UNIT
87/08/19	57	47-57	540 UMHOS/CM	430 MG/L	218 MG/L	7.2 STD UNIT
88/07/27	57	47-57	550 UMHOS/CM	436 MG/L	248 MG/L	6.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/23	129.0 MG/L	10 UG/L	383 UG/L	5 UG/L	51 MG/L	37 MG/L
87/08/19	140.0 MG/L	10 UG/L	472 UG/L	5 UG/L	61 MG/L	81 MG/L
88/07/27	208.0 MG/L	10 UG/L	490 UG/L	5 UG/L	63 MG/L	87 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/23	10 UG/L	10 UG/L	0.29 MG/L	34 UG/L	45 UG/L	12 MG/L
87/08/19	10 UG/L	10 UG/L	0.18 MG/L	10 UG/L	45 UG/L	14 MG/L
88/07/27	10 UG/L	10 UG/L	0.22 MG/L	10 UG/L	45 UG/L	15 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/23	10 UG/L	9.3 MG/L	5 UG/L	33 MG/L	28 MG/L	5 UG/L
87/08/19	10 UG/L	11.5 MG/L	5 UG/L	42 MG/L	20 MG/L	5 UG/L
88/07/27	10 UG/L	11.5 MG/L	7 UG/L	45 MG/L	46 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ENID ISOLATED TERRACE DEPOSITS

AQUIFER-WELL NO.
03-001318

LEGAL DESCRIPTION
NE NE NE 22 23N 07W1M

COUNTY
GARFIELD

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	140	120-130	1500 UMHOS/CM	1298 MG/L	736 MG/L	6.9 STD UNIT
87/08/06	140	120-130	1500 UMHOS/CM	1095 MG/L	794 MG/L	7.4 STD UNIT
88/07/13	140	120-130	950 UMHOS/CM	554 MG/L	223 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	406.0 MG/L	10 UG/L	48 UG/L	5 UG/L	162 MG/L	68 MG/L
87/08/06	405.0 MG/L	10 UG/L	63 UG/L	5 UG/L	141 MG/L	45 MG/L
88/07/13	334.0 MG/L	10 UG/L	67 UG/L	5 UG/L	78 MG/L	13 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.36 MG/L	279 UG/L	45 UG/L	106 MG/L
87/08/06	10 UG/L	128 UG/L	0.20 MG/L	725 UG/L	45 UG/L	84 MG/L
88/07/13	10 UG/L	10 UG/L	0.27 MG/L	10 UG/L	45 UG/L	39 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	85 UG/L	0.5 MG/L	5 UG/L	98 MG/L	497 MG/L	70 UG/L
87/08/06	91 UG/L	0.5 MG/L	5 UG/L	64 MG/L	439 MG/L	12 UG/L
88/07/13	10 UG/L	1.1 MG/L	8 UG/L	42 MG/L	100 MG/L	19 UG/L

OSCAR FORMATION

AQUIFER-WELL NO.
17-003004

LEGAL DESCRIPTION
NE SE NW 05 01N 02W1M

COUNTY
GARVIN,

88

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	58	38-45	1000 UMHOS/CM	654 MG/L	496 MG/L	7.4 STD UNIT
88/07/13	58	38-45	1300 UMHOS/CM	767 MG/L	341 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/06	550.0 MG/L	10 UG/L	253 UG/L	5 UG/L	71 MG/L	31 MG/L
88/07/13	827.0 MG/L	10 UG/L	632 UG/L	5 UG/L	103 MG/L	21 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/06	10 UG/L	10 UG/L	0.49 MG/L	434 UG/L	45 UG/L	74 MG/L
88/07/13	10 UG/L	10 UG/L	0.38 MG/L	6638 UG/L	45 UG/L	72 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/06	393 UG/L	0.5 MG/L	5 UG/L	66 MG/L	60 MG/L	11 UG/L
88/07/13	782 UG/L	0.5 MG/L	5 UG/L	61 MG/L	42 MG/L	407 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE WASHITA RIVER

AQUIFER-WELL NO.
08-003020

LEGAL DESCRIPTION
SW SE SW 10 02N 01E1M

COUNTY
GARVIN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	63	45-55	1200 UMHOS/CM	785 MG/L	278 MG/L	6.8 STD UNIT
87/08/11	63	45-55	1200 UMHOS/CM	738 MG/L	251 MG/L	6.6 STD UNIT
88/07/13	63	45-55	1200 UMHOS/CM	664 MG/L	123 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	456.0 MG/L	26 UG/L	229 UG/L	5 UG/L	70 MG/L	158 MG/L
87/08/11	451.0 MG/L	11 UG/L	208 UG/L	5 UG/L	58 MG/L	132 MG/L
88/07/13	425.0 MG/L	10 UG/L	188 UG/L	5 UG/L	50 MG/L	100 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.37 MG/L	196 UG/L	45 UG/L	26 MG/L
87/08/11	10 UG/L	10 UG/L	0.30 MG/L	79 UG/L	45 UG/L	23 MG/L
88/07/13	10 UG/L	10 UG/L	0.31 MG/L	97 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	531 UG/L	1.0 MG/L	5 UG/L	215 MG/L	28 MG/L	8 UG/L
87/08/11	485 UG/L	0.7 MG/L	5 UG/L	213 MG/L	20 MG/L	29 UG/L
88/07/13	403 UG/L	0.5 MG/L	6 UG/L	151 MG/L	21 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE WASHITA RIVER

AQUIFER-WELL NO.
08-003014

LEGAL DESCRIPTION
SE SE SW 10 04N 01WIM

COUNTY
GARVIN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF (FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	96	86-96	690 UMHOS/CM	465 MG/L	289 MG/L	7.0 STD UNIT
87/08/06	96	86-96	700 UMHOS/CM	475 MG/L	294 MG/L	7.7 STD UNIT
88/08/25	96	86-96	750 UMHOS/CM	479 MG/L	186 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	273.0 MG/L	10 UG/L	89 UG/L	5 UG/L	89 MG/L	61 MG/L
87/08/06	324.0 MG/L	10 UG/L	334 UG/L	5 UG/L	90 MG/L	50 MG/L
88/08/25	334.0 MG/L	10 UG/L	360 UG/L	5 UG/L	90 MG/L	45 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.20 MG/L	42 UG/L	45 UG/L	15 MG/L
87/08/06	10 UG/L	10 UG/L	0.14 MG/L	40 UG/L	45 UG/L	15 MG/L
88/08/25	10 UG/L	10 UG/L	0.15 MG/L	100 UG/L	45 UG/L	16 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	10 UG/L	5.0 MG/L	5 UG/L	65 MG/L	21 MG/L	27 UG/L
87/08/06	10 UG/L	4.3 MG/L	5 UG/L	58 MG/L	20 MG/L	389 UG/L
88/08/25	10 UG/L	2.7 MG/L	5 UG/L	51 MG/L	20 MG/L	388 UG/L

GERTY SAND ALLUVIUM AND TERRACE DEPOSITS

AQUIFER-WELL NO.
07-003018

LEGAL DESCRIPTION
NW NE SW 09 04N 03E1M

COUNTY
GARVIN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	70	45-55	1200 UMHOS/CM	752 MG/L	553 MG/L	7.5 STD UNIT
88/07/13	70	45-55	1200 UMHOS/CM	682 MG/L	297 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/06	467.0 MG/L	10 UG/L	212 UG/L	5 UG/L	130 MG/L	79 MG/L
88/07/13	385.0 MG/L	10 UG/L	188 UG/L	5 UG/L	108 MG/L	81 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/06	10 UG/L	10 UG/L	0.36 MG/L	16 UG/L	45 UG/L	56 MG/L
88/07/13	10 UG/L	10 UG/L	0.43 MG/L	23 UG/L	45 UG/L	47 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/06	638 UG/L	1.0 MG/L	5 UG/L	64 MG/L	96 MG/L	15 UG/L
88/07/13	770 UG/L	0.6 MG/L	5 UG/L	50 MG/L	65 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE WASHITA RIVER

AQUIFER-WELL NO.
08-003018

LEGAL DESCRIPTION
NE NW SW 14 04N 04W1M

COUNTY
GARVIN

92

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/11	150	130-140	300 UMHOS/CM	227 MG/L	161 MG/L	7.6 STD UNIT
88/07/06	150	130-140	350 UMHOS/CM	242 MG/L	174 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/11	151.0 MG/L	10 UG/L	290 UG/L	5 UG/L	41 MG/L	10 MG/L
88/07/06	171.0 MG/L	10 UG/L	210 UG/L	8 UG/L	42 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/11	10 UG/L	10 UG/L	0.21 MG/L	1262 UG/L	45 UG/L	15 MG/L
88/07/06	10 UG/L	10 UG/L	0.20 MG/L	27 UG/L	45 UG/L	14 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/11	41 UG/L	2.4 MG/L	5 UG/L	20 MG/L	20 MG/L	5 UG/L
88/07/06	10 UG/L	3.0 MG/L	5 UG/L	15 MG/L	20 MG/L	7 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-003209

LEGAL DESCRIPTION
SW SE SE 25 04N 08WIM

COUNTY
GRADY

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	90	70-90	500 UMHOS/CM	365 MG/L	264 MG/L	7.5 STD UNIT
87/08/11	90	70-90	600 UMHOS/CM	427 MG/L	276 MG/L	7.4 STD UNIT
88/07/06	90	70-90	450 UMHOS/CM	368 MG/L	189 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	203.0 MG/L	10 UG/L	214 UG/L	5 UG/L	76 MG/L	10 MG/L
87/08/11	167.0 MG/L	10 UG/L	152 UG/L	5 UG/L	80 MG/L	27 MG/L
88/07/06	87.0 MG/L	10 UG/L	44 UG/L	12 UG/L	47 MG/L	14 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	11 UG/L	0.49 MG/L	151 UG/L	45 UG/L	15 MG/L
87/08/11	10 UG/L	17 UG/L	0.38 MG/L	19 UG/L	45 UG/L	18 MG/L
88/07/06	10 UG/L	10 UG/L	0.33 MG/L	440 UG/L	45 UG/L	16 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	3.0 MG/L	5 UG/L	20 MG/L	61 MG/L	89 UG/L
87/08/11	10 UG/L	8.5 MG/L	5 UG/L	24 MG/L	79 MG/L	19 UG/L
88/07/06	10 UG/L	26.1 MG/L	5 UG/L	19 MG/L	34 MG/L	395 UG/L

RUSH SPRINGS SANDSTONE

AQUIFER-WELL NO.
14-000508

LEGAL DESCRIPTION
NW NW NW 06 06N 08WIM

COUNTY
GRADY

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	205	100-200	700 UMHOS/CM	578 MG/L	475 MG/L	7.4 STD UNIT
87/08/11	205	100-200	800 UMHOS/CM	542 MG/L	463 MG/L	7.1 STD UNIT
88/07/06	205	100-200	1400 UMHOS/CM	866 MG/L	567 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	297.0 MG/L	10 UG/L	316 UG/L	5 UG/L	118 MG/L	12 MG/L
87/08/11	387.0 MG/L	10 UG/L	283 UG/L	5 UG/L	109 MG/L	10 MG/L
88/07/06	441.0 MG/L	10 UG/L	227 UG/L	5 UG/L	149 MG/L	27 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.38 MG/L	1533 UG/L	45 UG/L	46 MG/L
87/08/11	10 UG/L	15 UG/L	0.33 MG/L	289 UG/L	45 UG/L	43 MG/L
88/07/06	10 UG/L	10 UG/L	0.32 MG/L	2412 UG/L	45 UG/L	59 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	595 UG/L	0.5 MG/L	5 UG/L	21 MG/L	113 MG/L	22 UG/L
87/08/11	122 UG/L	1.3 MG/L	5 UG/L	16 MG/L	77 MG/L	119 UG/L
88/07/06	717 UG/L	0.5 MG/L	5 UG/L	34 MG/L	230 MG/L	55 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE WASHITA RIVER

AQUIFER-WELL NO.
08-003003

LEGAL DESCRIPTION
NE NE NE 35 07N 07WIM

COUNTY
GRADY

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/11	50	45-50	400 UMHOS/CM	288 MG/L	208 MG/L	7.1 STD UNIT
88/07/07	50	45-50	475 UMHOS/CM	313 MG/L	208 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/11	176.0 MG/L	10 UG/L	172 UG/L	5 UG/L	56 MG/L	10 MG/L
88/07/07	182.0 MG/L	10 UG/L	207 UG/L	6 UG/L	57 MG/L	14 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/11	10 UG/L	10 UG/L	0.43 MG/L	17 UG/L	45 UG/L	15 MG/L
88/07/07	10 UG/L	10 UG/L	0.37 MG/L	13 UG/L	45 UG/L	15 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/11	10 UG/L	3.0 MG/L	5 UG/L	19 MG/L	41 MG/L	6 UG/L
88/07/07	10 UG/L	5.1 MG/L	5 UG/L	23 MG/L	43 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CANADIAN RIVER

AQUIFER-WELL NO.
06-003021

LEGAL DESCRIPTION
SE NE NE 34 10N 06WIM

COUNTY
GRADY

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/07	32	22-32	725 UMHOS/CM	466 MG/L	355 MG/L	7.9 STD UNIT
87/08/19	32	22-32	650 UMHOS/CM	378 MG/L	316 MG/L	7.6 STD UNIT
88/07/27	32	22-32	550 UMHOS/CM	413 MG/L	324 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/07	337.0 MG/L	10 UG/L	254 UG/L	5 UG/L	99 MG/L	27 MG/L
87/08/19	307.0 MG/L	10 UG/L	237 UG/L	5 UG/L	88 MG/L	29 MG/L
88/07/27	330.0 MG/L	10 UG/L	235 UG/L	5 UG/L	83 MG/L	22 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/07	10 UG/L	10 UG/L	0.29 MG/L	462 UG/L	45 UG/L	22 MG/L
87/08/19	10 UG/L	10 UG/L	0.28 MG/L	134 UG/L	45 UG/L	20 MG/L
88/07/27	10 UG/L	10 UG/L	0.30 MG/L	270 UG/L	45 UG/L	18 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/07	523 UG/L	1.4 MG/L	5 UG/L	43 MG/L	56 MG/L	26 UG/L
87/08/19	484 UG/L	1.7 MG/L	5 UG/L	37 MG/L	44 MG/L	5 UG/L
88/07/27	460 UG/L	1.6 MG/L	5 UG/L	30 MG/L	60 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
01-003002

LEGAL DESCRIPTION
SW SW NE 06 25N 03WIM

COUNTY
GRANT

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/07	44	32-42	725 UMHOS/CM	446 MG/L	306 MG/L	8.0 STD UNIT
87/08/19	44	32-42	675 UMHOS/CM	451 MG/L	312 MG/L	7.6 STD UNIT
88/07/27	44	32-42	550 UMHOS/CM	411 MG/L	292 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/07	359.0 MG/L	10 UG/L	290 UG/L	5 UG/L	85 MG/L	26 MG/L
87/08/19	354.0 MG/L	10 UG/L	260 UG/L	5 UG/L	77 MG/L	28 MG/L
88/07/27	355.0 MG/L	10 UG/L	259 UG/L	5 UG/L	68 MG/L	20 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/07	10 UG/L	10 UG/L	0.30 MG/L	319 UG/L	45 UG/L	25 MG/L
87/08/19	10 UG/L	41 UG/L	0.34 MG/L	248 UG/L	45 UG/L	23 MG/L
88/07/27	10 UG/L	10 UG/L	0.37 MG/L	454 UG/L	45 UG/L	21 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/07	57 UG/L	0.5 MG/L	5 UG/L	61 MG/L	38 MG/L	23 UG/L
87/08/19	48 UG/L	0.6 MG/L	5 UG/L	52 MG/L	33 MG/L	22 UG/L
88/07/27	127 UG/L	0.5 MG/L	5 UG/L	49 MG/L	57 MG/L	12 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.

01-003001

LEGAL DESCRIPTION

SE SE SE 13 25N 03WIM

COUNTY

GRANT

98

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/07	48	38-48	1500 UMHOS/CM	860 MG/L	370 MG/L	7.8 STD UNIT
87/08/19	48	38-48	2400 UMHOS/CM	1248 MG/L	537 MG/L	7.8 STD UNIT
88/07/27	48	38-48	900 UMHOS/CM	647 MG/L	399 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/07	424.0 MG/L	10 UG/L	187 UG/L	5 UG/L	72 MG/L	219 MG/L
87/08/19	393.0 MG/L	10 UG/L	231 UG/L	5 UG/L	104 MG/L	512 MG/L
88/07/27	375.0 MG/L	10 UG/L	301 UG/L	5 UG/L	76 MG/L	140 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/07	10 UG/L	33 UG/L	0.55 MG/L	135 UG/L	45 UG/L	39 MG/L
87/08/19	10 UG/L	10 UG/L	0.53 MG/L	108 UG/L	45 UG/L	56 MG/L
88/07/27	10 UG/L	10 UG/L	0.60 MG/L	45 UG/L	45 UG/L	37 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/07	44 UG/L	0.5 MG/L	8 UG/L	208 MG/L	67 MG/L	5 UG/L
87/08/19	128 UG/L	0.8 MG/L	10 UG/L	288 MG/L	74 MG/L	5 UG/L
88/07/27	37 UG/L	1.2 MG/L	5 UG/L	94 MG/L	55 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
01-003003

LEGAL DESCRIPTION
SE SW SE 29 26N 05WIM

COUNTY
GRANT

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/08	26	18-26	780 UMHOS/CM	483 MG/L	362 MG/L	8.1 STD UNIT
87/08/19	26	18-26	675 UMHOS/CM	473 MG/L	294 MG/L	7.4 STD UNIT
88/07/27	26	18-26	625 UMHOS/CM	457 MG/L	318 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/08	274.0 MG/L	10 UG/L	189 UG/L	5 UG/L	85 MG/L	46 MG/L
87/08/19	285.0 MG/L	10 UG/L	142 UG/L	5 UG/L	71 MG/L	52 MG/L
88/07/27	321.0 MG/L	10 UG/L	167 UG/L	5 UG/L	72 MG/L	43 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/08	10 UG/L	10 UG/L	0.62 MG/L	95 UG/L	45 UG/L	27 MG/L
87/08/19	10 UG/L	10 UG/L	0.44 MG/L	41 UG/L	45 UG/L	24 MG/L
88/07/27	10 UG/L	10 UG/L	0.50 MG/L	22 UG/L	45 UG/L	24 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/08	38 UG/L	10.4 MG/L	10 UG/L	45 MG/L	50 MG/L	5 UG/L
87/08/19	84 UG/L	3.1 MG/L	14 UG/L	58 MG/L	57 MG/L	5 UG/L
88/07/27	39 UG/L	3.4 MG/L	5 UG/L	50 MG/L	70 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
01-003015	SE NE NW 27 26N 08WIM	GRANT

100

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/31	104	70-104	7000 UMHOS/CM	7704 MG/L	2908 MG/L	6.7 STD UNIT
88/08/09	104	70-104	9500 UMHOS/CM	7660 MG/L	2956 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/31	158.0 MG/L	10 UG/L	12 UG/L	5 UG/L	728 MG/L	2625 MG/L
88/08/09	171.0 MG/L	10 UG/L	10 UG/L	5 UG/L	720 MG/L	2062 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/31	10 UG/L	10 UG/L	0.59 MG/L	78 UG/L	45 UG/L	165 MG/L
88/08/09	10 UG/L	10 UG/L	0.52 MG/L	36 UG/L	45 UG/L	162 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/31	10 UG/L	11.9 MG/L	5 UG/L	1302 MG/L	1948 MG/L	5 UG/L
88/08/09	10 UG/L	12.9 MG/L	18 UG/L	1285 MG/L	1727 MG/L	5 UG/L

DOG SHALE AND BLAINE GYPSUM

AQUIFER-WELL NO.
15-003018

LEGAL DESCRIPTION
NW SE SW 36 01N 25W1M

COUNTY
HARMON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/21	160	90-160	2300 UMHOS/CM	3076 MG/L	1913 MG/L	6.9 STD UNIT

87/07/21	ALKALINITY, TOTAL 191.0 MG/L	ARSENIC 10 UG/L	BARIUM 10 UG/L	CADMIUM 5 UG/L	CALCIUM 528 MG/L	CHLORIDE 139 MG/L
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87/07/21	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.40 MG/L	IRON 10 UG/L	LEAD 45 UG/L	MAGNESIUM 89 MG/L
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87/07/21	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 9.7 MG/L	SELENIUM 8 UG/L	SODIUM 79 MG/L	SULFATE 1583 MG/L	ZINC 5 UG/L
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DOG SHALE AND BLAINE GYPSUM

101	AQUIFER-WELL NO. 15-003017	LEGAL DESCRIPTION NW NW NE 30 02N 25W1M	COUNTY HARMON
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102

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/21	210	90-210	2100 UMHOS/CM	2941 MG/L	1813 MG/L	6.5 STD UNIT
88/08/18	210	90-210	2500 UMHOS/CM	3115 MG/L	2300 MG/L	6.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/21	216.0 MG/L	10 UG/L	10 UG/L	5 UG/L	470 MG/L	120 MG/L
88/08/18	192.0 MG/L	10 UG/L	21 UG/L	5 UG/L	477 MG/L	134 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/21	10 UG/L	10 UG/L	0.39 MG/L	37 UG/L	45 UG/L	106 MG/L
88/08/18	10 UG/L	10 UG/L	0.45 MG/L	90 UG/L	45 UG/L	116 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/21	10 UG/L	15.9 MG/L	9 UG/L	71 MG/L	1594 MG/L	5 UG/L
88/08/18	10 UG/L	13.7 MG/L	6 UG/L	95 MG/L	1630 MG/L	5 UG/L

DOG SHALE AND BLAINE GYPSUM

AQUIFER-WELL NO.
15-000521

LEGAL DESCRIPTION
SE NE SE 03 02N 26WIM

COUNTY
HARMON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/21	230	210-230	400 UMHOS/CM	431 MG/L	241 MG/L	6.6 STD UNIT
88/08/09	230	210-230	620 UMHOS/CM	427 MG/L	261 MG/L	6.6 STD UNIT
86/09/11	230	210-230	500 UMHOS/CM	417 MG/L	268 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/21	244.0 MG/L	10 UG/L	86 UG/L	5 UG/L	72 MG/L	12 MG/L
88/08/09	227.0 MG/L	10 UG/L	96 UG/L	5 UG/L	69 MG/L	17 MG/L
86/09/11	260.0 MG/L	10 UG/L	88 UG/L	5 UG/L	66 MG/L	13 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/21	10 UG/L	10 UG/L	0.62 MG/L	10 UG/L	45 UG/L	15 MG/L
88/08/09	10 UG/L	10 UG/L	0.54 MG/L	15 UG/L	45 UG/L	15 MG/L
86/09/11	10 UG/L	37 UG/L	0.57 MG/L	100 UG/L	45 UG/L	14 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/21	10 UG/L	8.9 MG/L	5 UG/L	32 MG/L	54 MG/L	5 UG/L
88/08/09	10 UG/L	8.9 MG/L	6 UG/L	42 MG/L	64 MG/L	5 UG/L
86/09/11	20 UG/L	8.9 MG/L	5 UG/L	44 MG/L	65 MG/L	5 UG/L

DOG SHALE AND BLAINE GYPSUM

AQUIFER-WELL NO.
15-003015

LEGAL DESCRIPTION
NE NE NW 19 04N 25W1M

COUNTY
HARMON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/30	76	26-76	575 UMHOS/CM	539 MG/L	339 MG/L	7.4 STD UNIT
88/08/03	76	26-76	560 UMHOS/CM	468 MG/L	329 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/30	246.0 MG/L	10 UG/L	168 UG/L	5 UG/L	86 MG/L	35 MG/L
88/08/03	242.0 MG/L	10 UG/L	159 UG/L	5 UG/L	82 MG/L	29 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/30	10 UG/L	10 UG/L	0.78 MG/L	10 UG/L	45 UG/L	25 MG/L
88/08/03	10 UG/L	10 UG/L	0.76 MG/L	10 UG/L	45 UG/L	24 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/30	10 UG/L	8.4 MG/L	5 UG/L	22 MG/L	53 MG/L	5 UG/L
88/08/03	10 UG/L	9.8 MG/L	5 UG/L	26 MG/L	51 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.

05-004003

LEGAL DESCRIPTION

SW SW SW 26 26N 25W1M

COUNTY

HARPER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
88/08/09	160	100-160	3600 UMHOS/CM	4776 MG/L	2522 MG/L	6.7 STD UNIT
87/07/21	160	100-160	2000 UMHOS/CM	4393 MG/L	2311 MG/L	6.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
88/08/09	164.0 MG/L	10 UG/L	20 UG/L	5 UG/L	620 MG/L	1031 MG/L
87/07/21	179.0 MG/L	10 UG/L	10 UG/L	5 UG/L	586 MG/L	674 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
88/08/09	10 UG/L	10 UG/L	0.46 MG/L	42 UG/L	45 UG/L	148 MG/L
87/07/21	10 UG/L	10 UG/L	0.53 MG/L	16 UG/L	45 UG/L	134 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
88/08/09	10 UG/L	7.6 MG/L	11 UG/L	405 MG/L	1568 MG/L	14 UG/L
87/07/21	10 UG/L	8.4 MG/L	5 UG/L	299 MG/L	1639 MG/L	5 UG/L

DOG SHALE AND BLAINE GYPSUM

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
105	15-003023	NE NE NE 07 01S 23WIM	JACKSON

106

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/21	42	22-42	3100 UMHOS/CM	4704 MG/L	1952 MG/L	7.3 STD UNIT
87/07/22	42	22-42	2300 UMHOS/CM	4743 MG/L	46 MG/L	6.9 STD UNIT
88/08/09	42	22-42	8000 UMHOS/CM	5266 MG/L	2151 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/21	296.0 MG/L	10 UG/L	27 UG/L	5 UG/L	551 MG/L	823 MG/L
87/07/22	244.0 MG/L	10 UG/L	12 UG/L	5 UG/L	575 MG/L	749 MG/L
88/08/09	189.0 MG/L	10 UG/L	16 UG/L	5 UG/L	583 MG/L	1243 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/21	10 UG/L	21 UG/L	0.76 MG/L	1825 UG/L	45 UG/L	84 MG/L
87/07/22	10 UG/L	10 UG/L	0.68 MG/L	159 UG/L	45 UG/L	87 MG/L
88/08/09	10 UG/L	39 UG/L	0.68 MG/L	258 UG/L	112 UG/L	94 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/21	123 UG/L	0.5 MG/L	5 UG/L	694 MG/L	1782 MG/L	5 UG/L
87/07/22	86 UG/L	0.5 MG/L	5 UG/L	609 MG/L	1955 MG/L	12 UG/L
88/08/09	96 UG/L	0.5 MG/L	5 UG/L	775 MG/L	2787 MG/L	24 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE RED RIVER

AQUIFER-WELL NO.
10-003205

LEGAL DESCRIPTION
SE SE SW 04 01S 24WIM

COUNTY
JACKSON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/29	29	18-29	1000 UMHOS/CM	942 MG/L	541 MG/L	6.9 STD UNIT
88/08/25	29	18-29	1050 UMHOS/CM	930 MG/L	467 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/29	379.0 MG/L	10 UG/L	109 UG/L	5 UG/L	105 MG/L	73 MG/L
88/08/25	401.0 MG/L	10 UG/L	127 UG/L	6 UG/L	103 MG/L	61 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/29	10 UG/L	10 UG/L	0.65 MG/L	136 UG/L	45 UG/L	54 MG/L
88/08/25	10 UG/L	10 UG/L	0.60 MG/L	1016 UG/L	45 UG/L	56 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/29	10 UG/L	12.2 MG/L	5 UG/L	102 MG/L	198 MG/L	27 UG/L
88/08/25	41 UG/L	10.6 MG/L	5 UG/L	107 MG/L	235 MG/L	361 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE NORTH FORK OF THE RED RIVER

AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
09-003022	NE NE NE 11 04N 19W1M	JACKSON

108

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/28	65	45-55	1500 UMHOS/CM	1081 MG/L	135 MG/L	7.4 STD UNIT
88/07/07	65	45-55	3000 UMHOS/CM	1119 MG/L	100 MG/L	8.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/28	565.0 MG/L	10 UG/L	64 UG/L	5 UG/L	22 MG/L	187 MG/L
88/07/07	636.0 MG/L	10 UG/L	508 UG/L	5 UG/L	33 MG/L	204 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/28	10 UG/L	16 UG/L	2.35 MG/L	306 UG/L	45 UG/L	17 MG/L
88/07/07	10 UG/L	73 UG/L	2.30 MG/L	4141 UG/L	45 UG/L	20 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/28	10 UG/L	0.8 MG/L	5 UG/L	352 MG/L	56 MG/L	231 UG/L
88/07/07	12 UG/L	0.7 MG/L	5 UG/L	394 MG/L	77 MG/L	83 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE RED RIVER

AQUIFER-WELL NO.
10-003211

LEGAL DESCRIPTION
SE SW SE 34 05S 08WIM

COUNTY
JEFFERSON

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/21	135	110-132	NOT SAMPLED	451 MG/L	418 MG/L	7.0 STD UNIT
88/07/19	135	110-132	700 UMHOS/CM	447 MG/L	453 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/21	472.0 MG/L	10 UG/L	57 UG/L	5 UG/L	82 MG/L	10 MG/L
88/07/19	418.0 MG/L	10 UG/L	62 UG/L	5 UG/L	92 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/21	10 UG/L	10 UG/L	0.14 MG/L	286 UG/L	45 UG/L	51 MG/L
88/07/19	10 UG/L	10 UG/L	0.11 MG/L	113 UG/L	45 UG/L	53 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/21	10 UG/L	0.5 MG/L	5 UG/L	10 MG/L	20 MG/L	48 UG/L
88/07/19	10 UG/L	0.5 MG/L	5 UG/L	10 MG/L	20 MG/L	127 UG/L

ARBUCKLE-SIMPSON GROUP

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
109	19-003008	SE SE SW 14 01S 06E1M	JOHNSTON

110

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/07	48	40-45	1100 UMHOS/CM	793 MG/L	467 MG/L	7.6 STD UNIT
87/08/26	48	40-45	1100 UMHOS/CM	876 MG/L	533 MG/L	6.4 STD UNIT
88/07/14	48	40-45	400 UMHOS/CM	514 MG/L	348 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/07	305.0 MG/L	10 UG/L	78 UG/L	5 UG/L	121 MG/L	54 MG/L
87/08/26	342.0 MG/L	10 UG/L	87 UG/L	5 UG/L	133 MG/L	50 MG/L
88/07/14	248.0 MG/L	10 UG/L	134 UG/L	5 UG/L	84 MG/L	13 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/07	10 UG/L	10 UG/L	0.22 MG/L	278 UG/L	45 UG/L	42 MG/L
87/08/26	10 UG/L	10 UG/L	0.25 MG/L	298 UG/L	45 UG/L	44 MG/L
88/07/14	10 UG/L	10 UG/L	0.22 MG/L	42 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/07	25 UG/L	0.5 MG/L	8 UG/L	68 MG/L	278 MG/L	5 UG/L
87/08/26	419 UG/L	1.5 MG/L	6 UG/L	76 MG/L	287 MG/L	5 UG/L
88/07/14	40 UG/L	0.9 MG/L	5 UG/L	10 MG/L	134 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.

01-003009

LEGAL DESCRIPTION

NW NW NW 06 25N 01E1M

COUNTY

KAY

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	26	22-25	900 UMHOS/CM	538 MG/L	280 MG/L	7.9 STD UNIT
87/07/21	26	22-25	910 UMHOS/CM	573 MG/L	373 MG/L	6.7 STD UNIT
88/07/14	26	22-25	1325 UMHOS/CM	609 MG/L	397 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	240.0 MG/L	10 UG/L	115 UG/L	5 UG/L	93 MG/L	119 MG/L
87/07/21	349.0 MG/L	10 UG/L	133 UG/L	5 UG/L	117 MG/L	76 MG/L
88/07/14	299.0 MG/L	10 UG/L	150 UG/L	5 UG/L	117 MG/L	95 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.44 MG/L	34 UG/L	45 UG/L	15 MG/L
87/07/21	10 UG/L	10 UG/L	0.36 MG/L	13 UG/L	45 UG/L	20 MG/L
88/07/14	10 UG/L	10 UG/L	0.27 MG/L	52 UG/L	45 UG/L	19 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	1.1 MG/L	5 UG/L	83 MG/L	89 MG/L	6 UG/L
87/07/21	10 UG/L	1.0 MG/L	5 UG/L	52 MG/L	43 MG/L	122 UG/L
88/07/14	20 UG/L	0.7 MG/L	54 UG/L	64 MG/L	66 MG/L	120 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ARKANSAS RIVER

AQUIFER-WELL NO.

02-003012

LEGAL DESCRIPTION

NE NE NW 33 26N 03E1M

COUNTY

KAY .

112

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/18	40	21-38	1490 UMHOS/CM	874 MG/L	437 MG/L	7.1 STD UNIT
87/08/17	40	21-38	1300 UMHOS/CM	851 MG/L	474 MG/L	7.2 STD UNIT
88/06/08	40	21-38	941 UMHOS/CM	618 MG/L	415 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/18	390.0 MG/L	10 UG/L	72 UG/L	5 UG/L	117 MG/L	81 MG/L
87/08/17	388.0 MG/L	10 UG/L	72 UG/L	5 UG/L	116 MG/L	74 MG/L
88/06/08	357.0 MG/L	10 MG/L	73 UG/L	5 UG/L	106 MG/L	34 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/18	10 UG/L	10 UG/L	0.50 MG/L	121 UG/L	45 UG/L	37 MG/L
87/08/17	10 UG/L	10 UG/L	0.44 MG/L	126 UG/L	45 UG/L	37 MG/L
88/06/08	10 UG/L	10 UG/L	.48 MG/L	147 UG/L	45 UG/L	34 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/18	76 UG/L	0.5 MG/L	5 UG/L	143 MG/L	206 MG/L	29 UG/L
87/08/17	815 UG/L	0.5 MG/L	5 UG/L	115 MG/L	212 MG/L	17 UG/L
88/06/08	715 UG/L	.5 MG/L	5 UG/L	61 MG/L	133 MG/L	15 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003005

LEGAL DESCRIPTION
NE NE SE 11 17N 07WIM

COUNTY
KINGFISHER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/23	102	52-102	750 UMHOS/CM	461 MG/L	244 MG/L	7.6 STD UNIT
87/08/18	102	52-102	600 UMHOS/CM	437 MG/L	241 MG/L	7.2 STD UNIT
88/08/24	102	52-102	650 UMHOS/CM	388 MG/L	245 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/23	198.0 MG/L	10 UG/L	260 UG/L	5 UG/L	70 MG/L	75 MG/L
87/08/18	182.0 MG/L	10 UG/L	240 UG/L	5 UG/L	64 MG/L	62 MG/L
88/08/24	267.0 MG/L	10 UG/L	253 UG/L	5 UG/L	61 MG/L	66 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/23	10 UG/L	10 UG/L	0.32 MG/L	545 UG/L	45 UG/L	19 MG/L
87/08/18	10 UG/L	186 UG/L	0.24 MG/L	575 UG/L	45 UG/L	18 MG/L
88/08/24	10 UG/L	10 UG/L	0.32 MG/L	100 UG/L	45 UG/L	17 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/23	10 UG/L	7.8 MG/L	5 UG/L	51 MG/L	49 MG/L	5 UG/L
87/08/18	28 UG/L	9.0 MG/L	7 UG/L	46 MG/L	35 MG/L	24 UG/L
88/08/24	10 UG/L	4.8 MG/L	5 UG/L	43 MG/L	34 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003037

LEGAL DESCRIPTION
SE SW SE 03 19N 08WIM

COUNTY
KINGFISHER

114

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/11	59	49-59	700 UMHOS/CM	504 MG/L	298 MG/L	7.4 STD UNIT
87/07/29	59	49-59	850 UMHOS/CM	794 MG/L	424 MG/L	6.8 STD UNIT
88/08/02	59	49-59	700 UMHOS/CM	457 MG/L	312 MG/L	6.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/11	310.0 MG/L	10 UG/L	163 UG/L	5 UG/L	68 MG/L	45 MG/L
87/07/29	255.0 MG/L	10 UG/L	180 UG/L	5 UG/L	103 MG/L	50 MG/L
88/08/02	294.0 MG/L	10 UG/L	176 UG/L	5 UG/L	81 MG/L	25 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/11	10 UG/L	43 UG/L	0.61 MG/L	100 UG/L	45 UG/L	19 MG/L
87/07/29	10 UG/L	23 UG/L	0.72 MG/L	36 UG/L	45 UG/L	35 MG/L
88/08/02	10 UG/L	10 UG/L	0.50 MG/L	10 UG/L	45 UG/L	25 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/11	20 UG/L	8.9 MG/L	5 UG/L	70 MG/L	72 MG/L	5 UG/L
87/07/29	10 UG/L	14.5 MG/L	5 UG/L	41 MG/L	102 MG/L	67 UG/L
88/08/02	10 UG/L	8.5 MG/L	5 UG/L	41 MG/L	33 MG/L	6 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE NORTH FORK OF THE RED RIVER

AQUIFER-WELL NO.
09-003016

LEGAL DESCRIPTION
NW SW SE 09 06N 20WIM

COUNTY
KIOWA

116

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/25	27	15-24	1900 UMHOS/CM	1134 MG/L	745 MG/L	7.0 STD UNIT
88/08/04	27	15-24	1800 UMHOS/CM	1002 MG/L	467 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/25	636.0 MG/L	10 UG/L	434 UG/L	5 UG/L	139 MG/L	132 MG/L
88/08/04	572.0 MG/L	10 UG/L	302 UG/L	5 UG/L	113 MG/L	99 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/25	10 UG/L	10 UG/L	0.58 MG/L	527 UG/L	45 UG/L	90 MG/L
88/08/04	10 UG/L	10 UG/L	0.58 MG/L	407 UG/L	45 UG/L	73 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/25	718 UG/L	7.3 MG/L	5 UG/L	133 MG/L	154 MG/L	34 UG/L
88/08/04	569 UG/L	3.4 MG/L	5 UG/L	116 MG/L	92 MG/L	513 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003042

LEGAL DESCRIPTION
NW NE SE 13 17N 01E1M

COUNTY
LOGAN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/18	135	100-130	400 UMHOS/CM	285 MG/L	222 MG/L	7.4 STD UNIT
87/08/21	135	100-130	570 UMHOS/CM	358 MG/L	218 MG/L	7.5 STD UNIT
88/08/04	135	100-130	700 UMHOS/CM	462 MG/L	317 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/18	150.0 MG/L	10 UG/L	255 UG/L	5 UG/L	52 MG/L	40 MG/L
87/08/21	160.0 MG/L	10 UG/L	160 UG/L	5 UG/L	50 MG/L	45 MG/L
88/08/04	263.0 MG/L	10 UG/L	192 UG/L	5 UG/L	68 MG/L	26 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/18	10 UG/L	10 UG/L	0.32 MG/L	44 UG/L	45 UG/L	22 MG/L
87/08/21	10 UG/L	10 UG/L	0.28 MG/L	15 UG/L	45 UG/L	23 MG/L
88/08/04	10 UG/L	10 UG/L	0.65 MG/L	223 UG/L	45 UG/L	27 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/18	10 UG/L	7.4 MG/L	5 UG/L	16 MG/L	22 MG/L	5 UG/L
87/08/21	10 UG/L	5.1 MG/L	5 UG/L	18 MG/L	20 MG/L	6 UG/L
88/08/04	10 UG/L	12.1 MG/L	5 UG/L	49 MG/L	37 MG/L	331 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003015

LEGAL DESCRIPTION
NE NW NE 11 15N 02W1M

COUNTY
LOGAN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/21	80	69-80	540 UMHOS/CM	372 MG/L	184 MG/L	7.3 STD UNIT
88/08/04	80	69-80	450 UMHOS/CM	338 MG/L	156 MG/L	6.7 STD UNIT
86/07/18	80	69-80	360 UMHOS/CM	356 MG/L	123 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/21	182.0 MG/L	10 UG/L	220 UG/L	5 UG/L	50 MG/L	40 MG/L
88/08/04	150.0 MG/L	10 UG/L	174 UG/L	5 UG/L	40 MG/L	33 MG/L
86/07/18	131.0 MG/L	10 UG/L	162 UG/L	5 UG/L	36 MG/L	27 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/21	10 UG/L	88 UG/L	0.14 MG/L	640 UG/L	45 UG/L	15 MG/L
88/08/04	10 UG/L	10 UG/L	0.16 MG/L	52 UG/L	45 UG/L	13 MG/L
86/07/18	10 UG/L	10 UG/L	0.23 MG/L	30 UG/L	45 UG/L	11 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/21	10 UG/L	4.8 MG/L	5 UG/L	46 MG/L	32 MG/L	197 UG/L
88/08/04	10 UG/L	6.7 MG/L	6 UG/L	46 MG/L	38 MG/L	5 UG/L
86/07/18	10 UG/L	4.7 MG/L	5 UG/L	38 MG/L	20 MG/L	25 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003035

LEGAL DESCRIPTION
SW SE SW 21 17N 04WIM

COUNTY
LOGAN

118

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	255	245-255	250 UMHOS/CM	195 MG/L	103 MG/L	6.9 STD UNIT
87/08/12	255	245-255	250 UMHOS/CM	181 MG/L	129 MG/L	6.2 STD UNIT
88/08/01	255	245-255	260 UMHOS/CM	203 MG/L	10 MG/L	5.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	108.0 MG/L	10 UG/L	178 UG/L	5 UG/L	33 MG/L	10 MG/L
87/08/12	111.0 MG/L	10 UG/L	179 UG/L	5 UG/L	34 MG/L	36 MG/L
88/08/01	119.0 MG/L	10 UG/L	10 UG/L	5 UG/L	1 MG/L	19 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.15 MG/L	547 UG/L	45 UG/L	8 MG/L
87/08/12	10 UG/L	10 UG/L	0.10 MG/L	364 UG/L	45 UG/L	9 MG/L
88/08/01	10 UG/L	10 UG/L	0.10 MG/L	53 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	156 UG/L	0.5 MG/L	5 UG/L	14 MG/L	34 MG/L	5 UG/L
87/08/12	156 UG/L	0.5 MG/L	5 UG/L	12 MG/L	20 MG/L	39 UG/L
88/08/01	10 UG/L	0.5 MG/L	5 UG/L	68 MG/L	29 MG/L	7 UG/L

ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-003015

LEGAL DESCRIPTION
NW NE SE 32 07S 01W1M

COUNTY
LOVE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/11	440	300-440	720 UMHOS/CM	496 MG/L	112 MG/L	6.9 STD UNIT
88/08/01	440	300-440	320 UMHOS/CM	239 MG/L	155 MG/L	6.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/11	324.0 MG/L	10 UG/L	120 UG/L	5 UG/L	35 MG/L	69 MG/L
88/08/01	114.0 MG/L	10 UG/L	67 UG/L	5 UG/L	40 MG/L	32 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/11	10 UG/L	101 UG/L	0.23 MG/L	1716 UG/L	45 UG/L	6 MG/L
88/08/01	10 UG/L	10 UG/L	0.50 MG/L	19 UG/L	45 UG/L	11 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/11	39 UG/L	0.5 MG/L	5 UG/L	179 MG/L	22 MG/L	812 UG/L
88/08/01	10 UG/L	0.5 MG/L	5 UG/L	20 MG/L	26 MG/L	5 UG/L

ANTLERS SANDSTONE

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
119	12-003018	NE NE NW 06 07S 02E1M	LOVE

120

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	90	30-90	360 UMHOS/CM	286 MG/L	179 MG/L	7.4 STD UNIT
87/07/30	90	30-90	230 UMHOS/CM	286 MG/L	214 MG/L	6.8 STD UNIT
88/08/01	90	30-90	340 UMHOS/CM	278 MG/L	184 MG/L	6.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	212.0 MG/L	10 UG/L	178 UG/L	5 UG/L	54 MG/L	10 MG/L
87/07/30	195.0 MG/L	10 UG/L	166 UG/L	5 UG/L	53 MG/L	14 MG/L
88/08/01	184.0 MG/L	10 UG/L	218 UG/L	5 UG/L	55 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.65 MG/L	71 UG/L	45 UG/L	15 MG/L
87/07/30	10 UG/L	10 UG/L	0.53 MG/L	98 UG/L	45 UG/L	16 MG/L
88/08/01	18 UG/L	10 UG/L	0.58 MG/L	1909 UG/L	45 UG/L	15 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	16 UG/L	0.8 MG/L	5 UG/L	24 MG/L	24 MG/L	5 UG/L
87/07/30	10 UG/L	2.5 MG/L	5 UG/L	25 MG/L	20 MG/L	5 UG/L
88/08/01	151 UG/L	2.5 MG/L	5 UG/L	21 MG/L	20 MG/L	11 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE RED RIVER

AQUIFER-WELL NO.
10-003206

LEGAL DESCRIPTION
SE NE SE 13 07S 03WIM

COUNTY
LOVE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	45	36-46	675 UMHOS/CM	429 MG/L	236 MG/L	7.8 STD UNIT
87/08/20	45	36-46	600 UMHOS/CM	461 MG/L	278 MG/L	8.1 STD UNIT
88/08/15	45	36-46	570 UMHOS/CM	476 MG/L	282 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	225.0 MG/L	14 UG/L	540 UG/L	5 UG/L	74 MG/L	28 MG/L
87/08/20	238.0 MG/L	10 UG/L	542 UG/L	5 UG/L	75 MG/L	37 MG/L
88/08/15	276.0 MG/L	10 UG/L	553 UG/L	5 UG/L	74 MG/L	42 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.48 MG/L	59 UG/L	45 UG/L	18 MG/L
87/08/20	10 UG/L	10 UG/L	0.40 MG/L	27 UG/L	45 UG/L	18 MG/L
88/08/15	10 UG/L	10 UG/L	0.39 MG/L	56 UG/L	45 UG/L	17 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	12.3 MG/L	5 UG/L	45 MG/L	20 MG/L	5 UG/L
87/08/20	10 UG/L	16.2 MG/L	6 UG/L	45 MG/L	20 MG/L	6 UG/L
88/08/15	10 UG/L	15.9 MG/L	5 UG/L	58 MG/L	34 MG/L	9 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003038

LEGAL DESCRIPTION
SW SW SW 23 21N 10W1M

COUNTY
MAJOR

122

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	43	33-43	1100 UMHOS/CM	756 MG/L	397 MG/L	7.5 STD UNIT
87/08/17	43	33-43	1100 UMHOS/CM	753 MG/L	441 MG/L	7.5 STD UNIT
88/06/15	43	33-43	958 UMHOS/CM	703 MG/L	397 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	230.0 MG/L	10 UG/L	481 UG/L	5 UG/L	115 MG/L	175 MG/L
87/08/17	252.0 MG/L	10 UG/L	395 UG/L	5 UG/L	127 MG/L	186 MG/L
88/06/15	223.0 MG/L	10 MG/L	332 UG/L	5 UG/L	114 MG/L	146 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.23 MG/L	37 UG/L	45 UG/L	22 MG/L
87/08/17	10 UG/L	10 UG/L	0.16 MG/L	38 UG/L	45 UG/L	25 MG/L
88/06/15	10 UG/L	10 UG/L	.19 MG/L	10 UG/L	45 UG/L	22 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	4.7 MG/L	5 UG/L	55 MG/L	30 MG/L	21 UG/L
87/08/17	10 UG/L	7.5 MG/L	5 UG/L	65 MG/L	40 MG/L	47 UG/L
88/06/15	10 UG/L	6.6 MG/L	5 UG/L	55 MG/L	34 MG/L	11 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003039

LEGAL DESCRIPTION
NE SE SE 01 22N 12WIM

COUNTY
MAJOR

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/21	102	96-102	NOT SAMPLED	116 MG/L	46 MG/L	7.0 STD UNIT
88/07/19	102	96-102	140 UMHOS/CM	151 MG/L	42 MG/L	6.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/21	19.0 MG/L	10 UG/L	28 UG/L	5 UG/L	9 MG/L	15 MG/L
88/07/19	15.0 MG/L	10 UG/L	38 UG/L	5 UG/L	10 MG/L	22 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/21	10 UG/L	11 UG/L	0.10 MG/L	58 UG/L	45 UG/L	3 MG/L
88/07/19	10 UG/L	52 UG/L	0.10 MG/L	843 UG/L	45 UG/L	4 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/21	10 UG/L	3.7 MG/L	5 UG/L	10 MG/L	43 MG/L	7 UG/L
88/07/19	10 UG/L	4.5 MG/L	5 UG/L	12 MG/L	20 MG/L	5 UG/L

ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-003019

LEGAL DESCRIPTION
NE SE SW 36 07S 05E1M

COUNTY
MARSHALL

124

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/16	265	225-265	5522 UMHOS/CM	3318 MG/L	224 MG/L	7.0 STD UNIT
88/07/22	265	225-265	5900 UMHOS/CM	3588 MG/L	266 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/16	485.0 MG/L	10 UG/L	28 UG/L	5 UG/L	65 MG/L	1412 MG/L
88/07/22	419.0 MG/L	10 UG/L	25 UG/L	5 UG/L	68 MG/L	1643 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/16	11 UG/L	225 UG/L	4.68 MG/L	4030 UG/L	45 UG/L	14 MG/L
88/07/22	16 UG/L	41 UG/L	4.50 MG/L	1718 UG/L	45 UG/L	14 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/16	124 UG/L	0.5 MG/L	5 UG/L	1175 MG/L	130 MG/L	54 UG/L
88/07/22	48 UG/L	0.5 MG/L	5 UG/L	1145 MG/L	20 MG/L	12 UG/L

ANTLERS SANDSTONE

AQUIFER-WELL NO.
12-003022

LEGAL DESCRIPTION
SW NW NW 23 07S 25E1M

COUNTY
MCCURTAIN

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/07	70	50-58	NOT SAMPLED	85 MG/L	24 MG/L	7.0 STD UNIT
88/06/30	70	50-58	120 UMHOS/CM	130 MG/L	35 MG/L	6.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/07	31.0 MG/L	10 UG/L	49 UG/L	5 UG/L	6 MG/L	10 MG/L
88/06/30	37.0 MG/L	10 UG/L	89 UG/L	5 UG/L	12 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/07	10 UG/L	54 UG/L	0.10 MG/L	522 UG/L	45 UG/L	2 MG/L
88/06/30	10 UG/L	15 UG/L	0.10 MG/L	47 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/07	18 UG/L	0.8 MG/L	5 UG/L	11 MG/L	20 MG/L	336 UG/L
88/06/30	10 UG/L	2.1 MG/L	5 UG/L	16 MG/L	20 MG/L	9 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CANADIAN RIVER

AQUIFER-WELL NO.
06-003022

LEGAL DESCRIPTION
SE SE NE 14 09N 15E1M

COUNTY
MCINTOSH

126

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/15	34	26-34	130 UMHOS/CM	127 MG/L	20 MG/L	6.1 STD UNIT
88/07/15	34	26-34	210 UMHOS/CM	91 MG/L	10 MG/L	6.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/15	55.0 MG/L	10 UG/L	63 UG/L	5 UG/L	6 MG/L	10 MG/L
88/07/15	21.0 MG/L	10 UG/L	66 UG/L	5 UG/L	6 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/15	10 UG/L	10 UG/L	0.10 MG/L	38 UG/L	45 UG/L	1 MG/L
88/07/15	10 UG/L	10 UG/L	0.10 MG/L	49 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/15	10 UG/L	1.4 MG/L	5 UG/L	28 MG/L	20 MG/L	54 UG/L
88/07/15	10 UG/L	1.3 MG/L	5 UG/L	10 MG/L	20 MG/L	7 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
02-003030

LEGAL DESCRIPTION
NE NE SE 31 14N 20E1M

COUNTY
MUSKOGEE

1

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
88/07/27	140	90-138	850 UMHOS/CM	296 MG/L	266 MG/L	7.2 STD UNIT

88/07/27	ALKALINITY, TOTAL 301.0 MG/L	ARSENIC 10 UG/L	BARIUM 174 UG/L	CADMIUM 5 UG/L	CALCIUM 54 MG/L	CHLORIDE 10 MG/L
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88/07/27	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.24 MG/L	IRON 23 UG/L	LEAD 45 UG/L	MAGNESIUM 27 MG/L
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88/07/27	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 1.0 MG/L	SELENIUM 5 UG/L	SODIUM 23 MG/L	SULFATE 20 MG/L	ZINC 38 UG/L
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VAMOOSA FORMATION

127	AQUIFER-WELL NO. 18-003028	LEGAL DESCRIPTION SE NE NE 17 12N 07E1M	COUNTY OKFUSKEE
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128

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/24	165	105-165	675 UMHOS/CM	258 MG/L	84 MG/L	7.2 STD UNIT

87/07/24	ALKALINITY, TOTAL 258.0 MG/L	ARSENIC 10 UG/L	BARIUM 111 UG/L	CADMIUM 5 UG/L	CALCIUM 49 MG/L	CHLORIDE 10 MG/L
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87/07/24	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.24 MG/L	IRON 10 UG/L	LEAD 45 UG/L	MAGNESIUM 23 MG/L
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87/07/24	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 0.5 MG/L	SELENIUM 5 UG/L	SODIUM 18 MG/L	SULFATE 20 MG/L	ZINC 12 UG/L
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VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003025

LEGAL DESCRIPTION
NW NW NW 20 12N 07E1M

COUNTY
OKFUSKEE

1

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF (FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/21	155	135-155	350 UMHOS/CM	272 MG/L	10 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/21	196.0 MG/L	10 UG/L	18 UG/L	5 UG/L	1 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/21	10 UG/L	323 UG/L	0.18 MG/L	51 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/21	10 UG/L	0.8 MG/L	5 UG/L	121 MG/L	20 MG/L	5 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
129	16-003030	NE SW NW 33 11N 01W1M	OKLAHOMA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/21	783	350-776	425 UMHOS/CM	304 MG/L	195 MG/L	7.3 STD UNIT
87/08/20	783	350-776	540 UMHOS/CM	311 MG/L	186 MG/L	7.6 STD UNIT
88/08/17	783	350-776	550 UMHOS/CM	302 MG/L	186 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/21	238.0 MG/L	10 UG/L	521 UG/L	5 UG/L	34 MG/L	21 MG/L
87/08/20	225.0 MG/L	10 UG/L	475 UG/L	5 UG/L	33 MG/L	18 MG/L
88/08/17	273.0 MG/L	10 UG/L	475 UG/L	5 UG/L	29 MG/L	18 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/21	10 UG/L	10 UG/L	0.25 MG/L	23 UG/L	45 UG/L	25 MG/L
87/08/20	10 UG/L	10 UG/L	0.17 MG/L	22 UG/L	45 UG/L	24 MG/L
88/08/17	14 UG/L	10 UG/L	0.21 MG/L	10 UG/L	45 UG/L	22 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/21	10 UG/L	1.0 MG/L	5 UG/L	47 MG/L	20 MG/L	5 UG/L
87/08/20	10 UG/L	0.5 MG/L	5 UG/L	53 MG/L	20 MG/L	5 UG/L
88/08/17	10 UG/L	0.5 MG/L	5 UG/L	48 MG/L	20 MG/L	5 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003029

LEGAL DESCRIPTION
SW NW SE 30 11N 03W1M

COUNTY
OKLAHOMA

1

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/18	140	120-135	400 UMHOS/CM	264 MG/L	216 MG/L	7.2 STD UNIT
87/08/25	140	120-135	550 UMHOS/CM	282 MG/L	233 MG/L	7.2 STD UNIT
88/08/17	140	120-135	500 UMHOS/CM	288 MG/L	240 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/18	192.0 MG/L	10 UG/L	185 UG/L	5 UG/L	54 MG/L	33 MG/L
87/08/25	215.0 MG/L	10 UG/L	179 UG/L	5 UG/L	59 MG/L	27 MG/L
88/08/17	220.0 MG/L	10 UG/L	176 UG/L	5 UG/L	55 MG/L	24 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/18	10 UG/L	10 UG/L	0.24 MG/L	10 UG/L	45 UG/L	20 MG/L
87/08/25	10 UG/L	55 UG/L	0.16 MG/L	57 UG/L	45 UG/L	22 MG/L
88/08/17	10 UG/L	10 UG/L	0.18 MG/L	10 UG/L	45 UG/L	21 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/18	10 UG/L	0.8 MG/L	5 UG/L	19 MG/L	20 MG/L	5 UG/L
87/08/25	10 UG/L	0.5 MG/L	5 UG/L	17 MG/L	20 MG/L	11 UG/L
88/08/17	10 UG/L	0.5 MG/L	5 UG/L	15 MG/L	20 MG/L	5 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003019

LEGAL DESCRIPTION
SE SW SW 33 12N 01E1M

COUNTY
OKLAHOMA

132

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/21	340	200-330	425 UMHOS/CM	287 MG/L	228 MG/L	7.1 STD UNIT
87/08/20	340	200-330	520 UMHOS/CM	299 MG/L	220 MG/L	7.4 STD UNIT
88/08/17	340	200-330	500 UMHOS/CM	295 MG/L	236 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/21	221.0 MG/L	10 UG/L	396 UG/L	5 UG/L	49 MG/L	31 MG/L
87/08/20	199.0 MG/L	10 UG/L	374 UG/L	5 UG/L	48 MG/L	28 MG/L
88/08/17	256.0 MG/L	10 UG/L	365 UG/L	5 UG/L	49 MG/L	30 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/21	10 UG/L	10 UG/L	0.39 MG/L	118 UG/L	45 UG/L	23 MG/L
87/08/20	10 UG/L	10 UG/L	0.30 MG/L	21 UG/L	45 UG/L	23 MG/L
88/08/17	10 UG/L	10 UG/L	0.32 MG/L	10 UG/L	45 UG/L	23 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/21	10 UG/L	0.6 MG/L	5 UG/L	31 MG/L	20 MG/L	5 UG/L
87/08/20	10 UG/L	0.5 MG/L	5 UG/L	31 MG/L	20 MG/L	5 UG/L
88/08/17	10 UG/L	0.5 MG/L	5 UG/L	31 MG/L	20 MG/L	22 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003031

LEGAL DESCRIPTION
NW NE NW 07 12N 02WIM

COUNTY
OKLAHOMA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/21	120	60-120	950 UMHOS/CM	693 MG/L	431 MG/L	7.0 STD UNIT
87/08/20	120	60-120	1000 UMHOS/CM	780 MG/L	425 MG/L	6.9 STD UNIT
88/08/17	120	60-120	1100 UMHOS/CM	690 MG/L	410 MG/L	6.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/21	224.0 MG/L	10 UG/L	70 UG/L	5 UG/L	123 MG/L	76 MG/L
87/08/20	219.0 MG/L	10 UG/L	63 UG/L	5 UG/L	113 MG/L	85 MG/L
88/08/17	278.0 MG/L	10 UG/L	65 UG/L	5 UG/L	107 MG/L	56 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/21	10 UG/L	10 UG/L	0.27 MG/L	47 UG/L	45 UG/L	30 MG/L
87/08/20	10 UG/L	10 UG/L	0.19 MG/L	60 UG/L	45 UG/L	35 MG/L
88/08/17	10 UG/L	10 UG/L	0.20 MG/L	36 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/21	11 UG/L	8.9 MG/L	5 UG/L	70 MG/L	207 MG/L	5 UG/L
87/08/20	10 UG/L	8.2 MG/L	5 UG/L	85 MG/L	175 MG/L	7 UG/L
88/08/17	10 UG/L	4.8 MG/L	5 UG/L	67 MG/L	189 MG/L	5 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.

16-003033

LEGAL DESCRIPTION

NE SW NW 33 12N 04W1M

COUNTY

OKLAHOMA

134

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/18	160	140-160	550 UMHOS/CM	328 MG/L	320 MG/L	7.2 STD UNIT
87/08/20	160	140-160	440 UMHOS/CM	258 MG/L	218 MG/L	7.3 STD UNIT
88/08/17	160	140-160	650 UMHOS/CM	328 MG/L	320 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/18	308.0 MG/L	10 UG/L	324 UG/L	5 UG/L	70 MG/L	10 MG/L
87/08/20	199.0 MG/L	10 UG/L	352 UG/L	5 UG/L	46 MG/L	10 MG/L
88/08/17	341.0 MG/L	10 UG/L	239 UG/L	5 UG/L	64 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/18	10 UG/L	10 UG/L	0.32 MG/L	881 UG/L	45 UG/L	34 MG/L
87/08/20	10 UG/L	27 UG/L	0.25 MG/L	54 UG/L	45 UG/L	25 MG/L
88/08/17	10 UG/L	12 UG/L	0.22 MG/L	35 UG/L	45 UG/L	31 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/18	10 UG/L	0.8 MG/L	65 UG/L	15 MG/L	20 MG/L	5 UG/L
87/08/20	10 UG/L	0.7 MG/L	5 UG/L	10 MG/L	20 MG/L	19 UG/L
88/08/17	10 UG/L	0.5 MG/L	5 UG/L	13 MG/L	20 MG/L	13 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003018

LEGAL DESCRIPTION
SW SW SE 09 13N 01E1M

COUNTY
OKLAHOMA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/21	180	160-175	350 UMHOS/CM	243 MG/L	223 MG/L	7.1 STD UNIT
87/08/25	180	160-175	480 UMHOS/CM	242 MG/L	204 MG/L	7.0 STD UNIT
88/08/17	180	160-175	400 UMHOS/CM	245 MG/L	216 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/21	193.0 MG/L	10 UG/L	291 UG/L	5 UG/L	49 MG/L	10 MG/L
87/08/25	181.0 MG/L	10 UG/L	209 UG/L	5 UG/L	46 MG/L	12 MG/L
88/08/17	202.0 MG/L	10 UG/L	234 UG/L	5 UG/L	43 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/21	10 UG/L	48 UG/L	0.29 MG/L	21 UG/L	45 UG/L	24 MG/L
87/08/25	10 UG/L	47 UG/L	0.19 MG/L	10 UG/L	45 UG/L	23 MG/L
88/08/17	10 UG/L	62 UG/L	0.20 MG/L	10 UG/L	45 UG/L	22 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/21	10 UG/L	0.9 MG/L	5 UG/L	10 MG/L	20 MG/L	45 UG/L
87/08/25	10 UG/L	0.5 MG/L	5 UG/L	12 MG/L	25 MG/L	7 UG/L
88/08/17	10 UG/L	0.5 MG/L	5 UG/L	11 MG/L	31 MG/L	9 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003032

LEGAL DESCRIPTION
NE NE NW 03 13N 02W1M

COUNTY
OKLAHOMA

136

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/18	120	80-120	500 UMHOS/CM	356 MG/L	310 MG/L	7.0 STD UNIT

86/08/18	ALKALINITY, TOTAL 303.0 MG/L	ARSENIC 10 UG/L	BARIUM 664 UG/L	CADMIUM 5 UG/L	CALCIUM 65 MG/L	CHLORIDE 19 MG/L
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86/08/18	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.23 MG/L	IRON 377 UG/L	LEAD 45 UG/L	MAGNESIUM 37 MG/L
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86/08/18	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 0.8 MG/L	SELENIUM 5 UG/L	SODIUM 30 MG/L	SULFATE 20 MG/L	ZINC 5 UG/L
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GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003017

LEGAL DESCRIPTION
NW SE SE 05 14N 01WIM

COUNTY
OKLAHOMA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/18	180	155-175	450 UMHOS/CM	286 MG/L	248 MG/L	7.0 STD UNIT
87/08/20	180	155-175	520 UMHOS/CM	297 MG/L	241 MG/L	6.8 STD UNIT
88/08/17	180	155-175	500 UMHOS/CM	292 MG/L	244 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/18	241.0 MG/L	10 UG/L	752 UG/L	5 UG/L	63 MG/L	13 MG/L
87/08/20	239.0 MG/L	10 UG/L	605 UG/L	5 UG/L	59 MG/L	11 MG/L
88/08/17	263.0 MG/L	10 UG/L	530 UG/L	5 UG/L	59 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/18	10 UG/L	12 UG/L	0.35 MG/L	29 UG/L	45 UG/L	23 MG/L
87/08/20	10 UG/L	28 UG/L	0.33 MG/L	32 UG/L	45 UG/L	22 MG/L
88/08/17	10 UG/L	27 UG/L	0.37 MG/L	110 UG/L	45 UG/L	22 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/18	13 UG/L	1.1 MG/L	5 UG/L	21 MG/L	20 MG/L	5 UG/L
87/08/20	16 UG/L	0.7 MG/L	5 UG/L	18 MG/L	20 MG/L	5 UG/L
88/08/17	10 UG/L	0.9 MG/L	5 UG/L	19 MG/L	20 MG/L	10 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.

16-003016

LEGAL DESCRIPTION

SE SE NE 01 14N 03W1M

COUNTY

OKLAHOMA

138

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	200	177-197	700 UMHOS/CM	403 MG/L	292 MG/L	7.1 STD UNIT

86/07/17	ALKALINITY, TOTAL 254.0 MG/L	ARSENIC 10 UG/L	BARIUM 39 UG/L	CADMIUM 5 UG/L	CALCIUM 83 MG/L	CHLORIDE 10 MG/L
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86/07/17	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 0.22 MG/L	IRON 27 UG/L	LEAD 45 UG/L	MAGNESIUM 22 MG/L
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86/07/17	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 0.5 MG/L	SELENIUM 5 UG/L	SODIUM 25 MG/L	SULFATE 89 MG/L	ZINC 5 UG/L
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VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003018

LEGAL DESCRIPTION
SE SE NW 03 22N 08E1M

COUNTY
OSAGE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/06	25	20-24	975 UMHOS/CM	566 MG/L	400 MG/L	6.7 STD UNIT
88/07/22	25	20-24	1350 UMHOS/CM	671 MG/L	460 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/06	407.0 MG/L	10 UG/L	290 UG/L	5 UG/L	108 MG/L	47 MG/L
88/07/22	405.0 MG/L	10 UG/L	296 UG/L	5 UG/L	118 MG/L	71 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/06	10 UG/L	10 UG/L	0.52 MG/L	125 UG/L	45 UG/L	28 MG/L
88/07/22	10 UG/L	11 UG/L	0.46 MG/L	42 UG/L	45 UG/L	34 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/06	222 UG/L	0.7 MG/L	5 UG/L	65 MG/L	54 MG/L	81 UG/L
88/07/22	209 UG/L	5.5 MG/L	5 UG/L	67 MG/L	64 MG/L	53 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ARKANSAS RIVER

AQUIFER-WELL NO. °
02-003029

LEGAL DESCRIPTION
NW NE SW 35 24N 04E1M

COUNTY
OSAGE

140

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/22	237	210-230	1200 UMHOS/CM	643 MG/L	22 MG/L	8.3 STD UNIT
88/07/22	237	210-230	1175 UMHOS/CM	627 MG/L	10 MG/L	8.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/22	263.0 MG/L	10 UG/L	79 UG/L	5 UG/L	3 MG/L	145 MG/L
88/07/22	314.0 MG/L	10 UG/L	80 UG/L	5 UG/L	2 MG/L	131 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/22	10 UG/L	10 UG/L	1.19 MG/L	10 UG/L	45 UG/L	1 MG/L
88/07/22	10 UG/L	10 UG/L	1.16 MG/L	11 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/22	12 UG/L	0.5 MG/L	5 UG/L	217 MG/L	20 MG/L	5 UG/L
88/07/22	10 UG/L	0.5 MG/L	5 UG/L	237 MG/L	20 MG/L	5 UG/L

VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003022

LEGAL DESCRIPTION
NE NW NW 06 24N 10E1M

COUNTY
OSAGE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/21	285	240-280	1000 UMHOS/CM	633 MG/L	349 MG/L	7.7 STD UNIT
87/07/22	285	240-280	1150 UMHOS/CM	644 MG/L	363 MG/L	6.8 STD UNIT
88/07/22	285	240-280	1200 UMHOS/CM	637 MG/L	367 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/21	301.0 MG/L	10 UG/L	29 UG/L	5 UG/L	75 MG/L	39 MG/L
87/07/22	330.0 MG/L	10 UG/L	32 UG/L	5 UG/L	80 MG/L	34 MG/L
88/07/22	270.0 MG/L	10 UG/L	32 UG/L	5 UG/L	85 MG/L	30 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/21	10 UG/L	10 UG/L	0.42 MG/L	10 UG/L	45 UG/L	31 MG/L
87/07/22	10 UG/L	25 UG/L	0.33 MG/L	10 UG/L	45 UG/L	34 MG/L
88/07/22	10 UG/L	10 UG/L	0.33 MG/L	16 UG/L	45 UG/L	35 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/21	50 UG/L	2.7 MG/L	5 UG/L	74 MG/L	177 MG/L	5 UG/L
87/07/22	36 UG/L	3.1 MG/L	5 UG/L	73 MG/L	157 MG/L	6 UG/L
88/07/22	66 UG/L	3.4 MG/L	5 UG/L	77 MG/L	169 MG/L	5 UG/L

VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003017

LEGAL DESCRIPTION
NW NW SE 26 25N 09E1M

COUNTY
OSAGE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/21	50	20-30	800 UMHOS/CM	483 MG/L	81 MG/L	8.1 STD UNIT
87/07/22	50	20-30	750 UMHOS/CM	374 MG/L	129 MG/L	7.9 STD UNIT
88/07/22	50	20-30	925 UMHOS/CM	401 MG/L	70 MG/L	8.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/21	299.0 MG/L	10 UG/L	82 UG/L	5 UG/L	21 MG/L	49 MG/L
87/07/22	260.0 MG/L	10 UG/L	62 UG/L	5 UG/L	27 MG/L	36 MG/L
88/07/22	234.0 MG/L	10 UG/L	80 UG/L	5 UG/L	16 MG/L	39 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/21	10 UG/L	10 UG/L	1.17 MG/L	33 UG/L	45 UG/L	8 MG/L
87/07/22	10 UG/L	10 UG/L	0.82 MG/L	45 UG/L	45 UG/L	8 MG/L
88/07/22	10 UG/L	10 UG/L	0.80 MG/L	80 UG/L	45 UG/L	7 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/21	10 UG/L	1.1 MG/L	5 UG/L	136 MG/L	74 MG/L	5 UG/L
87/07/22	10 UG/L	0.7 MG/L	5 UG/L	95 MG/L	23 MG/L	25 UG/L
88/07/22	10 UG/L	0.5 MG/L	5 UG/L	130 MG/L	33 MG/L	13 UG/L

VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003016

LEGAL DESCRIPTION
NE NE SW 21 27N 08E1M

COUNTY
OSAGE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF (FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/16	1350	620-1350	350 UMHOS/CM	136 MG/L	126 MG/L	6.8 STD UNIT
88/07/07	1350	620-1350	700 UMHOS/CM	330 MG/L	247 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/16	107.0 MG/L	10 UG/L	10 UG/L	5 UG/L	27 MG/L	10 MG/L
88/07/07	209.0 MG/L	10 UG/L	19 UG/L	6 UG/L	59 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/16	10 UG/L	10 UG/L	0.19 MG/L	213 UG/L	45 UG/L	13 MG/L
88/07/07	10 UG/L	10 UG/L	0.66 MG/L	1124 UG/L	45 UG/L	19 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/16	10 UG/L	0.5 MG/L	5 UG/L	13 MG/L	20 MG/L	5 UG/L
88/07/07	16 UG/L	0.5 MG/L	5 UG/L	13 MG/L	126 MG/L	76 UG/L

ROUBIDOUX FORMATION

AQUIFER-WELL NO.
21-003009

LEGAL DESCRIPTION
NW NW NW 01 28N 23E1M

COUNTY
OTTAWA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	1121	518-1121	375 UMHOS/CM	251 MG/L	230 MG/L	7.1 STD UNIT
87/07/16	1121	518-1121	700 UMHOS/CM	423 MG/L	284 MG/L	7.1 STD UNIT
88/07/07	1121	518-1121	750 UMHOS/CM	436 MG/L	279 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	130.0 MG/L	10 UG/L	94 UG/L	5 UG/L	40 MG/L	24 MG/L
87/07/16	141.0 MG/L	10 UG/L	50 UG/L	5 UG/L	65 MG/L	20 MG/L
88/07/07	201.0 MG/L	10 UG/L	100 UG/L	5 UG/L	67 MG/L	21 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	17 UG/L	11 UG/L	0.50 MG/L	406 UG/L	45 UG/L	17 MG/L
87/07/16	10 UG/L	10 UG/L	0.65 MG/L	2930 UG/L	45 UG/L	28 MG/L
88/07/07	10 UG/L	10 UG/L	0.40 MG/L	871 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	0.5 MG/L	5 UG/L	14 MG/L	65 MG/L	14 UG/L
87/07/16	51 UG/L	0.5 MG/L	5 UG/L	18 MG/L	147 MG/L	1455 UG/L
88/07/07	11 UG/L	0.5 MG/L	5 UG/L	15 MG/L	155 MG/L	301 UG/L

ROUBIDOUX FORMATION

AQUIFER-WELL NO.
21-003005

LEGAL DESCRIPTION
NW NW NE 20 29N 23E1M

COUNTY
OTTAWA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/24	400	280-381	1050 UMHOS/CM	582 MG/L	80 MG/L	7.8 STD UNIT
88/07/20	400	280-381	1175 UMHOS/CM	600 MG/L	79 MG/L	7.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/24	260.0 MG/L	10 UG/L	53 UG/L	5 UG/L	18 MG/L	100 MG/L
88/07/20	197.0 MG/L	10 UG/L	63 UG/L	5 UG/L	18 MG/L	102 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/24	10 UG/L	10 UG/L	0.38 MG/L	94 UG/L	45 UG/L	7 MG/L
88/07/20	10 UG/L	10 UG/L	0.36 MG/L	113 UG/L	45 UG/L	6 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/24	39 UG/L	0.5 MG/L	5 UG/L	175 MG/L	99 MG/L	57 UG/L
88/07/20	40 UG/L	0.5 MG/L	5 UG/L	183 MG/L	116 MG/L	67 UG/L

VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003023

LEGAL DESCRIPTION
SW NW NW 28 20N 07E1M

COUNTY
PAWNEE

146

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/01	56	46-56	250 UMHOS/CM	179 MG/L	156 MG/L	6.5 STD UNIT
87/07/17	56	46-56	525 UMHOS/CM	175 MG/L	110 MG/L	6.6 STD UNIT
88/07/20	56	46-56	600 UMHOS/CM	217 MG/L	148 MG/L	6.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/01	133.0 MG/L	10 UG/L	255 UG/L	5 UG/L	29 MG/L	10 MG/L
87/07/17	105.0 MG/L	10 UG/L	252 UG/L	5 UG/L	28 MG/L	10 MG/L
88/07/20	113.0 MG/L	10 UG/L	288 UG/L	5 UG/L	35 MG/L	16 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/01	12 UG/L	48 UG/L	0.22 MG/L	144 UG/L	45 UG/L	8 MG/L
87/07/17	10 UG/L	10 UG/L	0.12 MG/L	161 UG/L	45 UG/L	9 MG/L
88/07/20	10 UG/L	10 UG/L	0.14 MG/L	27 UG/L	45 UG/L	11 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/01	45 UG/L	4.1 MG/L	5 UG/L	13 MG/L	20 MG/L	84 UG/L
87/07/17	57 UG/L	2.0 MG/L	5 UG/L	10 MG/L	20 MG/L	241 UG/L
88/07/20	55 UG/L	6.2 MG/L	5 UG/L	16 MG/L	20 MG/L	6 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.

04-003033

LEGAL DESCRIPTION

SE SE SW 36.18N 02E1M

COUNTY

PAYNE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/12	180	100-178	1133 UMHOS/CM	335 MG/L	392 MG/L	NOT SAMPLED

86/08/12	ALKALINITY, TOTAL 295.0 MG/L	ARSENIC 10 UG/L	BARIUM 48 UG/L	CADMIUM 5 UG/L	CALCIUM 72 MG/L	CHLORIDE 10 MG/L
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86/08/12	CHROMIUM 10 UG/L	COPPER 21 UG/L	FLUORIDE 0.71 MG/L	IRON 380 UG/L	LEAD 45 UG/L	MAGNESIUM 37 MG/L
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86/08/12	MANGANESE, TOTAL 16 UG/L	NITRITE-NITRATE AS N 0.7 MG/L	SELENIUM 5 UG/L	SODIUM 10 MG/L	SULFATE 20 MG/L	ZINC 3320 UG/L
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ARBUCKLE-SIMPSON GROUP

147	AQUIFER-WELL NO. 19-003007	LEGAL DESCRIPTION NE NW NE 07 01N 06E1M	COUNTY PONTOTOC
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148

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/17	405	378-398	876 UMHOS/CM	600 MG/L	350 MG/L	7.0 STD UNIT
88/07/26	405	378-398	650 UMHOS/CM	454 MG/L	325 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/17	281.0 MG/L	10 UG/L	55 UG/L	5 UG/L	115 MG/L	30 MG/L
88/07/26	256.0 MG/L	10 UG/L	48 UG/L	5 UG/L	91 MG/L	24 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/17	10 UG/L	10 UG/L	0.35 MG/L	10 UG/L	45 UG/L	11 MG/L
88/07/26	10 UG/L	10 UG/L	0.30 MG/L	20 UG/L	45 UG/L	13 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/17	10 UG/L	22.4 MG/L	5 UG/L	27 MG/L	49 MG/L	1610 UG/L
88/07/26	10 UG/L	8.0 MG/L	5 UG/L	21 MG/L	51 MG/L	383 UG/L

ARBUCKLE-SIMPSON GROUP

AQUIFER-WELL NO.
19-003009

LEGAL DESCRIPTION
NE SW SW 10 02N 05EIM

COUNTY
PONTOTOC

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	115	37-75	850 UMHOS/CM	534 MG/L	10 MG/L	8.7 STD UNIT
87/08/25	115	37-75	1050 UMHOS/CM	598 MG/L	95 MG/L	7.8 STD UNIT
88/07/26	115	37-75	950 UMHOS/CM	601 MG/L	54 MG/L	8.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	455.0 MG/L	10 UG/L	10 UG/L	5 UG/L	2 MG/L	18 MG/L
87/08/25	477.0 MG/L	10 UG/L	76 UG/L	5 UG/L	14 MG/L	11 MG/L
88/07/26	509.0 MG/L	10 UG/L	44 UG/L	5 UG/L	8 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.56 MG/L	73 UG/L	45 UG/L	1 MG/L
87/08/25	10 UG/L	15 UG/L	0.50 MG/L	35 UG/L	45 UG/L	14 MG/L
88/07/26	10 UG/L	19 UG/L	0.61 MG/L	15 UG/L	45 UG/L	8 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	10 UG/L	0.5 MG/L	5 UG/L	223 MG/L	32 MG/L	5 UG/L
87/08/25	10 UG/L	0.5 MG/L	5 UG/L	203 MG/L	32 MG/L	184 UG/L
88/07/26	10 UG/L	0.5 MG/L	5 UG/L	215 MG/L	20 MG/L	125 UG/L

GERTY SAND ALLUVIUM AND TERRACE DEPOSITS

AQUIFER-WELL NO.
07-003020

LEGAL DESCRIPTION
NW NW NW 02 04N 05E1M

COUNTY
PONTOTOC

150

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	77	72-77	125 UMHOS/CM	143 MG/L	50 MG/L	6.2 STD UNIT
87/08/25	77	72-77	200 UMHOS/CM	142 MG/L	53 MG/L	6.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	87.0 MG/L	12 UG/L	184 UG/L	5 UG/L	14 MG/L	10 MG/L
87/08/25	75.0 MG/L	10 UG/L	335 UG/L	5 UG/L	12 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	43 UG/L	0.18 MG/L	1924 UG/L	45 UG/L	4 MG/L
87/08/25	10 UG/L	83 UG/L	0.42 MG/L	383 UG/L	45 UG/L	6 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	14 UG/L	0.7 MG/L	5 UG/L	19 MG/L	20 MG/L	139 UG/L
87/08/25	12 UG/L	0.5 MG/L	5 UG/L	26 MG/L	83 MG/L	105 UG/L

GERTY SAND ALLUVIUM AND TERRACE DEPOSITS

AQUIFER-WELL NO.
07-003019

LEGAL DESCRIPTION
NW NW NW 21 05N 04E1M

COUNTY
PONTOTOC

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/13	65	36-65	283 UMHOS/CM	122 MG/L	51 MG/L	NOT SAMPLED
87/07/17	65	36-65	175 UMHOS/CM	151 MG/L	52 MG/L	7.0 STD UNIT
88/07/26	65	36-65	170 UMHOS/CM	149 MG/L	56 MG/L	6.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/13	102.0 MG/L	10 UG/L	107 UG/L	5 UG/L	12 MG/L	10 MG/L
87/07/17	113.0 MG/L	10 UG/L	106 UG/L	5 UG/L	16 MG/L	10 MG/L
88/07/26	115.0 MG/L	10 UG/L	93 UG/L	5 UG/L	15 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/13	21 UG/L	10 UG/L	0.21 MG/L	148 UG/L	45 UG/L	3 MG/L
87/07/17	10 UG/L	67 UG/L	0.13 MG/L	97 UG/L	45 UG/L	4 MG/L
88/07/26	10 UG/L	18 UG/L	0.15 MG/L	32 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/13	10 UG/L	0.8 MG/L	5 UG/L	13 MG/L	20 MG/L	5 UG/L
87/07/17	10 UG/L	2.0 MG/L	5 UG/L	16 MG/L	20 MG/L	182 UG/L
88/07/26	10 UG/L	1.5 MG/L	5 UG/L	20 MG/L	20 MG/L	23 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CANADIAN RIVER

AQUIFER-WELL NO.

06-003018

LEGAL DESCRIPTION

SE SW NW 21 05N 04E1M

COUNTY

PONTOTOC

152

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
88/08/05	70	52-62	165 UMHOS/CM	140 MG/L	66 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
88/08/05	52.0 MG/L	10 UG/L	123 UG/L	5 UG/L	15 MG/L	16 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
88/08/05	10 UG/L	15 UG/L	0.10 MG/L	85 UG/L	45 UG/L	6 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
88/08/05	25 UG/L	1.2 MG/L	5 UG/L	12 MG/L	20 MG/L	17 UG/L

GERTY SAND ALLUVIUM AND TERRACE DEPOSITS

AQUIFER-WELL NO.
07-003021

LEGAL DESCRIPTION
NW SE SE 23 05N 04E1M

COUNTY
PONTOTOC

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/18	130	60-130	94 UMHOS/CM	76 MG/L	16 MG/L	5.6 STD UNIT
87/08/17	130	60-130	110 UMHOS/CM	82 MG/L	26 MG/L	7.1 STD UNIT
88/07/20	130	60-130	50 UMHOS/CM	76 MG/L	37 MG/L	5.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/18	15.0 MG/L	10 UG/L	178 UG/L	5 UG/L	5 MG/L	11 MG/L
87/08/17	40.0 MG/L	10 UG/L	231 UG/L	5 UG/L	6 MG/L	14 MG/L
88/07/20	15.0 MG/L	10 UG/L	213 UG/L	5 UG/L	5 MG/L	18 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/18	10 UG/L	10 UG/L	0.20 MG/L	7019 UG/L	45 UG/L	2 MG/L
87/08/17	10 UG/L	53 UG/L	0.10 MG/L	1977 UG/L	45 UG/L	3 MG/L
88/07/20	10 UG/L	14 UG/L	0.10 MG/L	2267 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/18	158 UG/L	0.8 MG/L	5 UG/L	12 MG/L	20 MG/L	5 UG/L
87/08/17	138 UG/L	0.5 MG/L	5 UG/L	10 MG/L	20 MG/L	11 UG/L
88/07/20	143 UG/L	0.5 MG/L	5 UG/L	10 MG/L	20 MG/L	13 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003021

LEGAL DESCRIPTION
NW NE NE 02 09N 02E1M

COUNTY
POTTAWATOMIE

154

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/18	116	76-96	225 UMHOS/CM	151 MG/L	72 MG/L	5.2 STD UNIT
87/08/25	116	76-96	225 UMHOS/CM	155 MG/L	93 MG/L	6.0 STD UNIT
88/07/20	116	76-96	175 UMHOS/CM	129 MG/L	65 MG/L	5.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/18	15.0 MG/L	10 UG/L	216 UG/L	5 UG/L	15 MG/L	34 MG/L
87/08/25	66.0 MG/L	10 UG/L	125 UG/L	5 UG/L	19 MG/L	25 MG/L
88/07/20	15.0 MG/L	10 UG/L	153 UG/L	5 UG/L	10 MG/L	36 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/18	10 UG/L	10 UG/L	0.18 MG/L	39 UG/L	45 UG/L	9 MG/L
87/08/25	10 UG/L	154 UG/L	0.10 MG/L	35 UG/L	45 UG/L	9 MG/L
88/07/20	10 UG/L	39 UG/L	0.10 MG/L	64 UG/L	45 UG/L	7 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/18	44 UG/L	9.4 MG/L	5 UG/L	18 MG/L	23 MG/L	5 UG/L
87/08/25	10 UG/L	4.4 MG/L	5 UG/L	15 MG/L	20 MG/L	77 UG/L
88/07/20	19 UG/L	4.0 MG/L	5 UG/L	19 MG/L	20 MG/L	5 UG/L

GARBER SANDSTONE AND WELLINGTON FORMATION

AQUIFER-WELL NO.
16-003020

LEGAL DESCRIPTION
NW NW SW 17 11N 02E1M

COUNTY
POTTAWATOMIE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/09/01	125	35-110	200 UMHOS/CM	184 MG/L	89 MG/L	5.6 STD UNIT
88/07/20	125	35-110	200 UMHOS/CM	161 MG/L	88 MG/L	6.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/09/01	66.0 MG/L	10 UG/L	103 UG/L	5 UG/L	20 MG/L	10 MG/L
88/07/20	56.0 MG/L	10 UG/L	108 UG/L	5 UG/L	20 MG/L	13 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/09/01	10 UG/L	55 UG/L	0.57 MG/L	38 UG/L	45 UG/L	7 MG/L
88/07/20	10 UG/L	49 UG/L	0.15 MG/L	584 UG/L	45 UG/L	7 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/09/01	30 UG/L	6.1 MG/L	5 UG/L	16 MG/L	20 MG/L	107 UG/L
88/07/20	10 UG/L	3.6 MG/L	5 UG/L	16 MG/L	20 MG/L	35 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.

05-004006

LEGAL DESCRIPTION

SW NE NE 31 11N 03E1M

COUNTY

POTTAWATOMIE

156

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/09/01	102	97-102	400 UMHOS/CM	268 MG/L	134 MG/L	5.6 STD UNIT
88/07/20	102	97-102	500 UMHOS/CM	298 MG/L	177 MG/L	6.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/09/01	132.0 MG/L	10 UG/L	574 UG/L	5 UG/L	33 MG/L	35 MG/L
88/07/20	127.0 MG/L	10 UG/L	706 UG/L	5 UG/L	39 MG/L	47 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/09/01	10 UG/L	95 UG/L	0.12 MG/L	32 UG/L	45 UG/L	12 MG/L
88/07/20	10 UG/L	122 UG/L	0.13 MG/L	27 UG/L	45 UG/L	14 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/09/01	10 UG/L	3.8 MG/L	5 UG/L	32 MG/L	24 MG/L	5 UG/L
88/07/20	10 UG/L	4.0 MG/L	5 UG/L	38 MG/L	20 MG/L	7 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.
05-004007

LEGAL DESCRIPTION
NE SE NE 22 11N 04EIM

COUNTY
POTTAWATOMIE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/29	94	74-94	750 UMHOS/CM	553 MG/L	296 MG/L	7.3 STD UNIT
88/07/14	94	74-94	875 UMHOS/CM	560 MG/L	160 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/29	215.0 MG/L	10 UG/L	131 UG/L	5 UG/L	91 MG/L	90 MG/L
88/07/14	258.0 MG/L	10 UG/L	145 UG/L	5 UG/L	90 MG/L	98 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/29	10 UG/L	11 UG/L	0.42 MG/L	226 UG/L	45 UG/L	11 MG/L
88/07/14	10 UG/L	10 UG/L	0.36 MG/L	223 UG/L	45 UG/L	13 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/29	10 UG/L	9.5 MG/L	5 UG/L	64 MG/L	62 MG/L	18 UG/L
88/07/14	10 UG/L	13.1 MG/L	7 UG/L	73 MG/L	68 MG/L	11 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
11-003121	SW SE SE 03 13N 26WIM	ROGER MILLS

158

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	104	89-104	900 UMHOS/CM	718 MG/L	481 MG/L	7.6 STD UNIT
87/07/29	104	89-104	1100 UMHOS/CM	961 MG/L	573 MG/L	8.1 STD UNIT
88/07/14			1015 UMHOS/CM	1077 MG/L	439 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	364.0 MG/L	10 UG/L	87 UG/L	5 UG/L	142 MG/L	12 MG/L
87/07/29	364.0 MG/L	10 UG/L	73 UG/L	5 UG/L	190 MG/L	151 MG/L
88/07/14	216.0 MG/L	10 UG/L	57 UG/L	5 UG/L	194 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.33 MG/L	58 UG/L	45 UG/L	38 MG/L
87/07/29	10 UG/L	10 UG/L	0.33 MG/L	10 UG/L	45 UG/L	34 MG/L
88/07/14	10 UG/L	10 UG/L	0.32 MG/L	35 UG/L	45 UG/L	49 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	10 UG/L	9.5 MG/L	5 UG/L	14 MG/L	294 MG/L	5 UG/L
87/07/29	10 UG/L	12.2 MG/L	5 UG/L	19 MG/L	202 MG/L	5 UG/L
88/07/14	10 UG/L	10.0 MG/L	5 UG/L	13 MG/L	490 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE WASHITA RIVER

AQUIFER-WELL NO.
08-003005

LEGAL DESCRIPTION
NE SW NW 36 14N 21WIM

COUNTY
ROGER MILLS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/29	142	102-142	2800 UMHOS/CM	3046 MG/L	1897 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/29	134.0 MG/L	10 UG/L	13 UG/L	5 UG/L	476 MG/L	34 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/29	10 UG/L	10 UG/L	0.41 MG/L	750 UG/L	45 UG/L	119 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/29	266 UG/L	0.5 MG/L	5 UG/L	107 MG/L	1780 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE WASHITA RIVER

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
159	08-003015	NE NE SW 15 14N 23WIM	ROGER MILLS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/22	65	10-65	700 UMHOS/CM	503 MG/L	216 MG/L	7.2 STD UNIT
87/07/29	65	10-65	675 UMHOS/CM	507 MG/L	255 MG/L	7.3 STD UNIT
88/07/14	65	10-65	600 UMHOS/CM	464 MG/L	120 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/22	315.0 MG/L	10 UG/L	145 UG/L	5 UG/L	66 MG/L	29 MG/L
87/07/29	317.0 MG/L	10 UG/L	145 UG/L	5 UG/L	65 MG/L	28 MG/L
88/07/14	301.0 MG/L	10 UG/L	115 UG/L	5 UG/L	61 MG/L	28 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/22	10 UG/L	5 UG/L	1.09 MG/L	24 UG/L	45 UG/L	15 MG/L
87/07/29	10 UG/L	10 UG/L	1.05 MG/L	44 UG/L	45 UG/L	16 MG/L
88/07/14	10 UG/L	10 UG/L	0.88 MG/L	34 UG/L	45 UG/L	14 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/22	20 UG/L	6.9 MG/L	5 UG/L	101 MG/L	52 MG/L	5 UG/L
87/07/29	10 UG/L	8.4 MG/L	5 UG/L	82 MG/L	49 MG/L	5 UG/L
88/07/14	10 UG/L	10.9 MG/L	5 UG/L	76 MG/L	43 MG/L	23 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000417

LEGAL DESCRIPTION
SW SE SW 25 14N 26WIM

COUNTY
ROGER MILLS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/20	640	255-460	NOT SAMPLED	405 MG/L	10 MG/L	7.0 STD UNIT
88/07/01	640	255-460	700 UMHOS/CM	401 MG/L	10 MG/L	9.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/20	216.0 MG/L	10 UG/L	46 UG/L	5 UG/L	2 MG/L	50 MG/L
88/07/01	139.0 MG/L	10 UG/L	53 UG/L	5 UG/L	2 MG/L	52 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/20	10 UG/L	10 UG/L	0.56 MG/L	55 UG/L	45 UG/L	1 MG/L
88/07/01	10 UG/L	10 UG/L	0.48 MG/L	38 UG/L	45 UG/L	1 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/20	10 UG/L	0.5 MG/L	5 UG/L	139 MG/L	106 MG/L	5 UG/L
88/07/01	10 UG/L	0.5 MG/L	5 UG/L	147 MG/L	36 MG/L	5 UG/L

VAMOOSA FORMATION

AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
18-003026	SW SE NE 10 08N 06E1M	SEMINOLE

162

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/01	170	60-160	1180 UMHOS/CM	369 MG/L	311 MG/L	7.0 STD UNIT
87/07/23	170	60-160	NOT SAMPLED	917 MG/L	574 MG/L	7.0 STD UNIT
88/07/26	170	60-160	1300 UMHOS/CM	1024 MG/L	697 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/01	352.0 MG/L	10 UG/L	105 UG/L	5 UG/L	55 MG/L	16 MG/L
87/07/23	340.0 MG/L	10 UG/L	27 UG/L	5 UG/L	110 MG/L	36 MG/L
88/07/26	294.0 MG/L	10 UG/L	35 UG/L	5 UG/L	129 MG/L	39 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/01	10 UG/L	37 UG/L	0.41 MG/L	27 UG/L	45 UG/L	36 MG/L
87/07/23	10 UG/L	10 UG/L	0.26 MG/L	386 UG/L	45 UG/L	67 MG/L
88/07/26	10 UG/L	10 UG/L	0.28 MG/L	286 UG/L	45 UG/L	78 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/01	10 UG/L	0.5 MG/L	5 UG/L	43 MG/L	20 MG/L	5 UG/L
87/07/23	28 UG/L	0.5 MG/L	5 UG/L	46 MG/L	315 MG/L	21 UG/L
88/07/26	26 UG/L	0.5 MG/L	5 UG/L	48 MG/L	439 MG/L	13 UG/L

VAMOOSA FORMATION

AQUIFER-WELL NO.
18-003020

LEGAL DESCRIPTION
NW SW NW 34 10N 06E1M

COUNTY
SEMINOLE

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/28	110	90-100	900 UMHOS/CM	704 MG/L	541 MG/L	6.7 STD UNIT
88/07/07	110	90-100	2000 UMHOS/CM	545 MG/L	440 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/28	418.0 MG/L	10 UG/L	1630 UG/L	5 UG/L	113 MG/L	87 MG/L
88/07/07	415.0 MG/L	10 UG/L	858 UG/L	5 UG/L	90 MG/L	54 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/28	10 UG/L	10 UG/L	0.26 MG/L	11 UG/L	45 UG/L	60 MG/L
88/07/07	10 UG/L	10 UG/L	0.19 MG/L	11 UG/L	45 UG/L	45 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/28	10 UG/L	8.2 MG/L	5 UG/L	24 MG/L	20 MG/L	5 UG/L
88/07/07	10 UG/L	8.4 MG/L	5 UG/L	27 MG/L	20 MG/L	19 UG/L

OSCAR FORMATION

AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
17-003007	NE SE SE 21 01N 07WIM	STEPHENS

164

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/24	130	120-130	456 UMHOS/CM	379 MG/L	283 MG/L	6.8 STD UNIT
88/07/07	130	120-130	800 UMHOS/CM	360 MG/L	256 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/24	298.0 MG/L	10 UG/L	451 UG/L	5 UG/L	60 MG/L	18 MG/L
88/07/07	308.0 MG/L	10 UG/L	492 UG/L	5 UG/L	62 MG/L	24 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/24	10 UG/L	17 UG/L	0.41 MG/L	10 UG/L	45 UG/L	27 MG/L
88/07/07	10 UG/L	10 UG/L	0.43 MG/L	40 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/24	10 UG/L	1.9 MG/L	7 UG/L	17 MG/L	28 MG/L	5 UG/L
88/07/07	10 UG/L	1.4 MG/L	5 UG/L	22 MG/L	20 MG/L	10 UG/L

OSCAR FORMATION

AQUIFER-WELL NO.
17-003005

LEGAL DESCRIPTION
SW SW NW 29 01N 08W1M

COUNTY
STEPHENS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	359	229-355	550 UMHOS/CM	318 MG/L	227 MG/L	7.3 STD UNIT
87/07/07	359	229-355	590 UMHOS/CM	428 MG/L	286 MG/L	7.5 STD UNIT
88/08/17	359	229-355	400 UMHOS/CM	311 MG/L	214 MG/L	7.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	194.0 MG/L	10 UG/L	51 UG/L	5 UG/L	48 MG/L	17 MG/L
87/07/07	207.0 MG/L	10 UG/L	36 UG/L	5 UG/L	55 MG/L	13 MG/L
88/08/17	193.0 MG/L	10 UG/L	47 UG/L	5 UG/L	38 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	17 UG/L	1.98 MG/L	163 UG/L	45 UG/L	26 MG/L
87/07/07	10 UG/L	10 UG/L	1.84 MG/L	10 UG/L	45 UG/L	35 MG/L
88/08/17	10 UG/L	10 UG/L	1.77 MG/L	31 UG/L	45 UG/L	24 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	19 UG/L	1.9 MG/L	5 UG/L	26 MG/L	60 MG/L	5 UG/L
87/07/07	10 UG/L	3.8 MG/L	5 UG/L	42 MG/L	128 MG/L	10 UG/L
88/08/17	10 UG/L	2.3 MG/L	5 UG/L	26 MG/L	53 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003007

LEGAL DESCRIPTION
NE SE SE 32 01N 12ECM

COUNTY
TEXAS

166

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	410	210-410	700 UMHOS/CM	442 MG/L	316 MG/L	7.3 STD UNIT
87/08/19	410	210-410	600 UMHOS/CM	435 MG/L	281 MG/L	7.0 STD UNIT
88/08/09	410	210-410	675 UMHOS/CM	446 MG/L	277 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	234.0 MG/L	10 UG/L	31 UG/L	5 UG/L	53 MG/L	26 MG/L
87/08/19	212.0 MG/L	10 UG/L	42 UG/L	5 UG/L	56 MG/L	26 MG/L
88/08/09	214.0 MG/L	10 UG/L	52 UG/L	5 UG/L	54 MG/L	32 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	42 UG/L	2.00 MG/L	242 UG/L	45 UG/L	33 MG/L
87/08/19	10 UG/L	10 UG/L	1.93 MG/L	1130 UG/L	45 UG/L	34 MG/L
88/08/09	10 UG/L	58 UG/L	1.94 MG/L	324 UG/L	45 UG/L	33 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	1.7 MG/L	5 UG/L	44 MG/L	128 MG/L	5 UG/L
87/08/19	14 UG/L	1.9 MG/L	5 UG/L	41 MG/L	117 MG/L	5 UG/L
88/08/09	10 UG/L	2.0 MG/L	5 UG/L	43 MG/L	113 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000108

LEGAL DESCRIPTION
NW NW NW 05 02N 16ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	440	120-440	700 UMHOS/CM	427 MG/L	302 MG/L	7.2 STD UNIT
87/07/06	440	120-440	1100 UMHOS/CM	669 MG/L	348 MG/L	7.4 STD UNIT
88/08/09	440	120-440	625 UMHOS/CM	410 MG/L	262 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	201.0 MG/L	10 UG/L	30 UG/L	5 UG/L	52 MG/L	31 MG/L
87/07/06	177.0 MG/L	10 UG/L	30 UG/L	5 UG/L	61 MG/L	133 MG/L
88/08/09	193.0 MG/L	10 UG/L	53 UG/L	5 UG/L	53 MG/L	37 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	2.01 MG/L	76 UG/L	45 UG/L	29 MG/L
87/07/06	10 UG/L	10 UG/L	2.04 MG/L	46 UG/L	45 UG/L	38 MG/L
88/08/09	10 UG/L	10 UG/L	1.87 MG/L	113 UG/L	45 UG/L	31 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	2.1 MG/L	5 UG/L	31 MG/L	92 MG/L	327 UG/L
87/07/06	10 UG/L	2.6 MG/L	5 UG/L	65 MG/L	136 MG/L	7 UG/L
88/08/09	10 UG/L	2.4 MG/L	5 UG/L	33 MG/L	93 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003003

LEGAL DESCRIPTION
NE SW NE 26 02N 17ECM

COUNTY
TEXAS

168

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	293	123-293	700 UMHOS/CM	448 MG/L	398 MG/L	7.3 STD UNIT
87/07/06	293	123-293	700 UMHOS/CM	479 MG/L	304 MG/L	7.4 STD UNIT
88/08/09	293	123-293	625 UMHOS/CM	458 MG/L	314 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	196.0 MG/L	10 UG/L	76 UG/L	5 UG/L	55 MG/L	77 MG/L
87/07/06	183.0 MG/L	10 UG/L	65 UG/L	5 UG/L	54 MG/L	69 MG/L
88/08/09	183.0 MG/L	14 UG/L	78 UG/L	5 UG/L	56 MG/L	75 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	12 UG/L	2.70 MG/L	1935 UG/L	45 UG/L	37 MG/L
87/07/06	10 UG/L	10 UG/L	2.60 MG/L	43 UG/L	45 UG/L	38 MG/L
88/08/09	10 UG/L	10 UG/L	2.50 MG/L	15 UG/L	45 UG/L	39 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	11 UG/L	4.0 MG/L	5 UG/L	25 MG/L	67 MG/L	5 UG/L
87/07/06	10 UG/L	4.4 MG/L	5 UG/L	22 MG/L	55 MG/L	9 UG/L
88/08/09	10 UG/L	4.3 MG/L	5 UG/L	23 MG/L	65 MG/L	7 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003014

LEGAL DESCRIPTION
NW NW SW 29 02N 18ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/06	350	140-350	450 UMHOS/CM	349 MG/L	292 MG/L	7.7 STD UNIT
87/08/18	350	140-350	450 UMHOS/CM	307 MG/L	200 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/06	180.0 MG/L	10 UG/L	80 UG/L	5 UG/L	33 MG/L	39 MG/L
87/08/18	266.0 MG/L	10 UG/L	45 UG/L	5 UG/L	28 MG/L	18 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/06	10 UG/L	14 UG/L	2.53 MG/L	38 UG/L	45 UG/L	30 MG/L
87/08/18	10 UG/L	10 UG/L	3.56 MG/L	15 UG/L	45 UG/L	29 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/06	10 UG/L	5.2 MG/L	5 UG/L	35 MG/L	47 MG/L	5 UG/L
87/08/18	10 UG/L	2.8 MG/L	5 UG/L	41 MG/L	61 MG/L	5 UG/L

OGALLALA FORMATION

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
169	11-003109	NW SE NW 24 03N 10ECM	TEXAS

170

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	358	180-358	550 UMHOS/CM	371 MG/L	288 MG/L	7.3 STD UNIT
87/07/07	358	180-358	560 UMHOS/CM	411 MG/L	264 MG/L	7.3 STD UNIT
88/08/09	358	180-358	1000 UMHOS/CM	406 MG/L	262 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	209.0 MG/L	10 UG/L	44 UG/L	5 UG/L	52 MG/L	16 MG/L
87/07/07	205.0 MG/L	10 UG/L	34 UG/L	5 UG/L	52 MG/L	14 MG/L
88/08/09	220.0 MG/L	10 UG/L	40 UG/L	5 UG/L	53 MG/L	19 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	1.94 MG/L	158 UG/L	45 UG/L	28 MG/L
87/07/07	10 UG/L	41 UG/L	1.90 MG/L	147 UG/L	45 UG/L	30 MG/L
88/08/09	10 UG/L	37 UG/L	1.90 MG/L	122 UG/L	45 UG/L	30 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	3.4 MG/L	5 UG/L	27 MG/L	80 MG/L	5 UG/L
87/07/07	10 UG/L	4.0 MG/L	5 UG/L	31 MG/L	74 MG/L	90 UG/L
88/08/09	10 UG/L	3.4 MG/L	5 UG/L	32 MG/L	95 MG/L	11 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003004

LEGAL DESCRIPTION
NE SW SE 30 03N 15ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	260	230-250	525 UMHOS/CM	351 MG/L	275 MG/L	7.5 STD UNIT
87/07/07	260	230-250	550 UMHOS/CM	347 MG/L	242 MG/L	7.4 STD UNIT
88/08/09	260	230-250	500 UMHOS/CM	337 MG/L	243 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	209.0 MG/L	15 UG/L	54 UG/L	5 UG/L	40 MG/L	27 MG/L
87/07/07	182.0 MG/L	10 UG/L	68 UG/L	5 UG/L	46 MG/L	22 MG/L
88/08/09	192.0 MG/L	10 UG/L	92 UG/L	9 UG/L	40 MG/L	28 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	10 UG/L	1.65 MG/L	10 UG/L	45 UG/L	32 MG/L
87/07/07	10 UG/L	10 UG/L	1.52 MG/L	657 UG/L	45 UG/L	35 MG/L
88/08/09	15 UG/L	17 UG/L	1.48 MG/L	129 UG/L	45 UG/L	32 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	3.0 MG/L	8 UG/L	19 MG/L	51 MG/L	5 UG/L
87/07/07	14 UG/L	3.5 MG/L	5 UG/L	16 MG/L	44 MG/L	18 UG/L
88/08/09	11 UG/L	3.7 MG/L	5 UG/L	19 MG/L	56 MG/L	21 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003001

LEGAL DESCRIPTION
NW SW NW 01 03N 18ECM

COUNTY
TEXAS

172

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	481	141-481	750 UMHOS/CM	367 MG/L	440 MG/L	7.8 STD UNIT
87/07/07	481	141-481	800 UMHOS/CM	663 MG/L	382 MG/L	7.3 STD UNIT
88/08/09	481	141-481	700 UMHOS/CM	623 MG/L	367 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	171.0 MG/L	10 UG/L	27 UG/L	5 UG/L	80 MG/L	19 MG/L
87/07/07	151.0 MG/L	10 UG/L	21 UG/L	5 UG/L	85 MG/L	14 MG/L
88/08/09	162.0 MG/L	10 UG/L	28 UG/L	5 UG/L	84 MG/L	17 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	52 UG/L	0.63 MG/L	917 UG/L	45 UG/L	33 MG/L
87/07/07	10 UG/L	10 UG/L	0.65 MG/L	21 UG/L	45 UG/L	37 MG/L
88/08/09	10 UG/L	10 UG/L	0.64 MG/L	96 UG/L	45 UG/L	35 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	12 UG/L	2.5 MG/L	5 UG/L	44 MG/L	251 MG/L	5 UG/L
87/07/07	10 UG/L	3.2 MG/L	5 UG/L	39 MG/L	276 MG/L	5 UG/L
88/08/09	10 UG/L	2.8 MG/L	5 UG/L	42 MG/L	278 MG/L	9 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000023

LEGAL DESCRIPTION
SW NW NE 17 04N 17ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	560	200-540	520 UMHOS/CM	617 MG/L	338 MG/L	7.5 STD UNIT
87/07/07	560	200-540	550 UMHOS/CM	369 MG/L	252 MG/L	6.9 STD UNIT
88/08/09	560	200-540	475 UMHOS/CM	363 MG/L	240 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	173.0 MG/L	10 UG/L	42 UG/L	5 UG/L	56 MG/L	23 MG/L
87/07/07	159.0 MG/L	10 UG/L	41 UG/L	5 UG/L	57 MG/L	25 MG/L
88/08/09	174.0 MG/L	10 UG/L	57 UG/L	5 UG/L	52 MG/L	23 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	10 UG/L	0.88 MG/L	31 UG/L	45 UG/L	26 MG/L
87/07/07	10 UG/L	10 UG/L	0.90 MG/L	106 UG/L	45 UG/L	28 MG/L
88/08/09	10 UG/L	10 UG/L	0.84 MG/L	34 UG/L	45 UG/L	26 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	3.6 MG/L	5 UG/L	20 MG/L	84 MG/L	5 UG/L
87/07/07	10 UG/L	3.9 MG/L	5 UG/L	20 MG/L	79 MG/L	5 UG/L
88/08/09	10 UG/L	3.4 MG/L	5 UG/L	20 MG/L	75 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000025

LEGAL DESCRIPTION
NW NE SE 06 04N 18ECM

COUNTY
TEXAS

174

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	348	140-348	650 UMHOS/CM	363 MG/L	324 MG/L	7.5 STD UNIT
87/07/09	348	140-348	900 UMHOS/CM	785 MG/L	270 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	208.0 MG/L	10 UG/L	46 UG/L	5 UG/L	43 MG/L	58 MG/L
87/07/09	169.0 MG/L	10 UG/L	37 UG/L	5 UG/L	57 MG/L	102 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	10 UG/L	1.37 MG/L	115 UG/L	45 UG/L	28 MG/L
87/07/09	10 UG/L	10 UG/L	0.64 MG/L	39 UG/L	45 UG/L	31 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.3 MG/L	5 UG/L	55 MG/L	85 MG/L	5 UG/L
87/07/09	10 UG/L	0.5 MG/L	5 UG/L	111 MG/L	207 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000001

LEGAL DESCRIPTION
NW NW NW 34 04N 19ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/07	354	200-354	430 UMHOS/CM	277 MG/L	186 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/07	188.0 MG/L	10 UG/L	63 UG/L	5 UG/L	30 MG/L	11 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/07	10 UG/L	10 UG/L	2.10 MG/L	62 UG/L	45 UG/L	27 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/07	10 UG/L	2.1 MG/L	5 UG/L	31 MG/L	40 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003123

LEGAL DESCRIPTION
NW NW SE 01 05N 10ECM

COUNTY
TEXAS

176

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	410	220-410	450 UMHOS/CM	341 MG/L	340 MG/L	7.9 STD UNIT
87/07/07	410	220-410	510 UMHOS/CM	341 MG/L	206 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	212.0 MG/L	10 UG/L	42 UG/L	5 UG/L	31 MG/L	29 MG/L
87/07/07	188.0 MG/L	10 UG/L	37 UG/L	5 UG/L	33 MG/L	21 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	1.74 MG/L	95 UG/L	45 UG/L	26 MG/L
87/07/07	10 UG/L	10 UG/L	1.98 MG/L	20 UG/L	45 UG/L	29 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	5.4 MG/L	5 UG/L	36 MG/L	54 MG/L	5 UG/L
87/07/07	10 UG/L	2.9 MG/L	5 UG/L	24 MG/L	57 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003016

LEGAL DESCRIPTION
NW NW NW 02 05N 11ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	400	170-400	950 UMHOS/CM	663 MG/L	411 MG/L	7.3 STD UNIT
87/08/18	400	170-400	750 UMHOS/CM	645 MG/L	381 MG/L	7.2 STD UNIT
88/08/09	400	170-400	900 UMHOS/CM	672 MG/L	382 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	250.0 MG/L	10 UG/L	22 UG/L	5 UG/L	84 MG/L	30 MG/L
87/08/18	300.0 MG/L	10 UG/L	19 UG/L	5 UG/L	84 MG/L	29 MG/L
88/08/09	257.0 MG/L	10 UG/L	35 UG/L	5 UG/L	81 MG/L	31 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	12 UG/L	1.03 MG/L	60 UG/L	45 UG/L	37 MG/L
87/08/18	10 UG/L	10 UG/L	0.91 MG/L	31 UG/L	45 UG/L	39 MG/L
88/08/09	10 UG/L	10 UG/L	0.87 MG/L	43 UG/L	45 UG/L	36 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	1.4 MG/L	5 UG/L	72 MG/L	216 MG/L	5 UG/L
87/08/18	10 UG/L	1.4 MG/L	5 UG/L	71 MG/L	225 MG/L	5 UG/L
88/08/09	10 UG/L	1.5 MG/L	5 UG/L	69 MG/L	246 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000120

LEGAL DESCRIPTION
SW SE NE 01 05N 14ECM

COUNTY
TEXAS

178

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	367	167-367	350 UMHOS/CM	250 MG/L	272 MG/L	7.0 STD UNIT

86/08/05	ALKALINITY, TOTAL 190.0 MG/L	ARSENIC 10 UG/L	BARIUM 111 UG/L	CADMIUM 5 UG/L	CALCIUM 35 MG/L	CHLORIDE 14 MG/L
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86/08/05	CHROMIUM 10 UG/L	COPPER 10 UG/L	FLUORIDE 1.40 MG/L	IRON 27 UG/L	LEAD 45 UG/L	MAGNESIUM 22 MG/L
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86/08/05	MANGANESE, TOTAL 10 UG/L	NITRITE-NITRATE AS N 3.3 MG/L	SELENIUM 5 UG/L	SODIUM 17 MG/L	SULFATE 20 MG/L	ZINC 5 UG/L
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OGALLALA FORMATION

AQUIFER-WELL NO.
11-003034

LEGAL DESCRIPTION
NE NW SE 34 05N 14ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	630	350-630	600 UMHOS/CM	400 MG/L	372 MG/L	7.4 STD UNIT
87/07/07	630	350-630	700 UMHOS/CM	448 MG/L	294 MG/L	7.3 STD UNIT
88/08/09	630	350-630	550 UMHOS/CM	441 MG/L	283 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	165.0 MG/L	10 UG/L	28 UG/L	5 UG/L	69 MG/L	18 MG/L
87/07/07	148.0 MG/L	10 UG/L	18 UG/L	5 UG/L	80 MG/L	15 MG/L
88/08/09	156.0 MG/L	10 UG/L	41 UG/L	5 UG/L	75 MG/L	20 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	12 UG/L	10 UG/L	0.49 MG/L	187 UG/L	45 UG/L	19 MG/L
87/07/07	10 UG/L	10 UG/L	0.44 MG/L	14 UG/L	45 UG/L	20 MG/L
88/08/09	10 UG/L	10 UG/L	0.40 MG/L	88 UG/L	45 UG/L	18 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.9 MG/L	5 UG/L	24 MG/L	133 MG/L	5 UG/L
87/07/07	10 UG/L	3.4 MG/L	5 UG/L	22 MG/L	151 MG/L	5 UG/L
88/08/09	10 UG/L	3.2 MG/L	5 UG/L	23 MG/L	148 MG/L	7 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003033

LEGAL DESCRIPTION
NW NW SW 08 05N 16ECM

COUNTY
TEXAS

180

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	529	140-529	500 UMHOS/CM	373 MG/L	274 MG/L	8.2 STD UNIT
87/07/07	529	140-529	575 UMHOS/CM	338 MG/L	212 MG/L	7.6 STD UNIT
88/08/09	529	140-529	475 UMHOS/CM	345 MG/L	219 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	168.0 MG/L	10 UG/L	37 UG/L	5 UG/L	52 MG/L	17 MG/L
87/07/07	152.0 MG/L	10 UG/L	35 UG/L	5 UG/L	47 MG/L	10 MG/L
88/08/09	175.0 MG/L	10 UG/L	50 UG/L	5 UG/L	47 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	12 UG/L	10 UG/L	0.87 MG/L	121 UG/L	45 UG/L	22 MG/L
87/07/07	10 UG/L	10 UG/L	0.64 MG/L	13 UG/L	45 UG/L	23 MG/L
88/08/09	10 UG/L	10 UG/L	0.65 MG/L	49 UG/L	45 UG/L	23 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.9 MG/L	5 UG/L	26 MG/L	98 MG/L	5 UG/L
87/07/07	10 UG/L	3.3 MG/L	5 UG/L	20 MG/L	72 MG/L	5 UG/L
88/08/09	10 UG/L	3.1 MG/L	5 UG/L	27 MG/L	87 MG/L	9 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003005

LEGAL DESCRIPTION
NW NE SE 28 05N 17ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	560	260-560	450 UMHOS/CM	304 MG/L	218 MG/L	7.5 STD UNIT
87/08/17	560	260-560	650 UMHOS/CM	300 MG/L	188 MG/L	7.4 STD UNIT
88/08/09	560	260-560	545 UMHOS/CM	289 MG/L	184 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	209.0 MG/L	10 UG/L	57 UG/L	5 UG/L	36 MG/L	13 MG/L
87/08/17	192.0 MG/L	10 UG/L	54 UG/L	5 UG/L	37 MG/L	10 MG/L
88/08/09	196.0 MG/L	10 UG/L	51 UG/L	5 UG/L	37 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	28 UG/L	0.67 MG/L	697 UG/L	45 UG/L	20 MG/L
87/08/17	10 UG/L	10 UG/L	0.62 MG/L	17 UG/L	45 UG/L	21 MG/L
88/08/09	10 UG/L	10 UG/L	0.65 MG/L	47 UG/L	45 UG/L	21 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	1.7 MG/L	5 UG/L	34 MG/L	50 MG/L	5 UG/L
87/08/17	10 UG/L	1.9 MG/L	5 UG/L	30 MG/L	41 MG/L	5 UG/L
88/08/09	10 UG/L	2.0 MG/L	5 UG/L	31 MG/L	43 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000105

LEGAL DESCRIPTION
NE NW SW 27 05N 18ECM

COUNTY
TEXAS

182

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	562	302-562	500 UMHOS/CM	340 MG/L	228 MG/L	7.4 STD UNIT
87/08/17	562	302-562	800 UMHOS/CM	352 MG/L	200 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	213.0 MG/L	10 UG/L	66 UG/L	5 UG/L	35 MG/L	17 MG/L
87/08/17	194.0 MG/L	10 UG/L	64 UG/L	5 UG/L	37 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	13 UG/L	0.97 MG/L	278 UG/L	45 UG/L	22 MG/L
87/08/17	10 UG/L	10 UG/L	0.99 MG/L	35 UG/L	45 UG/L	24 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	1.7 MG/L	5 UG/L	40 MG/L	74 MG/L	5 UG/L
87/08/17	10 UG/L	1.8 MG/L	9 UG/L	36 MG/L	64 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000007

LEGAL DESCRIPTION
NW SW SE 28 05N 19ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	417	260-417	900 UMHOS/CM	624 MG/L	435 MG/L	7.8 STD UNIT
87/07/07	417	260-417	925 UMHOS/CM	621 MG/L	392 MG/L	7.1 STD UNIT
88/08/17	417	260-417	900 UMHOS/CM	649 MG/L	396 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	317.0 MG/L	10 UG/L	20 UG/L	5 UG/L	79 MG/L	27 MG/L
87/07/07	311.0 MG/L	10 UG/L	17 UG/L	5 UG/L	75 MG/L	22 MG/L
88/08/17	307.0 MG/L	10 UG/L	25 UG/L	5 UG/L	72 MG/L	200 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	10 UG/L	1.05 MG/L	52 UG/L	45 UG/L	47 MG/L
87/07/07	10 UG/L	10 UG/L	0.94 MG/L	62 UG/L	45 UG/L	45 MG/L
88/08/17	10 UG/L	10 UG/L	0.94 MG/L	25 UG/L	45 UG/L	44 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	1.2 MG/L	5 UG/L	69 MG/L	213 MG/L	5 UG/L
87/07/07	10 UG/L	1.7 MG/L	5 UG/L	62 MG/L	191 MG/L	5 UG/L
88/08/17	10 UG/L	1.4 MG/L	5 UG/L	64 MG/L	207 MG/L	5 UG/L

OGALLALA FORMATION

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
183	11-003035	SW NW SE 29 06N 13ECM	TEXAS

184

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/04	362	162-362	800 UMHOS/CM	603 MG/L	373 MG/L	7.4 STD UNIT
87/08/18	362	162-362	600 UMHOS/CM	551 MG/L	314 MG/L	7.4 STD UNIT
88/08/17	362	162-362	600 UMHOS/CM	554 MG/L	320 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/04	148.0 MG/L	10 UG/L	18 UG/L	5 UG/L	83 MG/L	24 MG/L
87/08/18	167.0 MG/L	10 UG/L	19 UG/L	5 UG/L	84 MG/L	23 MG/L
88/08/17	180.0 MG/L	10 UG/L	25 UG/L	5 UG/L	79 MG/L	26 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/04	10 UG/L	13 UG/L	0.56 MG/L	19 UG/L	45 UG/L	23 MG/L
87/08/18	10 UG/L	10 UG/L	0.39 MG/L	18 UG/L	45 UG/L	24 MG/L
88/08/17	10 UG/L	10 UG/L	0.44 MG/L	88 UG/L	45 UG/L	22 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/04	10 UG/L	2.3 MG/L	5 UG/L	46 MG/L	221 MG/L	5 UG/L
87/08/18	10 UG/L	2.4 MG/L	5 UG/L	43 MG/L	194 MG/L	5 UG/L
88/08/17	10 UG/L	2.1 MG/L	5 UG/L	43 MG/L	194 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000119

LEGAL DESCRIPTION
SW SW NW 29 06N 15ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	435	130-435	550 UMHOS/CM	527 MG/L	328 MG/L	7.3 STD UNIT
87/08/17	435	130-435	425 UMHOS/CM	212 MG/L	247 MG/L	7.2 STD UNIT
88/08/09	435	130-435	550 UMHOS/CM	448 MG/L	265 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	181.0 MG/L	10 UG/L	37 UG/L	5 UG/L	63 MG/L	29 MG/L
87/08/17	162.0 MG/L	10 UG/L	33 UG/L	5 UG/L	64 MG/L	26 MG/L
88/08/09	156.0 MG/L	10 UG/L	69 UG/L	5 UG/L	69 MG/L	42 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	10 UG/L	16 UG/L	0.58 MG/L	64 UG/L	45 UG/L	18 MG/L
87/08/17	10 UG/L	10 UG/L	0.53 MG/L	22 UG/L	45 UG/L	19 MG/L
88/08/09	10 UG/L	10 UG/L	0.50 MG/L	80 UG/L	45 UG/L	21 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	4.2 MG/L	5 UG/L	22 MG/L	82 MG/L	5 UG/L
87/08/17	10 UG/L	4.3 MG/L	5 UG/L	19 MG/L	77 MG/L	5 UG/L
88/08/09	10 UG/L	4.0 MG/L	8 UG/L	23 MG/L	100 MG/L	18 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000016

LEGAL DESCRIPTION
NW NW SE 14 06N 17ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/07	465	125-465	525 UMHOS/CM	342 MG/L	216 MG/L	7.4 STD UNIT
88/08/09	465	125-465	500 UMHOS/CM	331 MG/L	209 MG/L	7.4 STD UNIT
86/08/04	465	125-465	450 UMHOS/CM	333 MG/L	249 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/07	174.0 MG/L	10 UG/L	48 UG/L	5 UG/L	51 MG/L	13 MG/L
88/08/09	189.0 MG/L	11 UG/L	64 UG/L	5 UG/L	49 MG/L	14 MG/L
86/08/04	195.0 MG/L	10 UG/L	49 UG/L	5 UG/L	48 MG/L	17 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/07	10 UG/L	10 UG/L	0.68 MG/L	75 UG/L	45 UG/L	22 MG/L
88/08/09	10 UG/L	10 UG/L	0.60 MG/L	17 UG/L	45 UG/L	21 MG/L
86/08/04	13 UG/L	10 UG/L	0.68 MG/L	1501 UG/L	45 UG/L	21 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/07	10 UG/L	3.8 MG/L	10 UG/L	25 MG/L	56 MG/L	52 UG/L
88/08/09	10 UG/L	3.3 MG/L	7 UG/L	30 MG/L	65 MG/L	15 UG/L
86/08/04	10 UG/L	3.1 MG/L	5 UG/L	28 MG/L	63 MG/L	5 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-000111

LEGAL DESCRIPTION
SW SW NW 25 06N 18ECM

COUNTY
TEXAS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/11	50	47-50	410 UMHOS/CM	502 MG/L	231 MG/L	7.4 STD UNIT
87/08/31	50	47-50	750 UMHOS/CM	523 MG/L	251 MG/L	6.8 STD UNIT
88/07/13	50	47-50		500 MG/L	258 MG/L	6.9 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/11	332.0 MG/L	10 UG/L	72 UG/L	5 UG/L	65 MG/L	34 MG/L
87/08/31	299.0 MG/L	10 UG/L	77 UG/L	5 UG/L	68 MG/L	37 MG/L
88/07/13	223.0 MG/L	10 UG/L	84 UG/L	5 UG/L	70 MG/L	35 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/11	10 UG/L	26 UG/L	0.82 MG/L	100 UG/L	45 UG/L	12 MG/L
87/08/31	10 UG/L	10 UG/L	0.76 MG/L	22 UG/L	45 UG/L	13 MG/L
88/07/13	10 UG/L	10 UG/L	0.75 MG/L	58 UG/L	45 UG/L	13 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/11	20 UG/L	10.7 MG/L	5 UG/L	95 MG/L	51 MG/L	368 UG/L
87/08/31	10 UG/L	11.7 MG/L	5 UG/L	77 MG/L	39 MG/L	328 UG/L
88/07/13	10 UG/L	9.7 MG/L	5 UG/L	82 MG/L	44 MG/L	212 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE NORTH FORK OF THE RED RIVER

AQUIFER-WELL NO.

09-003018

LEGAL DESCRIPTION

NW NW NW 34 01S 18W1M

COUNTY

TILLMAN

188

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	52	36-41	450 UMHOS/CM	202 MG/L	167 MG/L	7.5 STD UNIT
87/07/10	52	36-41	550 UMHOS/CM	224 MG/L	152 MG/L	6.8 STD UNIT
88/07/05	52	36-41	550 UMHOS/CM	214 MG/L	139 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	73.0 MG/L	10 UG/L	50 UG/L	5 UG/L	36 MG/L	24 MG/L
87/07/10	116.0 MG/L	10 UG/L	65 UG/L	5 UG/L	44 MG/L	22 MG/L
88/07/05	95.0 MG/L	10 UG/L	60 UG/L	5 UG/L	46 MG/L	16 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	1.04 MG/L	26 UG/L	45 UG/L	7 MG/L
87/07/10	10 UG/L	10 UG/L	0.97 MG/L	43 UG/L	45 UG/L	8 MG/L
88/07/05	10 UG/L	10 UG/L	1.09 MG/L	78 UG/L	45 UG/L	7 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	0.5 MG/L	5 UG/L	18 MG/L	53 MG/L	5 UG/L
87/07/10	17 UG/L	0.5 MG/L	5 UG/L	12 MG/L	44 MG/L	20 UG/L
88/07/05	10 UG/L	0.5 MG/L	6 UG/L	11 MG/L	52 MG/L	10 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ARKANSAS RIVER

AQUIFER-WELL NO.

02-001004

LEGAL DESCRIPTION

NE NE SE 17 18N 13E1M

COUNTY

TULSA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/08/05	65	60-65	175 UMHOS/CM	141 MG/L	56 MG/L	7.6 STD UNIT
87/07/10	65	60-65	325 UMHOS/CM	193 MG/L	62 MG/L	6.2 STD UNIT
88/07/05	65	60-65	290 UMHOS/CM	163 MG/L	33 MG/L	6.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/08/05	15.0 MG/L	10 UG/L	104 UG/L	5 UG/L	14 MG/L	15 MG/L
87/07/10	26.0 MG/L	10 UG/L	119 UG/L	5 UG/L	16 MG/L	16 MG/L
88/07/05	24.0 MG/L	10 UG/L	102 UG/L	5 UG/L	14 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/08/05	19 UG/L	71 UG/L	0.16 MG/L	409 UG/L	45 UG/L	3 MG/L
87/07/10	10 UG/L	15 UG/L	0.10 MG/L	114 UG/L	45 UG/L	3 MG/L
88/07/05	10 UG/L	39 UG/L	0.10 MG/L	122 UG/L	45 UG/L	3 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/08/05	10 UG/L	1.1 MG/L	5 UG/L	10 MG/L	20 MG/L	45 UG/L
87/07/10	10 UG/L	11.9 MG/L	5 UG/L	10 MG/L	20 MG/L	360 UG/L
88/07/05	10 UG/L	7.4 MG/L	5 UG/L	11 MG/L	20 MG/L	105 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ARKANSAS RIVER

AQUIFER-WELL NO.

02-001007

LEGAL DESCRIPTION

NE SE NW 33 18N 14E1M

COUNTY

TULSA

190

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	37	33-37	250 UMHOS/CM	137 MG/L	30 MG/L	7.3 STD UNIT
87/07/10	37	33-37	350 UMHOS/CM	139 MG/L	40 MG/L	6.6 STD UNIT
88/07/05	37	33-37	350 UMHOS/CM	139 MG/L	18 MG/L	6.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	68.0 MG/L	10 UG/L	113 UG/L	5 UG/L	10 MG/L	10 MG/L
87/07/10	61.0 MG/L	10 UG/L	109 UG/L	5 UG/L	9 MG/L	10 MG/L
88/07/05	71.0 MG/L	10 UG/L	108 UG/L	5 UG/L	14 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.26 MG/L	38 UG/L	45 UG/L	3 MG/L
87/07/10	10 UG/L	10 UG/L	0.19 MG/L	143 UG/L	45 UG/L	3 MG/L
88/07/05	10 UG/L	31 UG/L	0.20 MG/L	82 UG/L	45 UG/L	4 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	10 UG/L	3.0 MG/L	5 UG/L	21 MG/L	20 MG/L	3316 UG/L
87/07/10	10 UG/L	4.3 MG/L	5 UG/L	21 MG/L	20 MG/L	799 UG/L
88/07/05	10 UG/L	4.5 MG/L	5 UG/L	27 MG/L	20 MG/L	189 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
02-003027

LEGAL DESCRIPTION
NE NW NE 23 16N 16E1M

COUNTY
WAGONER

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/16	50	22-50	350 UMHOS/CM	224 MG/L	77 MG/L	7.3 STD UNIT
87/07/10	50	22-50	525 UMHOS/CM	248 MG/L	100 MG/L	7.0 STD UNIT
88/07/05	50	22-50	525 UMHOS/CM	235 MG/L	68 MG/L	7.5 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/16	191.0 MG/L	10 UG/L	50 UG/L	5 UG/L	23 MG/L	10 MG/L
87/07/10	216.0 MG/L	10 UG/L	48 UG/L	5 UG/L	25 MG/L	10 MG/L
88/07/05	209.0 MG/L	10 UG/L	49 UG/L	5 UG/L	26 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/16	10 UG/L	10 UG/L	0.23 MG/L	1378 UG/L	45 UG/L	7 MG/L
87/07/10	10 UG/L	10 UG/L	0.16 MG/L	978 UG/L	45 UG/L	7 MG/L
88/07/05	10 UG/L	10 UG/L	0.18 MG/L	364 UG/L	45 UG/L	8 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/16	143 UG/L	0.5 MG/L	5 UG/L	43 MG/L	20 MG/L	5 UG/L
87/07/10	99 UG/L	0.5 MG/L	5 UG/L	47 MG/L	20 MG/L	7 UG/L
88/07/05	106 UG/L	0.5 MG/L	5 UG/L	54 MG/L	20 MG/L	6 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE ARKANSAS RIVER

AQUIFER-WELL NO.
02-003028

LEGAL DESCRIPTION
NE NE SE 28 16N 17E1M

COUNTY
WAGONER

192

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/03	125	60-100	490 UMHOS/CM	285 MG/L	214 MG/L	7.2 STD UNIT
87/09/01	125	60-100	440 UMHOS/CM	354 MG/L	273 MG/L	6.6 STD UNIT
88/08/02	125	60-100	370 UMHOS/CM	378 MG/L	297 MG/L	6.6 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/03	265.0 MG/L	10 UG/L	580 UG/L	20 UG/L	23 MG/L	10 MG/L
87/09/01	235.0 MG/L	10 UG/L	61 UG/L	5 UG/L	64 MG/L	16 MG/L
88/08/02	236.0 MG/L	10 UG/L	521 UG/L	5 UG/L	69 MG/L	13 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/03	100 UG/L	40 UG/L	0.50 MG/L	100 UG/L	200 UG/L	16 MG/L
87/09/01	10 UG/L	46 UG/L	0.47 MG/L	19 UG/L	45 UG/L	21 MG/L
88/08/02	10 UG/L	47 UG/L	0.47 MG/L	22 UG/L	45 UG/L	22 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/03	20 UG/L	2.0 MG/L	5 UG/L	18 MG/L	20 MG/L	40 UG/L
87/09/01	10 UG/L	10.3 MG/L	5 UG/L	13 MG/L	20 MG/L	5 UG/L
88/08/02	10 UG/L	10.6 MG/L	5 UG/L	17 MG/L	20 MG/L	5 UG/L

ELK CITY SANDSTONE

AQUIFER-WELL NO.
13-001221

LEGAL DESCRIPTION
SE SE NW 05 09N 18WIM

COUNTY
WASHITA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/03	125	60-100	1100 UMHOS/CM	698 MG/L	357 MG/L	7.0 STD UNIT
87/09/01	125	60-100	1000 UMHOS/CM	685 MG/L	419 MG/L	6.7 STD UNIT
88/08/02	125	60-100	800 UMHOS/CM	699 MG/L	399 MG/L	6.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/03	412.0 MG/L	10 UG/L	580 UG/L	20 UG/L	53 MG/L	77 MG/L
87/09/01	409.0 MG/L	10 UG/L	166 UG/L	5 UG/L	107 MG/L	73 MG/L
88/08/02	406.0 MG/L	10 UG/L	165 UG/L	5 UG/L	112 MG/L	71 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/03	100 UG/L	100 UG/L	0.50 MG/L	100 UG/L	200 UG/L	26 MG/L
87/09/01	10 UG/L	10 UG/L	0.39 MG/L	36 UG/L	45 UG/L	28 MG/L
88/08/02	10 UG/L	10 UG/L	0.42 MG/L	10 UG/L	45 UG/L	28 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/03	20 UG/L	10.0 MG/L	6 UG/L	76 MG/L	83 MG/L	40 UG/L
87/09/01	10 UG/L	7.8 MG/L	5 UG/L	85 MG/L	73 MG/L	13 UG/L
88/08/02	10 UG/L	9.3 MG/L	5 UG/L	88 MG/L	65 MG/L	10 UG/L

ELK CITY SANDSTONE

	AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
193	13-001220	NW SW SW 13 10N 19W1M	WASHITA

194

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/09/03	160	58-158	650 UMHOS/CM	358 MG/L	239 MG/L	7.5 STD UNIT
87/09/01	160	58-158	690 UMHOS/CM	441 MG/L	302 MG/L	7.0 STD UNIT
88/08/02	160	58-158	700 UMHOS/CM	582 MG/L	321 MG/L	6.8 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/09/03	303.0 MG/L	10 UG/L	610 UG/L	20 UG/L	24 MG/L	11 MG/L
87/09/01	309.0 MG/L	10 UG/L	501 UG/L	5 UG/L	69 MG/L	32 MG/L
88/08/02	318.0 MG/L	10 UG/L	680 UG/L	5 UG/L	96 MG/L	26 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/09/03	100 UG/L	40 UG/L	0.38 MG/L	100 UG/L	200 UG/L	22 MG/L
87/09/01	10 UG/L	10 UG/L	0.41 MG/L	82 UG/L	45 UG/L	25 MG/L
88/08/02	10 UG/L	10 UG/L	0.45 MG/L	10 UG/L	45 UG/L	31 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/09/03	20 UG/L	4.8 MG/L	5 UG/L	33 MG/L	20 MG/L	180 UG/L
87/09/01	10 UG/L	8.5 MG/L	5 UG/L	41 MG/L	20 MG/L	45 UG/L
88/08/02	10 UG/L	25.2 MG/L	5 UG/L	41 MG/L	23 MG/L	49 UG/L

ELK CITY SANDSTONE

AQUIFER-WELL NO.
13-001219

LEGAL DESCRIPTION
SE SE NW 23 11N 20W1M

COUNTY
WASHITA

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	95	80-95	540 UMHOS/CM	358 MG/L	216 MG/L	7.2 STD UNIT
87/08/25	95	80-95	350 UMHOS/CM	329 MG/L	225 MG/L	7.8 STD UNIT
88/06/16	95	80-95	510 UMHOS/CM	348 MG/L	238 MG/L	7.4 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	216.0 MG/L	10 UG/L	218 UG/L	5 UG/L	71 MG/L	19 MG/L
87/08/25	207.0 MG/L	10 UG/L	210 UG/L	5 UG/L	66 MG/L	17 MG/L
88/06/16	217.0 MG/L	10 UG/L	222 UG/L	5 UG/L	74 MG/L	19 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.49 MG/L	83 UG/L	45 UG/L	13 MG/L
87/08/25	10 UG/L	10 UG/L	0.36 MG/L	52 UG/L	45 UG/L	11 MG/L
88/06/16	10 UG/L	10 UG/L	.42 MG/L	10 UG/L	45 UG/L	13 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	10 UG/L	6.1 MG/L	5 UG/L	27 MG/L	20 MG/L	31 UG/L
87/08/25	10 UG/L	6.1 MG/L	7 UG/L	23 MG/L	40 MG/L	5 UG/L
88/06/16	10 MG/L	6.3 MG/L	15 UG/L	28 MG/L	33 MG/L	5 MG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.	LEGAL DESCRIPTION	COUNTY
04-003000	SE SW SE 13 23N 14WIM	WOODS

196

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	58	43-58	360 UMHOS/CM	299 MG/L	123 MG/L	7.3 STD UNIT
87/08/25	58	43-58	325 UMHOS/CM	289 MG/L	161 MG/L	7.2 STD UNIT
88/06/16	58	43-58	426 UMHOS/CM	308 MG/L	168 MG/L	7.0 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	90.0 MG/L	10 UG/L	129 UG/L	5 UG/L	42 MG/L	13 MG/L
87/08/25	101.0 MG/L	10 UG/L	132 UG/L	5 UG/L	44 MG/L	16 MG/L
88/06/16	116.0 MG/L	10 UG/L	169 UG/L	5 UG/L	50 MG/L	15 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.32 MG/L	114 UG/L	45 UG/L	9 MG/L
87/08/25	10 UG/L	10 UG/L	0.27 MG/L	23 UG/L	45 UG/L	9 MG/L
88/06/16	10 UG/L	10 UG/L	30 MG/L	10 UG/L	45 UG/L	9 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	10 UG/L	12.1 MG/L	5 UG/L	24 MG/L	22 MG/L	5 UG/L
87/08/25	10 UG/L	15.3 MG/L	5 UG/L	23 MG/L	20 MG/L	13 UG/L
88/06/16	10 UG/L	13.4 MG/L	5 UG/L	23 MG/L	39 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003040

LEGAL DESCRIPTION
NW NW NE 06 24N 15WIM

COUNTY
WOODS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/17	70	55-70	650 UMHOS/CM	461 MG/L	266 MG/L	7.5 STD UNIT
87/08/25	70	55-70	590 UMHOS/CM	465 MG/L	296 MG/L	7.9 STD UNIT
88/06/16	70	55-70	693 UMHOS/CM	479 MG/L	297 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/17	205.0 MG/L	10 UG/L	134 UG/L	5 UG/L	88 MG/L	30 MG/L
87/08/25	203.0 MG/L	10 UG/L	127 UG/L	5 UG/L	86 MG/L	40 MG/L
88/06/16	205 MG/L	10 UG/L	137 UG/L	5 UG/L	91 MG/L	40 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/17	10 UG/L	10 UG/L	0.41 MG/L	236 UG/L	45 UG/L	16 MG/L
87/08/25	10 UG/L	34 UG/L	0.31 MG/L	409 UG/L	45 UG/L	16 MG/L
88/06/16	10 UG/L	10 UG/L	.35 MG/L	.74 UG/L	45 UG/L	16 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/17	10 UG/L	12.6 MG/L	5 UG/L	36 MG/L	44 MG/L	58 UG/L
87/08/25	10 UG/L	15.6 MG/L	5 UG/L	35 MG/L	41 MG/L	1847 UG/L
88/06/16	10 UG/L	14.9 MG/L	5 UG/L	41 MG/L	58 MG/L	14 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003041

LEGAL DESCRIPTION
SW SW SE 01 25N 17WIM

COUNTY
WOODS,

198

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/08/25	81	41-76	1075 UMHOS/CM	869 MG/L	529 MG/L	7.6 STD UNIT
88/06/16	81	41-76	1277 UMHOS/CM	972 MG/L	500 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/08/25	262.0 MG/L	14 UG/L	57 UG/L	5 UG/L	148 MG/L	86 MG/L
88/06/16	310 MG/L	10 UG/L	40 UG/L	5 UG/L	147 MG/L	101 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/08/25	18 UG/L	89 UG/L	1.18 MG/L	10640 UG/L	45 UG/L	51 MG/L
88/06/16	10 UG/L	10 UG/L	.94 MG/L	817 UG/L	45 UG/L	49 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/08/25	341 UG/L	6.5 MG/L	5 UG/L	73 MG/L	69 MG/L	1906 UG/L
88/06/16	10 UG/L	5.9 MG/L	7 UG/L	90 MG/L	279 MG/L	610 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE CIMARRON RIVER

AQUIFER-WELL NO.
04-003043

LEGAL DESCRIPTION
NW NW NW 07 26N 13W1M

COUNTY
WOODS

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/09	38	25-35	1400 UMHOS/CM	1119 MG/L	502 MG/L	7.6 STD UNIT
87/08/25	38	25-35	1390 UMHOS/CM	1239 MG/L	827 MG/L	7.8 STD UNIT
88/07/19	38	25-35	1500 UMHOS/CM	1346 MG/L	895 MG/L	7.2 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/09	308.0 MG/L	10 UG/L	20 UG/L	5 UG/L	156 MG/L	29 MG/L
87/08/25	264.0 MG/L	10 UG/L	24 UG/L	5 UG/L	175 MG/L	34 MG/L
88/07/19	218.0 MG/L	13 UG/L	27 UG/L	5 UG/L	199 MG/L	36 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/09	10 UG/L	10 UG/L	0.40 MG/L	148 UG/L	45 UG/L	80 MG/L
87/08/25	10 UG/L	81 UG/L	0.40 MG/L	2757 UG/L	45 UG/L	81 MG/L
88/07/19	10 UG/L	25 UG/L	0.40 MG/L	4082 UG/L	45 UG/L	86 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/09	10 UG/L	16.1 MG/L	5 UG/L	58 MG/L	437 MG/L	560 UG/L
87/08/25	21 UG/L	19.3 MG/L	5 UG/L	51 MG/L	440 MG/L	1430 UG/L
88/07/19	17 UG/L	22.7 MG/L	5 UG/L	61 MG/L	614 MG/L	1303 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE SALT FORK OF THE ARKANSAS RIVER

AQUIFER-WELL NO.

01-003029

LEGAL DESCRIPTION

SE SE SE 29 28N 13WIM

COUNTY

WOODS

200

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/15	64	52-62	800 UMHOS/CM	601 MG/L	408 MG/L	7.6 STD UNIT
87/07/31	64	52-62	325 UMHOS/CM	268 MG/L	186 MG/L	7.3 STD UNIT
88/08/23	64	52-62	325 UMHOS/CM	278 MG/L	193 MG/L	7.3 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/15	214.0 MG/L	10 UG/L	164 UG/L	5 UG/L	119 MG/L	44 MG/L
87/07/31	138.0 MG/L	10 UG/L	212 UG/L	5 UG/L	47 MG/L	10 MG/L
88/08/23	141.0 MG/L	10 UG/L	222 UG/L	5 UG/L	49 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/15	10 UG/L	10 UG/L	0.48 MG/L	95 UG/L	45 UG/L	27 MG/L
87/07/31	10 UG/L	10 UG/L	0.31 MG/L	10 UG/L	45 UG/L	12 MG/L
88/08/23	10 UG/L	10 UG/L	0.33 MG/L	10 UG/L	45 UG/L	13 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/15	47 UG/L	0.9 MG/L	5 UG/L	38 MG/L	184 MG/L	6 UG/L
87/07/31	10 UG/L	6.5 MG/L	5 UG/L	10 MG/L	20 MG/L	12 UG/L
88/08/23	10 UG/L	7.0 MG/L	5 UG/L	13 MG/L	34 MG/L	6 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.
05-000405

LEGAL DESCRIPTION
NW SW SW 30 21N 18WIM

COUNTY
WOODWARD

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
86/07/23	140	120-140	475 UMHOS/CM	385 MG/L	232 MG/L	7.1 STD UNIT
87/07/31	140	120-140	475 UMHOS/CM	407 MG/L	251 MG/L	6.7 STD UNIT
88/07/13	140	120-140	350 UMHOS/CM	399 MG/L	133 MG/L	7.1 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
86/07/23	228.0 MG/L	10 UG/L	483 UG/L	5 UG/L	91 MG/L	10 MG/L
87/07/31	222.0 MG/L	10 UG/L	468 UG/L	5 UG/L	87 MG/L	10 MG/L
88/07/13	266.0 MG/L	10 UG/L	474 UG/L	5 UG/L	86 MG/L	10 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
86/07/23	10 UG/L	10 UG/L	0.46 MG/L	10 UG/L	45 UG/L	5 MG/L
87/07/31	10 UG/L	10 UG/L	0.44 MG/L	10 UG/L	45 UG/L	5 MG/L
88/07/13	10 UG/L	10 UG/L	0.41 MG/L	39 UG/L	45 UG/L	5 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
86/07/23	10 UG/L	10.3 MG/L	5 UG/L	29 MG/L	43 MG/L	5 UG/L
87/07/31	10 UG/L	14.5 MG/L	5 UG/L	29 MG/L	22 MG/L	7 UG/L
88/07/13	10 UG/L	19.3 MG/L	5 UG/L	32 MG/L	20 MG/L	8 UG/L

OGALLALA FORMATION

AQUIFER-WELL NO.
11-003108

LEGAL DESCRIPTION
SE SW SE 14 21N 21WIM

COUNTY
WOODWARD

202

DATE COLLECTED	TOTAL DEPTH(FBLS)	ZONE OF PERF(FBLS)	SPECIFIC CONDUCTANCE	T.D. SOLIDS	HARDNESS	PH
87/07/31	92	77-92	175 UMHOS/CM	219 MG/L	124 MG/L	7.5 STD UNIT
88/07/13	92	77-92	350 UMHOS/CM	240 MG/L	68 MG/L	6.7 STD UNIT

	ALKALINITY, TOTAL	ARSENIC	BARIUM	CADMIUM	CALCIUM	CHLORIDE
87/07/31	88.0 MG/L	10 UG/L	194 UG/L	5 UG/L	36 MG/L	10 MG/L
88/07/13	181.0 MG/L	10 UG/L	238 UG/L	5 UG/L	40 MG/L	12 MG/L

	CHROMIUM	COPPER	FLUORIDE	IRON	LEAD	MAGNESIUM
87/07/31	10 UG/L	10 UG/L	0.35 MG/L	10 UG/L	45 UG/L	5 MG/L
88/07/13	10 UG/L	10 UG/L	0.28 MG/L	39 UG/L	45 UG/L	6 MG/L

	MANGANESE, TOTAL	NITRITE-NITRATE AS N	SELENIUM	SODIUM	SULFATE	ZINC
87/07/31	10 UG/L	7.1 MG/L	5 UG/L	10 MG/L	20 MG/L	5 UG/L
88/07/13	10 UG/L	11.1 MG/L	5 UG/L	14 MG/L	20 MG/L	5 UG/L

ALLUVIUM AND TERRACE DEPOSITS OF THE BEAVER-NORTH CANADIAN RIVER

AQUIFER-WELL NO.
05-004004

LEGAL DESCRIPTION
SW SE SE 24 24N 21WIM

COUNTY
WOODWARD