

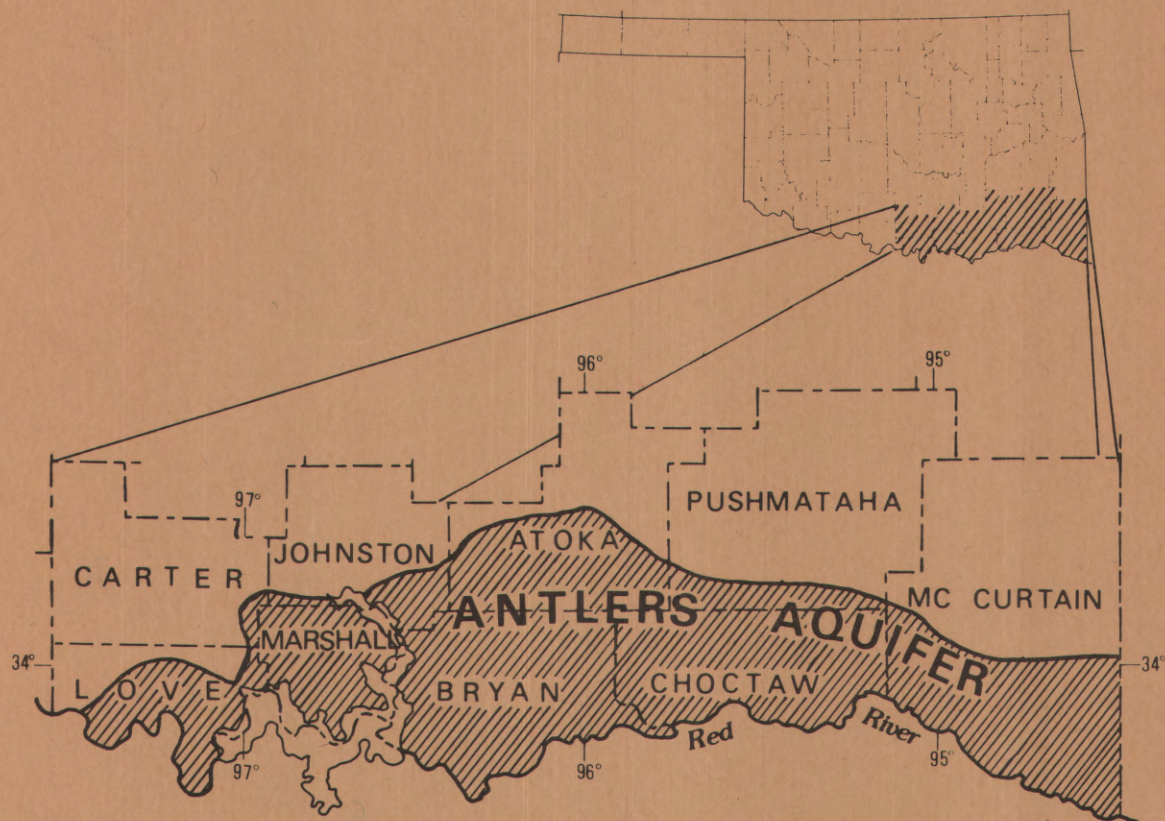
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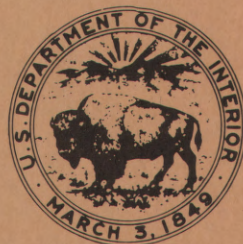
HYDROLOGIC DATA FOR THE ANTLERS AQUIFER, SOUTHEASTERN OKLAHOMA

U.S. GEOLOGICAL SURVEY

Open-File Report 78-1038



Prepared in cooperation with the
OKLAHOMA GEOLOGICAL SURVEY



UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

HYDROLOGIC DATA FOR THE ANTLERS
AQUIFER, SOUTHEASTERN OKLAHOMA

By Robert E. Davis and Donald L. Hart, Jr.

Open-File Report 78-1038

Prepared in cooperation with the
OKLAHOMA GEOLOGICAL SURVEY

Oklahoma City, Oklahoma
November, 1978

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SOUTHEASTERN OKLAHOMA

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Robert E. Davis and Donald L. Hart, Jr.

Introduction

The U.S. Geological Survey has collected data on Oklahoma's ground-water resources since 1934. Most of these data were collected as part of specific ground-water studies conducted in cooperation with various Federal, State, and local agencies.

The information in this report was obtained in the field, from published reports (Davis, 1960, Hart, 1974, Havens and Bergman, 1976), and from unpublished files of the U.S. Geological Survey.

The stratigraphic nomenclature is that of the Oklahoma Geological Survey and does not necessarily agree with that of the U.S. Geological Survey.

Acknowledgement is extended to the many individuals who have provided the data included in this report.

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McCurtain County, Oklahoma: Oklahoma Geol. Survey Bull. 86, 108 p.
- Hart, D. L. Jr., 1974, Reconnaissance of the water resources of the
Ardmore and Sherman quadrangles, southern Oklahoma: Oklahoma
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- Havens, J. S., and Bergman, D. L., 1976, Ground-water records for south-
eastern Oklahoma, Part 1 - Records of wells, test-holes, and springs:
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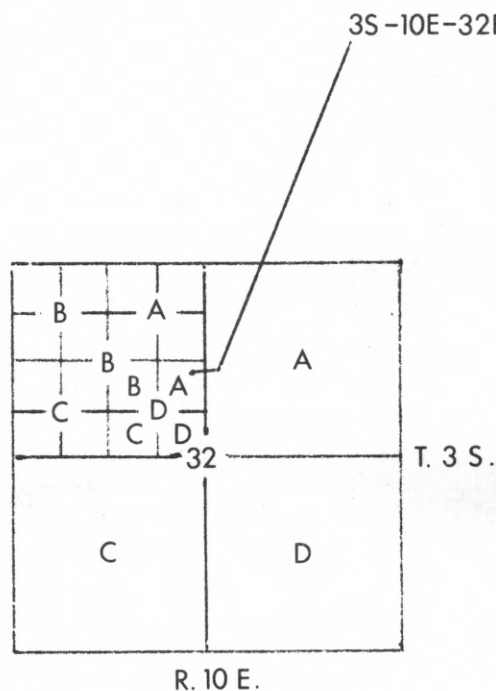
Conversion factors

Inch-Pound units used in this report may be converted to metric units by the following conversion factors:

<u>Inch-Pound units</u>	<u>Multiply by</u>	<u>Metric units</u>
in (inch)	25.4	mm (millimeter)
ft (foot)	0.3048	m (meter)
ft ³ /s (cubic foot per second)	28.32	L/s (liter per second)
gal/min (gallon per minute)	0.06309	L/s (liter per second)
mi ² (square mile)	2.590	km ² (square kilometer)

EXPLANATION OF WELL-NUMBERING SYSTEM

THE STANDARD METHOD OF GIVING LOCATION BY FRACTIONAL SECTION, SECTION, TOWNSHIP, AND RANGE IS REPLACED IN THIS REPORT BY THE METHOD ILLUSTRATED IN THE DIAGRAM BELOW. THE LOCATION OF THE WELL INDICATED BY THE DOT NORMALLY WOULD BE DESCRIBED AS NE 1/4 SE 1/4 NW 1/4 SEC. 32, T. 03 S., R. 10 E. THE METHOD USED IN THIS REPORT REVERSES THE ORDER AND INDICATES QUARTER SUBDIVISIONS OF THE SECTION BY LETTERS. BY THIS METHOD THE LOCATION OF THE WELL IS GIVEN AS 03S-10E-32BDA 1. THE FINAL DIGIT (1) IS THE SEQUENTIAL NUMBER OF A WELL WITHIN THE SMALLEST FRACTIONAL SUBDIVISION.



EXPLANATION OF INFORMATION IN TABLE 1

COLUMN 2 (OWNER OR USER) OWNER OR USER WHEN THE WELL WAS INVENTORIED. IF A SPRING, THE NAME OF THE SPRING IS GIVEN HERE.

COLUMN 3 (YEAR DRILLED) MAY BE ESTIMATED OR REPORTED.

COLUMN 4 (WELL DEPTH) DEPTH OF THE WELL BELOW LAND SURFACE TO THE NEAREST FOOT. NUMBERS FOLLOWING THE DEPTH OF THE WELL ARE ACCURACY CODES AS FOLLOWS:

- 0. ACCURATE WITHIN 1 FT
- 1. LESS THAN 1 FT
- 3. FROM DRILLER'S LOG
- 6. REPORTED

COLUMN 5 (WATER USE) WATER USE IS CODED AS FOLLOWS:

- C. COMMERCIAL
- H. DOMESTIC
- I. IRRIGATION
- M. MEDICAL
- N. INDUSTRIAL
- P. PUBLIC SUPPLY
- S. STOCK SUPPLY
- T. INSTITUTIONAL
- U. UNUSED

COLUMN 6 (WELL DIAMETER) DIAMETER OF THE WELL TO THE NEAREST INCH.

COLUMN 7 (DEPTH TO WATER) DEPTH TO THE WATER LEVEL BELOW LAND SURFACE TO THE NEAREST FOOT. "F" INDICATES FLOWING WELL. LETTERS FOLLOWING THE WATER LEVEL ARE ACCURACY CODES AS FOLLOWS:

- A. TAPE - BETTER THAN 1 FT
- D. DRILLER'S LOG
- G. REPORTED

COLUMN 8 (DATE MEASURED) DATE OF WATER-LEVEL MEASUREMENT

COLUMN 9 (WELL YIELD) DISCHARGE OF THE WELL IN GALLONS PER MINUTE. THE NUMBERS FOLLOWING THE WELL YIELD ARE ACCURACY CODES AS FOLLOWS:

1. BUCKET (OR BARREL) AND STOPWATCH
3. BAILER
5. WEIR OR FLUME
6. PITOT TUBE
0. ESTIMATED - BLANK IF REPORTED

COLUMN 10 (AQUIFERS) THE AQUIFER CODES ARE:

CODE		AQUIFER OR FORMATION
<hr/>		
INFORMAL	QA	ALLUVIUM
	QT	TERRACE DEPOSITS
CRETACEOUS	BK	ANTLERS SANDSTONE

COLUMN 11 (ALTITUDE OF LAND SURFACE) NUMBERS ARE IN FEET ABOVE SEA LEVEL.

Table 1.--Records of wells, test-holes, and springs.

ATOKA COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
02S-10E-34AAA 1	WEBSTER, R		20 0	H	42	16 A	8-68		BK	610
02S-11E-26DDD 1	DELAY, C.	1963	101 0	H	6	10 A	8-68	2 0	BK	600
02S-11E-32BAA 1	MCINICH, J.L.	1955	48 0	H		29 A	8-68	1 0	BK	610
02S-12E-30CCB 1	SMITH, EARL	1971	60 3	H		5 D		6	BK	560
03S-09E-35AAD 1	KING, E		32 0	U	42	5 A	8-68		BK	650
03S-10E-02DDD 1	DETWILER, E.G.	1966	75 6	H	6	32 A	8-68	2 0	BK	605
03S-10E-25BAB 1	MCCUSTER, C.		105 0	H		61 A	8-68	1 0	BK	530
03S-10E-32BDA 1	HOWARD, P.D.	1963	44 0	H	42	39 A	8-68	1 0	BK	642
03S-11E-01DDD 1	HOPPS, C.		92 0	H	6	83 A	3-50		BK	610
03S-11E-1188B 1			90 1	S		43 A	10-77		BK	
03S-11E-11DC 1	LEWIS, SINA		180 3	H	5	40 D		22	BK	640
03S-11E-23ABB 1	JACOBS, DANIEL	1972	70 3	H		20 D		5	BK	620
03S-11E-29BCC 1	CROSBY, W.C.	1968	90 0	H	6	60 A	8-68		BK	520
03S-12E-03ADD 1	WILLIAM, C.		15 0	H	72	10 A	3-50		BK	610
03S-12E-038BB 1	DANDRIDGE, J.D.		115 3	H	5	21 D		5	BK	575
03S-12E-04ABB 1	JONES, W.		46 0	H	6	22 A	3-50		BK	605
03S-12E-08AAA 1	WOODS		50 6	H		7 G			BK	582
03S-12E-09ADC 1	UPDEGRAFF, H.		87 6		10	10 G	3-49		BK	630
03S-12E-10CBB 1	MCCONNELL, B.		64 0	S	6	44 A	3-50		BK	630
03S-12E-138BB 1	KEENON, W.	1943	110 6	H	8	95 G	3-50		BK	610
03S-12E-13DDA 1	SHEFFIELD, RAY		35 0	H	36	28 A	5-70	8	BK	565
03S-12E-20CAB 1	BESSENT, E.		18 0	H	20	12 G	3-50		BK	600
03S-12E-25DDD 1			63 0	T	5	6 A	5-70		BK	580
03S-13E-18ACC 1			74 0	U	6	11 A	5-70		BK	570
03S-13E-22DC 1	BREWER, WINNIE		85 3	H	5	26 D		8	BK	550
03S-13E-22DD 1	NICHOLAS, RAYSON	1971	60 3	H		23 D		5	BK	540
03S-13E-28AAB 1	BUTLER SCHOOL		20 0	U	8	13 A	5-70		BK	564
03S-13E-36CCC 1			34 0	U	36	25 A	5-70		BK	505
03S-14E-26BBB 1		1970	66 0	H	6	15 A	5-70		BK	575
03S-14E-26BCC 1	SMITH, GRAYLAR	1974	162 3	H	5	20 D		8	BK	540
03S-14E-29CBC 1	STRICKLAND, O.	1938	40 0	H	72	39 A	3-48		BK	542
03S-14E-35BBB 1			38 0	H	6	13 A	4-70		BK	600
03S-14E-35CCC 1			40 0	U	6	24 A	5-70		BK	595
04S-09E-08ACA 1	GOLDEN, GRADY	1971	75 3	H		8 D			BK	760
04S-09E-138BA 1	BAUGHMAN, H	1965	186 6	H	5	56 A	8-68	1 0	BK	655
04S-09E-14DDA 1	HUGHES, H.	1972	80 3	H	5	28 D		20	BK	635
04S-09E-17BAA 1	SMITH, M.C.		19 0	H	42	14 A	8-68		BK	730
04S-09E-25DCC 1	JENKINS, D.		125 0	H	4	97 A	8-68	5 0	BK	655
04S-09E-29DDC 1	INGELLS, B.		160 0	H		77 A	8-68	2 0	BK	728
04S-10E-01CCD 1	BREWSTER		24 1	S		20 A			BK	
04S-10E-01DCC 1	EMERT		20	H	24	16	3-48	<1	BK	

Table 1.--Records of wells, test-holes, and springs.--Continued

ATOKA COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
04S-10E-09BAA 1	HARBICK, R.L.	1968	62 0	H	6	36 A	8-68		BK	605
04S-10E-20DDD 1	FAUDREE, R.	1931	92 0	H	6	38 A	8-68	5 0	BK	612
04S-10E-25DAA 1	REEVES, C.G.	1956	190 3	H	6	127 A	8-68	40 0	BK	605
04S-11E-03DAD 1			42 0	H	6	22 A	8-68		BK	555
04S-11E-07DAA 1	WHISMAN, C.R.		54 0	H	6	45 A	8-68		BK	595
04S-11E-2288 1	UNKNOWN	1971	60 3	H		19 D		5	BK	560
04S-11E-25AAA 1	BAGBY, R.R.	1967	70 0	H	6	33 A	8-68		BK	
04S-11E-2788 1	KEEL, MARLENE	1971	80 3	H	5	18 D		5	BK	590
04S-11E-29BAA 1		1968	85 0	H		33 A	8-68	2 0	BK	580
04S-12E-02CDD 1	MAYO, H.L.	1968	100 0	H	6	21 A	8-68		BK	620
04S-12E-08CC 1	FARMER, TROY	1971	180 3	H				5	BK	550
04S-12E-188 1			60			48		<1	BK	
04S-12E-18DAD 1	SNELL, DOYLE	1971	62 3	H		18 D		14	BK	560
04S-12E-19DAA 1	BLAYLOCK, W.H.	1967	120 6	H		53 A	8-68	2 0	BK	540
04S-12E-21DCC 1	RAINS, IRMA	1972	160 3	H	5	53 D		8	BK	715
04S-12E-26888 1			90 0	H		41 A	8-68		BK	528
04S-13E-03CCD 1		1968	60 0	H	6	15 A		5	BK	550
04S-13E-0788C 1			18	U	24	11 A	5-70		BK	570
04S-13E-10888 1	PRATER, HOLLIE	1971	140 3	H	5	106 D		12	BK	540
04S-13E-19CCC 1	PAGE, M.	1966	60 0	H	6	25 A	5-70	5	BK	550
04S-13E-23CBC 1	BECKETT, J		44 0	H	8	15 A	5-70		BK	610
04S-13E-30CCC 1			52 0	U	6	37 A	5-70		BK	485
04S-13E-32DAB 1		1936	58 0	H	6	17 A	5-70	5	BK	530
04S-14E-08888 1		1966	63 0	H	6	14 A	5-70	7	BK	520
04S-14E-12AAD 1			30 0	H	8	22 A	5-70		BK	610
04S-14E-15ABA 1			59 0	H	6	15 A	5-70	7	BK	575
04S-14E-22DAD 1			50 0	U	6	41 A	5-70		BK	495
04S-14E-31AAD 1			54 0	H	6	12 A	5-70		BK	500

Table 1.--Records of wells, test-holes, and springs.--Continued

BRYAN COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
05S-07E-23CC	1 COLBERT, DOUGLAS	1972	345 3	H	5	125 D		15	BK	710
05S-07E-36AA	1 ABBOTT, W.	1947	480 6	H	5	110 D	9-47		BK	684
05S-08E-12BCC	1 NORMAN JR., J.E.	1952	230 6	H	6	90 A	8-68	10	BK	682
05S-08E-23AB	1 ALLEN, DOYLE	1972	225 3	H	5	90 D		25	BK	740
05S-08E-32HDD	1 HICKS, A.		608 6	S					BK	755
05S-09E-04DRC	1 KENEFIC, OK	1915	170 6	P	5	60 G		6	BK	660
05S-09E-04DRC	1 KENEFIC, OK	1947	305 3	P	6	112 G	9-47	10	BK	660
05S-09E-11CDC	1		300 0	H	6	142 A	8-68	1	BK	708
05S-09E-32BBB	1 SIMS, J.H.		375 0	H	6	67 A	8-60	1	BK	638
05S-09E-36AAA	1 HARDING, C.B.	1948	342 6	H	4	132 G	3-48		BK	645
05S-10E-01CAA	1 MUGLER, PETE	1952	300	U	4	87 A	8-68		BK	
05S-10E-168BA	1 CADDU, OK		406 6	P	8			40	BK	
05S-10E-168DB	1 CADDU, OK	1941	404 6	P	8			55	BK	725
05S-10E-168D	2 CADDU, OK	1941	428	P	6			45	BK	725
05S-10E-26ACC	1 BAXTER, FLOSSIE		280 0	H	6	87 A	8-68	5	BK	650
05S-10E-328BA	1 THORNTON, W.L.	1936	252 0	H	4	110 A	8-68	10	BK	645
05S-11E-05CCC	1 AMMONS, HAZEL	1941	260 0	H		94 A	9-68	2	BK	622
05S-11E-14ABA	1	1957	280 0	H	5	84 A	8-68	5	BK	610
05S-11E-32BAB	1 WELLS, J.R.	1960	300 0	H	5	79 A	9-68	2	BK	662
05S-11E-35BAB	1 HALL, ALICE M.	1943	300 0	H	3	27 A	9-68		BK	652
05S-12E-08CAA	1 HOLLIDAY, JIM	1938	75 0	H		32 A	9-68	5	BK	
05S-12E-13CCC	1		84 0	H	5	65 A	4-70		BK	550
05S-12E-17DD	1 LEFLORE, THOMAS	1973	225 3	H	5	40 D		25	BK	565
05S-12E-35AA	1 DUNEGAN, DONALD		446 3	H	5	165 D			BK	620
05S-12E-36DC	1 FLEMING, WALLACE	1969	378 3	H	5	100 D		15	BK	700
05S-13E-20DC	1 JACKSON, LEONARD	1973	205 3	H	5	100 D		15	BK	550
06S-07E-27D	1 MOORE, P.L.	1947	507		4	152			BK	650
06S-09E-05BAA	1 LYDAY, E.M. JR.	1972	360 3	H	5	60 D		20	BK	635
06S-09E-14CCD	1 PATE, VICTOR	1973	555 3	H	5	150 D		35	BK	660
06S-09E-19DCB	1 DURANT, OK		692 6	P	10	89 G		190	BK	
06S-09E-19DCB	2 DURANT, OK		654 6	P	10	86 G	1-47	300	BK	650
06S-09E-20BBB	1 DURANT, OK	1947	663 3	U	8	73 A	12-53	375	BK	680
06S-09E-20CBA	1 DURANT, OK	1945	646 6	P					BK	645
06S-09E-20CBC	1 DURANT, OK	1946	886 6	P	10	65 G	11-46	300	BK	639
06S-11E-14CDC	1 KNIGHT, COY	1972	410 3	H	5	70 D		10	BK	545
06S-11E-23BA	1 JEFFREYS, JUDGE	1972	415 3	H	5	70 D		20	BK	550
06S-11E-23CDC	1 BABB, ANDREW	1968	460 0	H	5	72 A	9-68	60	BK	568
06S-12E-23AAB	1 DEWITT, F.T.	1972	480 3	H	5	105 D		15	BK	650
06S-12E-27	2 BENNINGTON, OK		700	P				20	BK	
06S-12E-27BCA	1 BENNINGTON, OK	1953	700 0	P	10	40		80	BK	625
06S-12E-27CBA	1 BENNINGTON, OK		750	P	8	75 G		26	BK	625

Table 1.--Records of wells, test-holes, and springs.--Continued

BRYAN COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
06S-12E-27CBA 2	BENNINGTON,OK	1975	707 6	U	8	27 A	4-75		BK	
06S-12E-27CBA 3	BENNINGTON,OK	1946	488	P	9				BK	623
06S-13E-31CC 1	HAMBY,JOE	1973	596 3	H		150 D		20	BK	595
07S-08E-24BCC 1	CALERA,OK		980 6	P		100 G		45	BK	720
07S-12E-28CCC 1	CALHOUN,DAWSON	1962	1400 6	H		F A	9-68	50	BK	

Table 1.--Records of wells, test-holes, and springs.--Continued

CARTER COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
059-01W-34DDA 1	RICHARDSON R.		53 0	H	6	38	4-48		BK	803
059-02W-21BCC 1	BLACK JACK SCH		39	M	24	24	4-48		BK	970
059-02W-32AAA 1			125 0	H	6	37 A	2-69		BK	910
059-03W-10DDD 1	KEATH FLOYD		75 0	H		45 A	12-68		BK	905
049-02E-35BDA 1	NOBLE FOUNDATION		281	T		37		40	BK	875
049-03E-27CCC 1			160 0	H	6	23 A	12-68		BK	805
059-02E-12B8B 1			35 0	H	6	17 A	12-68		BK	815
059-03E-07DDD 1			70 0	H	6	44			BK	840
059-03E-29AAA 1			126 3	H	6	29 A	12-60		BK	748

Table 1.--Records of wells, test-holes, and springs.--Continued

CHOCTAW COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
05S-13E-27BBB 1			196 0	P		74 A	4-70	3	BK	525
05S-14E-06BCB 1	BAKER, T.M.	1930	40 0	H	6	22 A	4-70		BK	550
05S-14E-13BBB 1	BUCKHORN SCHOOL		58 0	T	6	36 A	3-70	8	BK	555
05S-14E-14AA 1	MCKEE, BURL	1972	160 3	H	5			30	BK	530
05S-14E-21BAC 1	MULBERRY SPRING			U		F		<1	BK	490
05S-14E-28DAD 1	TYSON	1952	113 0	U	6	71 A	4-70	5	BK	510
05S-15E-08DAD 1	HERMAN, FLOYD		200 3	H				30	BK	590
05S-15E-13ABB 1	NELSON CENTER		65 0	P	6	48 A	3-70		BK	620
05S-15E-16ABA 1			36 0	U	6	28 A	3-70		BK	570
05S-15E-26CBB 1	SUGAR CREEK SCH		85 0	T	6	38 A	4-70	5	BK	530
05S-15E-33DCC 1				S		A	4-70	20	BK	480
05S-16E-12BAA 1			26 0	S	40	12 A	3-70		BK	545
05S-16E-13CD 1	DUNLAP, JAMES	1972	200 3	H	5				BK	580
05S-16E-15CCB 1	STATE SCHOOL		76 0	T	6	46 A	3-70		BK	620
05S-16E-24ABB 1			24 0	U	40	11 A	4-70		BK	560
05S-16E-34DAA 1	BARNES, L.L.		150 0	H	6	67 A	4-70	4	BK	570
05S-17E-12AAA 1			15 0	U	36	5 A	4-70		QT	430
05S-17E-21D 1	WILLIAMS, REPHY	1974	200 3	H		10 D		10	BK	480
05S-17E-34CBC 1	BROCK	1946	23 0	U	36	10 A	4-70		BK	450
05S-18E-04DAA 1			25 0	H	36	14 A	4-70		BK	455
05S-18E-09DDD 1	APPLE SCHOOL		52 0	U	6	17 A	4-70		QT	450
05S-19E-03DDA 1			57	H		16	3-70		BK	
05S-19E-07BAB 1			44 0	U	6	13 A	4-70		BK	515
05S-19E-10BBB 1	HERTZ, TED	1974	110 6	H		25 G	8-74	30	BK	590
05S-19E-30CBB 1		1964	100 0	H	6	76 A	4-70		BK	540
05S-19E-35DDA 1		1970	57 0	H	6	16 A	4-70		BK	480
05S-20E-03CCC 1			47 0	U	30	45 A	3-70		BK	620
05S-20E-11BCC 1	HALL, R.C.	1962	70 0	H	5	35 A	3-70	10 3	BK	640
05S-20E-31DAC 1			158 0	S	10	F A	3-70	15	BK	440
06S-14E-06HAB 1			240 0	U	6	94 A	4-70		BK	480
06S-15E-04CCC 1			51 0	U	5	19 A	4-70		BK	
06S-15E-16CCD 1	EDGE, HENRY	1930	150	H	10	F	4-70		BK	460
06S-15E-16DBC 1	HODGEN, BILLY	1970	180 0	H	8	F A	4-70	20 1	BK	445
06S-15E-21CAB 1	CLARK, W.B.	1930	200 0	H	6	F A	4-70	1 0	BK	455
06S-16E-36CBB 1	ELLIOT, DICK	1963	404 0	H	5	34 A	5-70	5 0	BK	500
06S-17E-17BRC 1			103 0	H	5	10 A	5-70		BK	565
06S-17E-20DCA 1	HUGO, OK WELL 6	1947	398 3	P	8	105 D	7-47		BK	530
06S-17E-21CBC 1	HUGO OK WELL 5	1947	328 3	P	8	94 D	6-47	50 0	BK	530
06S-17E-21CCA 1	HUGO OK WELL 4		326 3	P	8	88 D		190	BK	550
06S-17E-21DAC 1	HUGO, OK WELL 8		429 6	P					BK	
06S-17E-21DBC 1	HUGO OK WELL 3		335 3	P	8	92 D		235	BK	550

Table 1.--Records of wells, test-holes, and springs.--Continued

CHOCTAW COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
06S-17E-21DBD 1	HUGO,OK WELL 2	1947	355 3	P	8	113 D	6-47	228	BK	560
06S-17E-21DDD 1	HUGO,OK WELL 1	1946	553 3	P	10	137 D	4-46	225	BK	570
06S-17E-22CCA 1	HUGO,OK WELL 7	1953	392 3		8	100 D	10-53	450	BK	530
06S-17E-22DC 1	WORTHAMIS BKRY.		282 0	U	8	111 A	12-44		BK	540
06S-17E-29BCC 1	GRANT,OK RWD 1	1967	455 3	P	8	165 D	12-67	65	BK	600
06S-18E-12A88 1			45 3	U	6	36 A	4-70		BK	430
06S-18E-1888B 1			60 0	U	6	20 A	4-70		BK	465
06S-19E-02CCD 1	WEYERHAEUSER CO	1975	376 0	I	16	69 A	4-75	1700	BK	560
06S-19E-02CDD 1	WEYERHAEUSER CO	1977	340 0	I	16	82	1-77	1500	BK	
06S-19E-03DDD 1	WEYERHAEUSER CO	1974	315 0	I	10	50 A	7-74	650 5	BK	545
06S-19E-04DDC 1	ATKINS		43 0	H	6	23 A	4-70		BK	520
06S-19E-08UC 1	DAVID,WYNDLE	1972	115 3	H	5			15	BK	510
06S-19E-14CCC 1			28 0	U	5	0 A	3-70		BK	495
06S-19E-24ABD 1	FT TOWSON,OK		35	P		F	5-75	10	BK	
06S-19E-24ABD 2	FT TOWSON,OK		188	P		F	5-75	10 0	BK	
06S-19E-24ABD 3	FT TOWSON,OK			P					BK	
06S-19E-30BCB 1	MOORE,DR.J.D.		280 0	H	4	F		5 0	BK	390
06S-20E-10DAA 1			14 0	U	36	11 A	3-70		QT	500
06S-20E-14DAA 1			28 0	H	40	25 A	3-70		BK	495
06S-20E-20DAA 1		1970	100 0	S	5	65 A	3-70		BK	490
06S-20E-27BAB 1			107 0	U	6	42 A	3-70		BK	485
06S-20E-30AAA 1		1930	130 0	U	5	43 A	3-70		BK	455
06S-20E-31AAA 1	STATE PARK	1967	350	P	6	62 A	4-70	20	BK	510
07S-17E-11BB 1	BELL,DAVIS	1972	326 3	H	5			20	BK	500
07S-17E-15AAB 1	GRANT,OK RWD	1968	530 0	P	8	F D		5 3	BK	480
07S-18E-09ABA 1	BROCK,EDGAR	1969	404 0	H	6	F A	3-70	<1	BK	485
07S-18E-19DBD 1	WYCHE,DR.J.C.		1023	C		F		50 0	BK	
07S-18E-19DCB 2	WYCHE,DR.J.C.	1954	1000 0	H		F		5	BK	430
07S-18E-31HBA 1	GRANT,OK RWD 1	1968	505 0	P	8	F D	7-68	60 0	BK	410
07S-19E-07ACC 1	DOUGHTY,LOYD W	1970	275 0	H	6	F A	4-70		BK	415

Table 1.--Records of wells, test-holes, and springs.--Continued

JOHNSTON COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
03S-06E-25CBC 1	HENSON, L.H.		27 0	H	42	12 A	10-68	10	BK	738
03S-07E-24AAD 1	CONVERSE, B.B.	1966	85 0	H	6	35 A	10-68		BK	774
03S-07E-32BBB 1	HENDERSON, I.	1968	85 0	H	6	46 A	10-68		BK	742
03S-07E-35CCC 1		1966	80 6	H	6	17 A	12-68		BK	
03S-08E-05DDD 1			26 0	H	42	18 A	10-68	5	BK	794
03S-08E-15AAA 1		1967	59 0	H	6	19 A	10-68		BK	735
03S-08E-20CDC 1	GREENE, H.V.		40			25 G	6-68	2	BK	740
03S-08E-25BBB 1	JACKSON, W.T.		25 6	H		20 G			BK	
03S-08E-34AAA 1	BENGER, FRED, L.	1963	103 0	H	6	36 A	10-68		BK	709
04S-04E-16CCC 1	JAMES, TED	1961	47 0	H	4	23 A	10-68	20	QA	
04S-04E-16DBB 1	MANNSVILLE, OK		45 6	P	8	15 G			BK	
04S-04E-22CAD 1	MANNSVILLE SCH.		65			50 G	6-68	3	BK	745
04S-05E-02BBB 1	ARMSTRONG, M.M.		65			28 G	6-68		BK	755
04S-05E-11DAA 1	CANADA, H.	1965	46 0	H	5	25 A	10-68	10	QT	
04S-05E-17CCD 1	FORGUSON, C.B.	1953	16 0	H	36	11 A	10-68	10	BK	
04S-05E-19DDD 1	CHAPMAN, F.		32			28		2	BK	711
04S-06E-15BBB 1	BAKER, R.G.	1952	28		2	8 G		70	BK	648
04S-06E-19BAD 1	AYERS, R.		30			25 G		2	BK	673
04S-07E-02BBB 1	CREECY, U.		155 6			50 G		5	BK	
04S-07E-03AC 1	BROWNLEE, EARL		32 6	H	06	16 G			BK	
04S-07E-14DCA 1			115			90			BK	814
04S-07E-26ABB 1	KROPP, C.L.	1962	307 0	H	7	132 A	10-68	10	BK	750
04S-08E-03ADD 1	WEEDHAM, H.		65 0	H	5	41 A	10-68		BK	730
04S-08E-06DDD 1		1967	115 0		5	47 A	10-68	50	BK	712
04S-08E-25BCC 1		1938	90 0	H	6	30 A	10-68	5	BK	660
04S-08E-29DDA 1		1942	300 0	H	6	122	10-68	20	BK	740

Table 1.--Records of wells, test-holes, and springs.--Continued

LOVE COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
06S-01W-13CCC	1 MCGUMERY M	1964	100 0	H	6	30 A	1-68	10	BK	767
06S-01W-17CCC	1 HEMBREE O		135 3	H	5	40 A	1-69	8	BK	875
06S-01W-34CBC	1		109 0	H	4	9 A	1-69		BK	715
06S-02W-17DDC	1 NEWELL, WAYMOND	1965	78 6	H	6	43 A	1-69	2	BK	915
06S-02W-35AAA	1 MORTON L.F.	1951	37 0	H	5	28	1-69	5	BK	795
06S-03W-02DDD	1		170 0	H	6	72	1-68		BK	965
07S-01W-21CA	1 TURNER, W.	1955	401 6	P	10	76	9-55	240	BK	755
07S-01W-21CD	1 TURNER, W.		401 6	P		60 A	9-55	112	BK	750
07S-02W-17DDD	1		69 3	H	5	60 A	4-48		BK	905
07S-02W-23ABA	1 BARRICK J.R.	1957	82 3	H		42 A	1-68	8	QT	955
08S-01W-02ABB	1 BROWN	1964	102 0	H	6	27 A	1-69	10	BK	738
08S-02W-20AAA	1		140 0	H	6	60	1-69		BK	792
06S-01E-05CCB	1		82 3	H	5	1	1-69		BK	860
06S-01E-13BBB	1 COLESON J.B.		100 6	H	05	60 A	1-69	10	BK	792
06S-03E-08AAD	1		56 0	H	42	48 A	1-69		BK	768
06S-03E-34D	1 HARRIS A.F.	1964	20 0	H		10 A	8-64	7 1	BK	678
06S-03E-36	1 COPELAND R.		340 0	H	6	120	4-68	10	BK	720
07S-01E-09DCC	1		92 3	H	6	36 A	1-69		BH	886
07S-01E-11AAD	1		112 0	U		73 A	1-69		BK	930
07S-02E-02BCC	1		104 0	H	8	81 A	1-69	5	BK	772
07S-02E-13DCD	1 GREEN L.M.		206	S	8	34 A	4-48		BK	820
07S-02E-20ADD	1 MARIETTA OK		805 6	P					BK	
07S-02E-20BDD	1 MARIETTA OK	1944	799 0	M	10	165 A	4-48	140	BK	845
07S-02E-36	1 COPELAND, COY	1964	355		6	120	8-64	10	BK	
07S-03E-07ACB	1 TEXACO		267 6	N		188 G		50	BK	797
07S-03E-09	1 JOHNSON		70 6						BK	
08S-02E-07DCD	1 WISEMAN, R.	1926	325 6	H	5				BK	835
08S-03E-06DDA	1 PARKER, KENNITH		32 0	H	6	6 A	1-69	7	QT	653
09S-01E-01DDD	1 THACKERVILLE, OK	1947	375 6	P	8	235 G	4-48	16	BK	866

Table 1.--Records of wells, test-holes, and springs.--Continued

MARSHALL COUNTY

WELL LOCATION		OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
058-03E-02	1	JOHNSON, SWINEY		235 3	H		80 D		10	BK	800
058-03E-35AAB	1	MARRIS, SALLIE	1953	127 0		5	84 A	10-68		BK	820
058-04E-04B	1	COLBERT, R.J.		32 0	H	5	28 A	3-48		BK	800
058-04E-28DCB	1	GOODWIN, R.	1965	135 0	H	5	65 A	10-68	3	BK	850
058-05E-16AB	1	SINCLAIR OIL CO		453		9			30	BK	863
058-05E-16AD	1	MADILL, OK	1956	430 6	P	14	200 G		135	BK	790
058-05E-25CD	1	NEFF, M.A.	1947	448 6		4	200 G	3-48		BK	712
058-05E-34	1			470 6						BK	
058-06E-07DCC	1			225 0	H		176	10-68		BK	804
058-06E-11ADD	1			375 0	H	8	90	10-68		BK	707
058-06E-19CDD	1		1947	228 6	H	4	140 G	3-48		BK	750
058-06E-28AAB	1	BENTON, J.E.	1940	300 0	H	5	78 A	10-68	10	BK	
058-06E-31DB	1	WHITE, L.	1947	167 6	H	4	90			BK	723
068-03E-13BDA	1		1964	175 0	H	5	124 A	10-67	100	BK	720
068-04E-08DDD	1			48 0	H	5	36 A	10-68	1	BK	820
068-04E-11AAD	1	JONES, W.E.		250 6	H		108 A	10-68	30	BK	832
068-04E-26DDD	1	RUSHING, D.		360 0	H	5	103 A	10-68	5	BK	805
068-04E-29AAA	1	COX, C.H.	1950	95 0	H	5	37 A	10-68		BK	700
068-05E-07AAD	1	KAUFMAN, E.G.	1920	340 6	I		40 A	12-52	35	BK	880
068-05E-20DDD	1		1947	212 6	H	6	120 G	3-48		BK	830
068-05E-22DAD	1			400 0	H	5	129 A	10-68		BK	855
068-06E-30BDC	2	KINGSTON, OK	1955	500 6	C	10	200 G	10-68	400	BK	820
068-06E-30CAA	1	KINGSTON, OK	1955	500 6	C	10			400	BK	
068-06E-30CAA	2	KINGSTON, OK	1962	510 6	C	7			90	BK	810
068-06E-31HBB	1	KINGSTON, OK		505 6	U					BK	
068-06E-31BDB	1	EVANS, W.B.		501 6	P	6	416 G	3-48	20 6	BK	
068-06E-36DA	1	DURANT BOAT CL.		300 6	P	4	50 G		5	BK	655
078-04E-03BBB	1	PAGE, C.J.	1946	36 0	H	6	32 A	4-48		BK	710
078-04E-13B	1	JEFFREY, A.A.	1948	175 6	H	8	55 G	1-64		BK	685
078-04E-22AAA	1	MAGAHE, BOB		68 0	H		38 A	10-68	3	QT	635
078-04E-36BBB	1	CRYER, HOMER		38 0	H	48	25 A	10-68		QT	770
078-05E-048CC	1			180 6	H		119 A	10-68	40	BK	890
078-05E-25CA	1	NEUSTADT		114 0			101			BK	655
078-05E-32ACC	1	TEXOMA CHR. CAMP	1943	180 0	H	6	91 A	10-68	30	BK	710
078-06E-24BBA	1	MCBRIDE, C.	1948	503 6	U	6	150 A	3-48		BK	680
088-05E-14ABB	1	LANDGRAF, O.	1961	250 0	H	5	37 A	10-68	3	QT	735

Table 1.--Records of wells, test-holes, and springs.--Continued

MCCURTAIN COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
058-21E-238DC 1	US CE	1967	80 0	U	6	6 A	3-70	20	BK	470
058-21E-348CB 1			10 0	H	40	0 A	2-70		BK	480
058-22E-27CAA 1	BIBBS, OLLIE, SR.	1969	144 0	H	5	38 A	5-70	3 3	BK	
058-22E-29CDD 1	WATKINS, ELSOM	1969	144 0	H	6	16 A	7-70	8 3	BK	415
058-22E-31CBA 1		1922	22 0	U	40	15 A	2-70		BK	425
058-22E-32ACA 1			20 0	H	40	14 A	2-70		QT	420
068-21E-028BB 1			17 0	H	36	11 A	2-70		BK	410
068-21E-03DDC 1	HARVEY, R.	1964	175 6	H	4	84 A	2-70	20	BK	490
068-21E-108CB 1			26 0	H	36	19 A			QT	
068-21E-20BDB 1			90 0	H	5	33 A			BK	530
068-21E-27AAA 1	MCDUGAL, MARVIN		120 0	U	6	70 A	9-60		BK	540
068-21E-27D 1			363						BK	
068-21E-28DAA 1	HOPEJOY, B.F.	1969	80 0	H	5	32 A	2-70	20	BK	505
068-21E-28DB 1	VALLIANT, OK	1938	363 3	P	12	90 G		200	BK	510
068-21E-30DDD 1			95 0	H	4	40 A	2-70		BK	480
068-21E-31DDC 1	MCLAUGHLIN, W		330	U		F A	1-70	50	BK	400
068-21E-36CCC 1	HARTSELL, C.	1960	92 0	H	6	48 A	1-70	5	BK	495
068-22E-07CCC 1	FELLER BAPT. CH.		16 0	T	36	7 A	2-70	2	QT	420
068-22E-20DDD 1			33 0	H	36	11 A	2-70		QT	400
068-22E-22DDC 1	THOMAS, W		38 0	H		14 A	12-70	10	BK	390
068-22E-30DAC 1	MILLERTON RWD 2		82 6	P					BK	
068-22E-30DBC 1			46 0	H	6	36 A	2-70		BK	470
068-22E-31ADB 1			42 0	H	30	33 A			BK	485
068-22E-32DDD 1	STOREY LUM. CO.	1912	138 6	N	6	70 G	12-44	15	BK	485
068-22E-34ACA 1	WHELLOCK IND. AC		94 0	T	6	44 A	2-70	15	BK	442
068-23E-23A 1	COLBERT, JAMES	1973	141 3	H	5	25 D			BK	440
068-23E-28DDC 1	WESTLY, L.		25 0	H	30	18 A	1-50		BK	382
068-24E-12DAB 1			150 0	H		54 A	2-70	1	BK	480
068-24E-14ABD 1	HATCHERY	1970	200 0	C	10	20 A		50	BK	
068-24E-14DAD 1	OK DA	1957	133 0	I	6	4 A	6-70	30	BK	415
068-24E-20BBC 1			42 0	H	6	11 A	5-70		BK	490
068-24E-20CC 1			28		24	20	1-51		BK	
068-24E-22DAA 1		1970	87 0	H	6	15 A	5-70	5	BK	420
068-24E-26ADC 1	SANDERS, WANDA	1973	3140 3	H	05			15	BK	440
068-24E-27DAA 1			28 0	U	40	2 A	5-70		BK	385
068-25E-19CCC 1	LANE, J	1947	21 0	H	30	8 A	3-48		BK	445
068-25E-20BBC 1	LEWIS, RAYMOND	1972	180 3	H	5	80 D		10	BK	440
068-25E-23ABD 1	BATTIEST, ISAAC	1972	190 3	H	5	175 D		10	BK	420
068-25E-27DDD 1	BRANTLY		26 0	S	80	6 A	2-50		BK	440
068-25E-28DDC 1	WHITEHEAD, JOHN		80						BK	
068-25E-36CCD 1	GOING, WILLIE	1973	140 3	H	5			20	BK	395

Table 1.--Records of wells, test-holes, and springs.--Continued

MCCURTAIN COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
06S-26E-13BC 1	HUDSON, EDNA	1972	180 3	H	5	145 D			BK	430
06S-26E-17ADD 1		1969	34 0	P	8	16 A	7-70	16	BK	350
06S-26E-19DB 1	DIERKS INC	1960	464 6	N		14 G		7	BK	
06S-26E-23ACD 1	BOHANAN, THEODOR		158 3	H		105 D		5	BK	385
07S-21E-22AAA 1	US GS	1951	322 0	U	6	7 A	5-51	34 3	BK	435
07S-21E-22ABA 1		1967	370 0	H	6	F A	2-70	20	BK	415
07S-21E-22AB8 1			310			F		1	BK	397
07S-22E-28AB 1	US GS		356 6	U		3 A	5-51		BK	
07S-23E-07DCC 1	GARVIN, OK		265 0	P	6	89 A		22	BK	492
07S-23E-23BAC 1		1949	200 0	H	10	70 A	6-70	50	BK	490
07S-23E-23888 1	MC, LUMBR, CO.	1949	201 6	H	6	100 A	6-49		BK	498
07S-23E-24BCB 1		1964	380 0	H	4	133 G		20	BK	495
07S-23E-34888 1		1951	347 0		6	128 A			BK	465
07S-24E-01BB 1	MURDOCK		19 0	H	24	3 A	2-50		BK	376
07S-24E-01BDD 1	JOHNSON, J.		31 0	H	24	29 A	12-44		BK	390
07S-24E-12888 1	HONEY CR, FRYERS		205 6	C			4-70	35	BK	
07S-24E-23AA 1	JACKSON, J.C.	1940	105 6	H	4				BK	405
07S-24E-23ACC 1	GEORGE, W.M.	1951	142 0	U	6	98 A	12-70		BK	445
07S-24E-23CD 2	BYRNE, W.	1943	150 6	H	5	63 A	12-49		BK	445
07S-24E-23CDD 1			189 0		8	101 A	12-49		BK	405
07S-24E-27DC 1	STANLEY, N.	1949	267 6	H					BK	480
07S-26E-058CC 1			26 0	U	48	19	2-70		BK	415
07S-26E-20DDD 1	US GS	1951	173 0		6	165 A	5-51	2	BK	
07S-26E-20DDD 2	US GS	1951	262 0	T		70 A	5-51		BK	370
07S-27E-06CAA 1	JONES, WILTON		162 3	H	5			30	BK	330
07S-27E-29BCC 1	US GS	1951	180 0	T					BK	368
08S-23E-02888 1	HURN, O.L.	1947	272	H	6	65			BK	451
08S-24E-01B 1	KIAMICHI, STA.	1949	418 6		8	00 G			BK	
10S-26E-24AAD 1			2000	U		F	1-70	2	BK	320

Table 1.--Records of wells, test-holes, and springs.--Continued

PUSHMATAHA COUNTY

WELL LOCATION	OWNER OR USER	YEAR DRILLED	WELL DEPTH (FT)	WATER USE	WELL DIAMETER (IN)	DEPTH TO WATER (FT)	DATE MEASURED (MO-YR)	WELL YIELD (GAL/MIN)	AQUIFERS	ALTITUDE OF LAND SURFACE (FT)
039-15E-31CBC 1	DUDLEY, L.B.		34 0	H	36	15 A	3-48		BK	
039-15E-33CBB 1		1947	27 0	U	48	9 A	6-70		BK	
039-15E-36BBB 1			51 0	H	5	13 A	6-70	3	BK	
049-15E-03CDC 1			45 0	H	5	17 A	6-70		BK	
049-15E-18CCC 1			48 0	U	6	14 A	4-70		BK	580
049-15E-21ADD 1	BLAN, VIRGIL	1972	108 3	H	5	40 D		8	BK	635
049-15E-26AAA 1			31 0	U	40	20 A	4-70		BK	600
049-15E-30ABB 1			60 0	H	10	9 A	4-70		BK	580
049-16E-04BDB 1	BAKER, ROBERT	1971	71 3	H	5	20 D		5	BK	520
049-16E-12DCC 1			56 0	H	6	12 A	5-70	5	BK	
049-16E-13BCC 1			16 0	U	36	11 A	5-70		BK	
049-16E-16ADA 1			56 0	U	6	9 A	4-70		BK	500
049-16E-19DCD 1	HALL BAPT.CH.		17 0	P	48	3 A	4-70		BK	590
049-16E-21ADA 1	MACK, RICKY	1972	80 3	H	5	41 D		15	BK	535
049-16E-28CCC 1			19 0	H	36	3 A	4-70		BK	510
049-17E-15ADD 1			47 0	H	30	17 A	5-70	2	BK	
049-17E-21CC 1	ROSENTHAL, T.J.	1971	100 3	H	5	25 D		8	BK	490
049-17E-26ADD 1	EVANS, D.M.	1955	32 0	H	30	10 A	5-70		BK	460
049-17E-33AAA 1			38 0	U	6	8 A	5-70		BK	
049-18E-28CRC 1			49 1	U		8 A	10-77		BK	
049-18E-32ABA 1	WILLIAMS	1969	65 0	H	6	13 A	5-70	5	BK	430
049-18E-32BBB 1	SORRELLS, C.	1973	340 3	H	5	20 D		5	BK	460
049-19E-13CCC 1			80 0	H	6	10 A	5-70		BK	610
049-19E-23BB 1	THOMAS, MCNEW	1972	64 3	H	5	15 D		12	BK	640
049-19E-25CAA 1	THREEBULLS, L.		50 0	H	8	13 A	5-70		BK	600
049-19E-31ABC 1			36 0	H	36	27 A	5-70		BK	510
049-20E-31DDA 1	LAWLESS, G.	1912	30 0	H	38	12 A	5-70	5	BK	665

Table 2.--Concentrations of common constituents and physical properties of water from the Antlers aquifer.

Location	Date	Dissolved Calcium (Ca) (mg/L) 1/	Dissolved Magnesium (Mg) (mg/L)	Dissolved Sodium & Potassium (Na+K) (mg/L)	Dissolved Bicarbonate (HCO ₃) (mg/L)	Dissolved Sulfate (SO ₄) (mg/L)	Dissolved Chloride (Cl) (mg/L)	Dissolved Fluoride, (F) (mg/L)	Dissolved Nitrate (NO ₃) (mg/L)	Hardness (Ca, Mg) (mg/L)	Dissolved solids (mg/L)	Specific conductance (µmho/cm @25°C)
ATOKA COUNTY												
3S-12E-20CAB1	1950	18	11	7.1	9	22	10	--	75	90	172	238
BRYAN COUNTY												
5S-07E-36AA 1	1948	3.7	1.1	277	571	35	19	0.2	0.0	14	674	1080
5S-09E-04DBC2	1948	48	10	60	237	56	19	0.0	1.0	161	327	540
5S-10E-16RD 2	1944	2.3	0.6	155	315	41	10	0.2	1.2	8	398	--
6S-09E-19DCB1	1946	2.5	0.8	325	555	44	60	--	0.0	9.6	858	--
6S-09E-19DCB2	1947	2.8	1.2	308	514	20	82	--	0.0	12	830	--
6S-09E-20BBB1	1947	4.0	2.5	342	530	63	75	--	0.2	20	844	--
6S-09E-20CBC1	1946	23	1.4	351	546	53	135	0.7	0.5	64	943	--
6S-12E-27BCA1	1948	3.3	1.7	343	560	39	88	1.0	3.0	15	839	1370
6S-12E-27CBA1	1944	5.9	1.3	255	549	51	58	--	1.2	152	803	--
6S-12E-27CBA3	1951	1.2	0.4	338	603	38	74	1.3	0.4	4	824	1380
7S-08E-24BCC1	1951	28	13	91	269	63	20	0.1	0.1	124	356	593
CHOCTAW COUNTY												
5S-13E-27BBB1	1970	--	--	93	250	175	17	--	0.0	208	499	776
5S-14E-21BAC1	1970	--	--	28	276	9.0	4.0	--	1.4	236	268	473
5S-15E-33DCC1	1970	--	--	6.2	288	24	4.6	--	0.0	254	275	497
5S-16E-24ARB1	1970	--	--	17	20	17	56	--	41	108	271	344
5S-17E-12AAA1	1970	--	--	9.0	92	31	6.4	--	1.5	98	158	238
5S-19E-03DDA1	1970	--	--	3.4	18	5.0	2.6	--	0.0	16	34	40
5S-20E-11RCC1	1970	--	--	2.8	16	21	8.0	--	0.0	40	57	101
5S-20E-31DAC1	1970	--	--	16	40	96	9.0	--	0.0	110	197	313
6S-15E-21CAB1	1970	--	--	41	284	37	8.0	--	0.0	192	311	522
JOHNSTON COUNTY												
3S-08E-25BBB1	1948	14	5.7	29	33	3.2	56	0.0	16	58	173	279
4S-07E-03AC 1	1948	27	8.7	15	21	62	8.0	0.0	0.0	103	215	356
LOVE COUNTY												
7S-02E-13DCD1	1948	48	11	54	202	60	38	0.0	1.0	165	309	635
7S-02E-20BDD1	1948	14	5.0	139	327	25	20	0.3	3.0	56	416	690
7S-02E-36 1	1964	--	--	184	478	17	12	--	--	26	642	934
8S-02E-07DCD1	1948	2.0	1.1	312	565	62	55	2.8	3.0	9.5	725	1180
9S-01E-01DDD1	1948	2.4	1.4	308	569	77	22	0.9	3.0	12	746	1220
7S-02W-17DDD1	1948	35	9.1	5.2	71	8.5	20	0.2	50	125	220	318

1/ Milligrams per liter (mg/L)

Table 2.--Concentrations of common constituents and physical properties of water from the Antlers aquifer.--Continued

Location	Date	Dissolved Calcium (Ca) (mg/L) ^{1/}	Dissolved Magnesium (Mg) (mg/L)	Dissolved Sodium & Potassium (Na+K) (mg/L)	Dissolved Bicarbonate (HCO ₃) (mg/L)	Dissolved Sulfate (SO ₄) (mg/L)	Dissolved Chloride (Cl) (mg/L)	Dissolved Fluoride, (F) (mg/L)	Dissolved Nitrate (NO ₃) (mg/L)	Hardness (Ca, Mg) (mg/L)	Dissolved solids (mg/L)	Specific conductance (µmho/cm @25°C)
MARSHALL COUNTY												
5S-04E-04B 1	1948	8.2	12	129	366	21	18	--	3.0	70	366	617
5S-06E-19CDD1	1948	6.0	7.4	294	579	47	60	0.1	0.5	45	714	1180
6S-05E-20DDD1	1948	56	11	140	314	136	38	0.0	18	185	573	909
6S-06E-31BDB1	1948	3.5	3.1	236	400	87	21	0.1	1.0	22	612	982
7S-04E-03BBB1	1948	41	21	76	264	5.9	20	0.5	100	189	396	655
7S-04E-13B 1	1964	--	--	160	408	59	16	0.5	--	72	480	759
7S-06E-24BBB1	1948	9.2	0.6	107	261	22	14	0.2	1.0	25	310	497
McCURTAIN COUNTY												
5S-21E-34BCB1	1970	--	--	6.7	20	3.0	6.4	--	7.4	20	37	56
6S-21E-03DDC1	1970	--	--	15.1	160	6.2	8.0	--	0.0	116	158	268
6S-21E-27D 1	1951	45	7.5	7.3	180	5.2	3.5	0.1	0.0	143	161	290
6S-21E-28DB 1	1948	40	7.2	1.0	125	5.3	16	0.0	0.0	130	136	293
6S-22E-34ACA1	1949	65	5.2	11	228	--	9.5	--	0.5	184	223	381
6S-25E-19CC1	1948	13	2.1	20	49	3.0	22	0.0	14	41	84	136
7S-21E-22AAA1	1951	58	7.4	43	280	20	12	--	1.1	175	296	494
7S-22E-28AB 1	1951	30	11	202	278	88	170	--	0.8	120	682	1180
7S-23E-07DCC1	1944	13	3.6	99	227	43	16	1.0	2.2	48	305	--
7S-23E-24BCB1	1970	--	--	196	220	40	208	--	0.0	88	588	1090
7S-24E-01BDD1	1944	21	3.0	8.7	60	2	7.0	--	20	65	139	--
7S-24E-23AA 1	1948	39	7.4	113	169	51	127	0.1	2.0	128	430	859
7S-24E-23ACC1	1949	82	14	93	325	53	101	--	0.0	262	523	923
7S-24E-23CDD1	1949	146	35	289	493	459	181	--	0.2	508	1410	2060
7S-24E-27DC 1	1949	12	3.1	656	562	471	365	--	4.5	43	1810	2850
8S-23E-02BBB1	1948	94	10	123	96	17	300	0.1	30	276	694	1190
8S-24E-01B 1	1949	29	13	1140	612	222	1320	3.0	4.0	126	3000	5090
PUSHMATAHA COUNTY												
8S-15E-31CBC1	1948	4.0	3.3	9.4	10	1.6	15	0.0	16	24	108	107

^{1/} Milligrams per liter (mg/L).

Table 3.--Radiochemical analyses of water from selected wells in the Antlers aquifer, March 1975.

Constituent or property	Reporting units	Concentrations at well locations			
		7S-2E-20ADD1 Marietta, Love Co.	5S-10E-16BDB1 Caddo, Bryan Co.	6S-17E-21DAC1 Hugo, Choctaw Co.	6S-22E-30DAC1 Millerton, McCurtain Co.
Dissolved gross alpha, U (natural)	<u>1</u> /μg/L	< 7.4	< 9.3	8.9	6.4
Dissolved gross beta, Cesium-137	<u>2</u> /pCi/L	3.2	3.7	4.5	3.2
Dissolved gross beta, Strontium-90	pCi/L	2.7	3.0	3.7	2.5
Dissolved Potassium-40	pCi/L	0.7	0.2	0.9	0.4
Depth of well	ft	805	404	429	82
Thickness of Antlers aquifer penetrated	ft	700	300	100	82

1/ Micrograms per liter (μg/L).

2/ Picocuries per liter (pCi/L).

Table 4.--Concentrations of selected trace elements and physical properties of water from selected wells in the Antlers aquifer, October 1975.

Constituent or property	Concentration								
	7S-2E-20ADD1 Marietta, Love Co.	4S-4E-16DBB1 Mannsville, Johnston Co.	6S-6E-30BDC2 Kingston, Marshall Co.	5S-10E-16BDB1 Caddo, Bryan Co.	6S-12E-27CBA1 Bennington, Bryan Co.	6S-17E-21DAC1 Hugo, Choctaw Co.	6S-19E-24ABD1 Fort Towson, Choctaw Co.	6S-22E-30DAC1 Millerton, McCurtain Co.	6S-25E-28DNC1 Broken Bow, McCurtain Co.
Dissolved Arsenic (As) ($\mu\text{g/L}$)	1	1	0	0	0	0	0	0	0
Dissolved Cadmium (Cd) ($\mu\text{g/L}$)	0	1	0	0	0	0	0	0	1
Dissolved Chromium (Cr) ($\mu\text{g/L}$)	0	0	0	0	0	4	0	4	4
Dissolved Mercury (Hg) ($\mu\text{g/L}$)	0	0	0	0	0	0.1	0	0	0
Dissolved Selenium (Se) ($\mu\text{g/L}$)	0	0	0	0	0	0	0	0	0
Dissolved Barium (Ba) ($\mu\text{g/L}$)	100	100	0	0	0	100	100	100	0
Dissolved Copper (Cu) ($\mu\text{g/L}$)	4	5	0	0	2	3	0	35	19
Dissolved Fluoride (F) (mg/L)	0.4	0.3	0.3	0.3	1.3	0.2	0.1	0.1	0.1
Dissolved Iron (Fe) ($\mu\text{g/L}$)	20	10	30	90	10	40	440	20	0
Dissolved Lead (Pb) ($\mu\text{g/L}$)	2	0	0	0	1	1	0	0	2
Dissolved Manganese (Mn) ($\mu\text{g/L}$)	0	0	0	5	0	120	60	10	4
Dissolved Zinc (Zn) ($\mu\text{g/L}$)	10	20	20	6	20	4	6	30	8
pH	8.5	6.8	8.8	9.2	9.3	6.7	6.8	4.9	5.0
Specific conductance ($\mu\text{mho/cm}$ @ 25°C)	790	580	880	1,120	1,120	560	410	49	30
Temperature (°C)	24	19	20	18	22	21	24	20	21
Well depth (ft)	805	45	500	404	750	429	35	82	80
Thickness of Antlers aquifer penetrated by well (ft)	700	45	210	300	340	100	35	82	80

Table 5.--Low-flow discharge measurements for selected streams.

Station name	Location	Drainage area, mi ²	Date	Discharge, ft ³ /s	Specific conductance, µmhos/cm @ 25°C
Little Huauni Creek near Lebanon, OK	6S-4E-17CCC	25.0	10/28/75	2.7	550
			11/17/75	2.6	590
			12/11/75	3.0	605
			1/21/76	3.3	675
Davis Creek at Caney, OK	4S-10E-01CDD	14.2	10/29/75	0.4	450
			11/17/75	0.6	470
			12/11/75	1.1	510
			1/21/76	1.1	530
Dumpling Creek near Antlers, OK	4S-16E-22DDC	24.2	10/29/75	0.7	110
			11/18/75	2.4	60
			12/12/75	4.8	130
			1/22/76	4.2	130
West Branch of Gates Creek near Fort Towson, OK	6S-18E-06BDB	18.9	10/29/75	3.5	40
			11/18/75	4.0	38
			12/12/75	5.2	36
			1/22/76	4.7	31

