

WELL RECORDS, WATER-LEVEL MEASUREMENTS, LOGS OF TEST HOLES, AND  
CHEMICAL ANALYSES OF GROUND WATER IN THE CACHE RIVER ALLUVIAL  
AQUIFER-STREAM SYSTEM, NORTHEAST ARKANSAS, 1946-76

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U.S. Geological Survey

Open-File Report 77-402

Prepared in cooperation with the  
Arkansas Geological Commission



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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By P. W. Westerfield

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Little Rock, Arkansas

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ABSTRACT

Most of the ground-water data for the Cache River alluvial aquifer-stream system in northeast Arkansas were collected between March 1973 and April 1976, but some were collected as early as April 1946. The data includes records of 363 wells and test holes, water-level measurements of 295 wells, logs of 32 test holes, and chemical analyses of water samples from 85 wells.

## INTRODUCTION

This report contains ground-water data collected during a study of the Cache River alluvial aquifer-stream system in northeast Arkansas. The location of the area is shown in figure 1. The data were collected by the U.S. Geological Survey in cooperation with the Arkansas Geological Commission. Most of the data were collected between March 1973 and April 1976, but some were collected as early as April 1946. Data presented includes records of 363 wells and test holes, water-level measurements of 295 wells, logs of 32 test holes, and chemical analyses of water samples from 85 wells. All altitudes in the tables are referenced to mean sea level.

The well-numbering system used in the report is based on the Federal land-survey system as it is used in Arkansas (fig. 2). The component parts of a well-location number are the township number, the range number, the section number, and letters that indicate, respectively, the quarter section, the quarter-quarter section, and the quarter-quarter-quarter section (10-acre tract) in which the well is located. Letters are assigned in counter-clockwise order beginning with "A" in the northeast quarter and ending with "D" in the southeast quarter. Appended numbers indicate whether more than one well has been inventoried in a quarter-quarter-quarter section. In this manner, well sites are located on the area map (fig. 1).

For those readers who may prefer metric units rather than English units, the conversion factors for the terms used in this report are listed below:

<u>Multiply English unit</u>	<u>By</u>	<u>To obtain metric unit</u>
inches (in)	2.540	centimeters (cm)
feet (ft)	0.3048	meters (m)
acres	$0.047 \times 10^{-3}$	square kilometers (km <sup>2</sup> )
gallons per minute (gal/min)	$6.309 \times 10^{-2}$	liters per second (L/s)

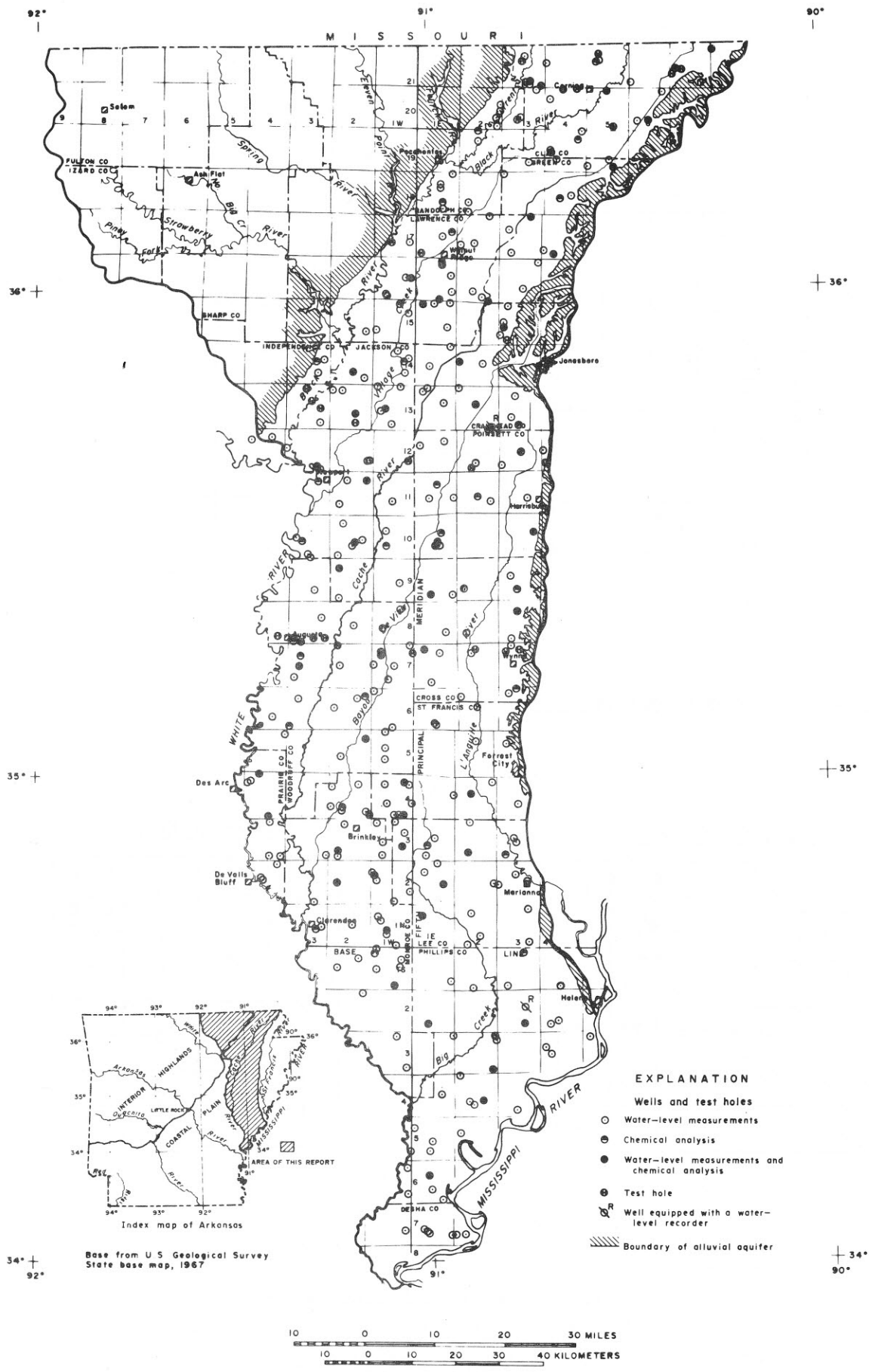


Figure 1.— Locations of wells and test holes.



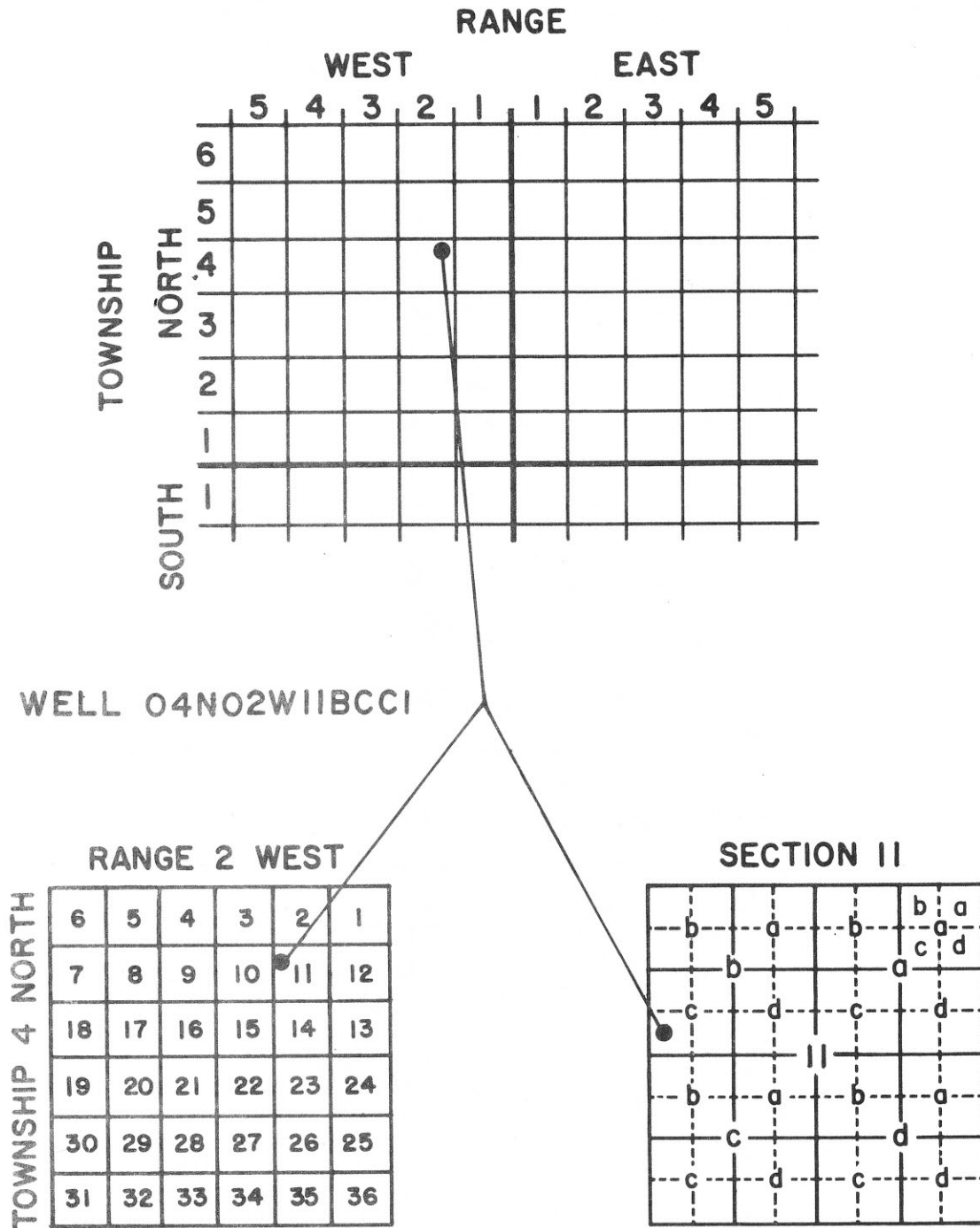


Figure 2.— Well-numbering system.

TABLE 1.—RECORDS OF TEST HOLES AND WELLS IN CLAY COUNTY, ARK.

Type of site: T, test hole; W, well.  
 Principal aquifer: I11A1W, alluvium of Quaternary age; I12TRRC, terrace deposits of Quaternary age.  
 Use of water: H, domestic; I, irrigation; S, stock; U, unused

Remarks: G, lithologic log included in report, see table 3; L, water-level measurements included in report, see table 2; Q, chemical analyses of water included in report, see table 4.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
19N04E01ABB1	361924090354601	Ray Niedermeider	W	I12TRRC	281	90	I	---	---	---	---	---	L
19N04E11DAA1	361805090363701	Ethan Dodd	W	I12TRRC	280	88	I	15.5	398	6-27-74	1,500	6-27-74	Q
19N04E19AAA1	361651090404501	Mrs. C. A. Recker	W	I12TRRC	282	--	I	---	---	---	---	---	L
19N04E19ABA1	361654090410501	Woodrow Stacy	W	I12TRRC	286	96	H	---	---	---	---	---	L
20N03E02ADD1	3624119090425301	---	W	I11ALVM	295	27	U	---	---	---	---	---	L
20N04E02ABB1	362441090363901	---	T	I12TRRC	288	121	U	---	---	---	---	---	L
20N04E04AAB1	362441090383701	Harold Arnold	W	I12TRRC	292	125	I	15.5	341	7-11-74	1,150	7-11-74	Q, L
20N04E07DDD1	362302090403801	---	W	I12TRRC	290	---	I	---	---	---	---	---	L
20N05E04ACC1	362405090322601	---	T	I11ALVM	285	139	U	---	---	---	---	---	L
20N05E34DBA1	361938090311601	Buck Sellmeyer	W	I12TRRC	285	---	U	15.5	501	6-27-74	950	6-27-74	Q, L
20N06E02DAD1	362338090232401	---	W	I12TRRC	292	65	I	---	---	---	---	---	L
20N06E28DDA1	362011090253601	Doin Bowers	W	I12TRRC	294	120	I	15.5	638	7-16-74	700	7-16-74	Q
20N06E29DCD1	362003090272901	Wallace Crockett	W	I12TRRC	283	---	I	15.5	630	7-31-73	1,078	7-31-73	L
21N03E10CCB1	362831090445201	---	W	I11ALVM	292	31	S	---	---	---	---	---	L
21N03E16ADD1	362757090445501	---	T	I12TRRC	292	46	U	---	---	---	---	---	G
21N03E34ACD1	362515090440901	Fred Brown	W	I12TRRC	286	70	I	15.0	694	6-26-74	1,050	6-26-74	Q, L
21N03E34ADA1	362526090435201	---	W	I12TRRC	283	---	I	---	---	---	---	---	L
21N03E34BAB1	362530090444001	---	T	I12TRRC	286	71	U	---	---	---	---	---	G
21N03E36CDD1	362446090421501	---	T	I11ALVM	294	131	U	---	---	---	---	---	G
21N04E18CBB1	362749090413601	---	W	I12TRRC	296	38	S	---	---	---	---	---	L
21N05E08ABD1	362840090331401	---	T	I11ALVM	302	91	U	---	---	---	---	---	L
21N05E17ABB1	362759090332401	D and E Farms	W	I12TRRC	300	105	I	---	---	---	---	---	L
21N05E17BAD1	362753090333501	D and E Farms	W	I12TRRC	301	105	I	15.0	335	6-26-74	500	6-26-74	Q
21N06E51BBA1	362513090282901	---	W	I11ALVM	289	---	I	---	---	---	---	---	L
21N07E19DEB1	362629090214401	Almon	W	I12TRRC	297	140	I	15.5	693	6-26-74	1,500	6-26-74	Q, L
21N07E20DDC1	362602090202501	---	T	I12TRRC	315	81	U	---	---	---	---	---	L
21N07E30ABA1	362600090210301	---	T	I12TRRC	292	116	U	---	---	---	---	---	G
21N08E06CBB1	362900090155001	---	T	I12TRRC	303	111	U	---	---	---	---	---	G

TABLE 2.—MEASUREMENTS OF WATER LEVELS IN WELLS, CLAY COUNTY, ARK.

19N04E01ABB1. RAY NIEDERMEIDER. DUG IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 48 IN. DEPTH 90 FT. LSD 281 FT ABOVE MSL. MP TOP OF LOWER HORIZONTAL METAL SUPPORT, 1.40 FT ABOVE LSD.

ALTITUDE OF LAND SURFACE 281.00 FEET.

HIGHEST WATER LEVEL 2.96 BELOW LSD, MAY 1, 1973,

LOWEST WATER LEVEL 9.75 BELOW LSD, NOV. 7, 1973.

RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 4, 1973	3.77	OCT. 2, 1973	9.11	MAR. 6, 1974	5.50	APR. 18, 1975	4.29
MAY 1	2.96	NOV. 7	9.75	APR. 3	5.24	OCT. 3	9.38
JULY 26	4.48A	DEC. 5	8.15	MAY 2	5.40	MAR. 17, 1976	6.77

A--PUMPING WATER LEVEL.

19N04E19AAA1. MRS. C. A. HECKER. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN. LSD 282 FT ABOVE MSL. MP END OF DISCHARGE PIPE, 8.00 FT ABOVE LSD.

ALTITUDE OF LAND SURFACE 282.00 FEET.

HIGHEST WATER LEVEL 12.66 BELOW LSD, MAY 1, 1973,

LOWEST WATER LEVEL 22.14 BELOW LSD, MAR. 29, 1971.

RECORDS AVAILABLE 1957, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 16, 1957	19.32	MAR. 29, 1971	22.14	OCT. 2, 1973	17.83	MAY 2, 1974	15.40
APR. 12, 1967	21.50	APR. 6, 1972	17.20	NOV. 7	17.83	APR. 18, 1975	15.95
APR. 9, 1968	18.59	MAR. 23, 1973	15.80	MAR. 6, 1974	15.99	OCT. 3	18.40
MAR. 21, 1969	19.44	APR. 4	15.70	APR. 3	15.58	MAR. 17, 1976	17.15
APR. 3, 1970	21.60	MAY 1	12.66				

20N03E02ADD1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 27 FT. LSD 285 FT ABOVE MSL. MP TOP OF PIPE, 2.20 FT ABOVE LSD. WELL DESTROYED.

ALTITUDE OF LAND SURFACE 295.00 FEET.

HIGHEST WATER LEVEL 12.53 BELOW LSD, MAY 27, 1973,

LOWEST WATER LEVEL 18.57 BELOW LSD, NOV. 2, 1973.

RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 27, 1973	12.53	NOV. 2, 1973	18.57	MAR. 6, 1974	14.87	MAY 2, 1974	14.40
SEP. 28	18.15	DEC. 5	15.30	APR. 4	14.85		

20N04E04AAB1. HAROLD ARNOLD. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 125 FT. LSD 292 FT ABOVE MSL. MP HOLE IN PUMP BASE NORTH SIDE, AT LSD.

ALTITUDE OF LAND SURFACE 292.00 FEET.

HIGHEST WATER LEVEL 11.86 BELOW LSD, MAY 1, 1973,

LOWEST WATER LEVEL 18.55 BELOW LSD, FEB. 11, 1957.

RECORDS AVAILABLE 1957, 1967-74, 19 .

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 11, 1957	18.55	APR. 3, 1970	15.27	MAR. 22, 1973	12.94	NOV. 2, 1973	15.13
APR. 12, 1967	15.00	MAR. 29, 1971	14.33	APR. 4	12.64	DEC. 5	14.94
APR. 9, 1968	14.50	APR. 7, 1972	15.78	MAY 1	11.86	MAR. 6, 1974	13.14
MAR. 21, 1969	14.12	OCT. 27	16.10	SEP. 28	14.85		

TABLE 2.—MEASUREMENTS OF WATER LEVELS IN WELLS, CLAY COUNTY, ARK.—CONTINUED

20N04E07DDD1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 290 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 290.00 FEET.

HIGHEST WATER LEVEL 12.84 BELOW LSD, MAR. 27, 1975,  
LOWEST WATER LEVEL 14.70 BELOW LSD, OCT. 2, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 27, 1973	13.72	MAR. 6, 1974	13.71	MAY 2, 1974	13.81	OCT. 2, 1975	14.70
SEP. 28	14.20	APR. 4	13.84	MAR. 27, 1975	12.84	MAR. 18, 1976	14.01
NOV. 2	14.48						

20N05E34DBA1. BUCK SELLMYER. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 110 FT. LSD 285 FT ABOVE MSL. MP PLUG IN PUMP BASE SOUTHEAST SIDE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 285.00 FEET.

HIGHEST WATER LEVEL 3.55 BELOW LSD, MAY 1, 1973,  
LOWEST WATER LEVEL 14.03 BELOW LSD, APR. 12, 1967.  
RECORDS AVAILABLE 1957, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 16, 1957	13.72	MAR. 29, 1971	8.98	OCT. 2, 1973	11.31	MAY 2, 1974	11.60
APR. 12, 1967	14.03	APR. 6, 1972	11.05	NOV. 7	11.44	APR. 18, 1975	4.16
APR. 9, 1968	7.98	MAR. 23, 1973	5.98	MAR. 6, 1974	6.60	OCT. 2	11.20
MAR. 21, 1969	9.75	APR. 4	5.53	APR. 3	8.06	MAR. 17, 1976	8.08
APR. 3, 1970	11.13	MAY 1	3.55				

20N06E02DAD1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 65 FT. LSD 292 FT ABOVE MSL. MP TOP OF PITCHER, 4.30 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 292.00 FEET.

HIGHEST WATER LEVEL 2.75 BELOW LSD, MAY 1, 1973,  
LOWEST WATER LEVEL 9.66 BELOW LSD, NOV. 2, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1973	4.30	OCT. 2, 1973	9.28	APR. 4, 1974	7.30	OCT. 2, 1975	8.14
APR. 4	3.55	NOV. 2	9.66	MAY 2	7.27	MAR. 17, 1976	6.64
MAY 1	2.75	MAR. 6, 1974	5.99	APR. 18, 1975	5.52		

20N06E29CDC1. WALLACE CROCKETT. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 263 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, 0.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 283.00 FEET.

HIGHEST WATER LEVEL 0.44 BELOW LSD, APR. 18, 1975,  
LOWEST WATER LEVEL 7.52 BELOW LSD, NOV. 2, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1973	1.28	OCT. 2, 1973	7.21	APR. 3, 1974	2.80	OCT. 3, 1975	5.58
APR. 4	1.02	NOV. 2	7.52	MAY 2	3.16	MAR. 17, 1976	2.43
JULY 31	37.20A	MAR. 6, 1974	2.34	APR. 18, 1975	0.44		

A--PUMPING WATER LEVEL.

TABLE 2.—MEASUREMENTS OF WATER LEVELS IN WELLS, CLAY COUNTY, ARK.—CONTINUED

21N03E10CCB1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 31 FT. LSD 292 FT ABOVE MSL. MP TOP OF PITCHER, 3.00 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 292.00 FEET.

HIGHEST WATER LEVEL 1.73 BELOW LSD, MAY 1, 1973,  
 LOWEST WATER LEVEL 7.99 BELOW LSD, SEP. 28, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 22, 1973	2.65	MAY 1, 1973	1.73	NOV. 2, 1973	7.17	MAR. 6, 1974	4.60
APR. 4	2.94	SEP. 28	7.99	DEC. 5	1.77	APR. 4	4.67

21N03E34ACD1. FRED BROWN. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 70 FT. LSD 286 FT ABOVE MSL. MP TOP OF CASING WEST SIDE, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 286.00 FEET.

HIGHEST WATER LEVEL 1.75 BELOW LSD, MAY 1, 1973,  
 LOWEST WATER LEVEL 12.11 BELOW LSD, OCT. 2, 1975.  
 RECORDS AVAILABLE 1966, 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 17, 1966	10.50	MAY 1, 1973	1.75	DEC. 5, 1973	8.13	MAY 2, 1974	6.30
MAR. 22, 1973	4.93	SEP. 28	10.92	MAR. 6, 1974	7.24	MAR. 27, 1975	4.87
APR. 4	5.38	NOV. 2	11.27	APR. 4	7.14	OCT. 2	12.11

21N03E34ADA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 283 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 283.00 FEET.

HIGHEST WATER LEVEL 2.75 BELOW LSD, MAR. 22, 1973,  
 LOWEST WATER LEVEL 8.98 BELOW LSD, MAR. 18, 1976.  
 RECORDS AVAILABLE 1973, 1976.  
 MAR. 22, 1973 2.75, MAR. 18, 1976 8.98.

21N04E18CBB1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 38 FT. LSD 296 FT ABOVE MSL. MP TOP OF PITCHER, 3.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 296.00 FEET.

HIGHEST WATER LEVEL 4.32 BELOW LSD, MAY 1, 1973,  
 LOWEST WATER LEVEL 13.40 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 22, 1973	6.36	SEP. 28, 1973	12.88	MAR. 6, 1974	8.83	MAR. 27, 1975	7.20
APR. 4	6.98	NOV. 2	13.40	APR. 4	9.21	OCT. 2	12.33
MAY 1	4.32	DEC. 5	12.00	MAY 2	9.54	MAR. 18, 1976	10.17

TABLE 2.—MEASUREMENTS OF WATER LEVELS IN WELLS, CLAY COUNTY, ARK.—CONTINUED

21N05E17ABB1. D. AND E. FARMS. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 105 FT. LSD 300 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 300.00 FEET.

HIGHEST WATER LEVEL 10.30 BELOW LSD, MAY 1, 1973,  
 LOWEST WATER LEVEL 25.32 BELOW LSD, JUNE 2, 1967.  
 RECORDS AVAILABLE 1955, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 28, 1955	16.92	AUG. 19, 1969	17.92	MAY 1, 1973	10.30	APR. 4, 1974	12.10
JAN. 26, 1967	16.20	APR. 3, 1970	14.74	JULY 26	27.90A	MAY 2	12.19
APR. 12	13.83	MAR. 29, 1971	13.18	OCT. 2	15.68	MAR. 27, 1975	11.20
JUNE 2	25.32	APR. 7, 1972	15.59	NOV. 2	16.00	OCT. 2	15.69
APR. 9, 1968	12.87	MAR. 22, 1973	11.15	MAR. 6, 1974	12.20	MAR. 18, 1976	12.44
MAR. 21, 1969	14.40	APR. 4	10.91				

A--PUMPING WATER LEVEL.

21N06E31BBA1. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN. LSD 289 FT ABOVE MSL. MP TOP EDGE OF DISCHARGE PIPE, 4.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 289.00 FEET.

HIGHEST WATER LEVEL 1.04 BELOW LSD, MAR. 22, 1973,  
 LOWEST WATER LEVEL 6.95 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1958, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 10, 1958	3.74	MAR. 29, 1971	5.20	NOV. 2, 1973	6.70	MAY 2, 1974	2.31
APR. 12, 1967	5.32	APR. 7, 1972	5.45	DEC. 5	2.67	APR. 18, 1975	1.63
APR. 9, 1968	1.58	MAR. 22, 1973	1.04	MAR. 6, 1974	1.58	OCT. 2	5.71
MAR. 21, 1969	4.97	APR. 4	1.32	APR. 4	2.08	MAR. 17, 1976	3.24
APR. 3, 1970	3.62	OCT. 2	6.95				

21N07E19DDB1. ALMON. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN. DEPTH 140 FT. LSD 297 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, 0.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 297.00 FEET.

HIGHEST WATER LEVEL 2.68 BELOW LSD, MAY 1, 1973,  
 LOWEST WATER LEVEL 7.50 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1973	3.38	OCT. 2, 1973	7.10	APR. 4, 1974	4.00	OCT. 2, 1975	6.62
APR. 4	3.02	NOV. 2	7.50	MAY 2	4.19	MAR. 18, 1976	4.66
MAY 1	2.68	MAR. 6, 1974	4.07	APR. 18, 1975	3.28		

TABLE 3.—LOG OF TEST HOLES AND WELLS

CLAY COUNTY, ARKANSAS

362441090363901. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 27, 1975  
 LAND SURFACE ALTITUDE 288 FT.

LOCATION: 20N04E02ABB1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
SAND, FINE, SILTY, YELLOWISH-GRAY -----	7.0	8.0
SAND, FINE TO MEDIUM, SILTY, LIGNITIC, DARK GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS -----	21.0	29.0
SAND, FINE TO MEDIUM, LIGHT GRAY-----	28.0	57.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL-----	15.0	72.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS -----	32.0	104.0
GRAVEL, SANDY; CONTAINS SOME CALCITIC GRAINS----	12.0	116.0
CRETACEOUS(?) DEPOSITS:		
CLAY, CALCAREOUS, YELLOWISH-GRAY, INTERBEDDED WITH THIN-BEDDED CRYSTALLINE LIMESTONE -----	5.0	121.0

TABLE 3.—LOG OF TEST HOLES AND WELLS--CONTINUED

CLAY COUNTY, ARKANSAS

362405090322601. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 28, 1975  
 LAND SURFACE ALTITUDE 285 FT.

LOCATION: 20N05E04ACC1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	5.0	5.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, CALCAREOUS, MOTTLED YELLOW AND GRAY TO REDDISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	15.0	20.0
SAND, FINE, SILTY, LIGNITIC, DARK GRAY -----	9.0	29.0
SAND, FINE TO MEDIUM-----	10.0	39.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL-----	31.0	70.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS -----	18.0	88.0
GRAVEL, SANDY; CONTAINS SOME CALCITIC GRAINS -----	36.0	124.0
CRETACEOUS(?) DEPOSITS:		
NO SAMPLE; DRILLING CHARACTERISTIC OF CONSOLIDATED ROCK; AUGER STEM BROKE NEAR BOTTOM OF HOLE -----	15.0	139.0



TABLE 3.-LOG OF TEST HOLES AND WELLS--CONTINUED

CLAY COUNTY, ARKANSAS

362757090445501. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 30, 1975  
 LAND SURFACE ALTITUDE 292 FT.

LOCATION: 21N03E16ADD1.

	THICKNESS (FEET)	DEPTH (FEET)
SOIL-----	2.0	2.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, MOTTLED YELLOW AND GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS -----	17.0	19.0
SAND, FINE TO COARSE, GRAVELLY, POORLY SORTED -----	21.0	40.0
CRETACEOUS(?) DEPOSITS:		
NO SAMPLE, DRILLING CHARACTERISTIC OF CONSOLIDATED SEDIMENTS -----	6.0	46.0

TABLE 3.-LOG OF TEST HOLES AND WELLS--CONTINUED  
 CLAY COUNTY, ARKANSAS

362530090444001. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 30, 1975  
 LAND SURFACE ALTITUDE 286 FT.

LOCATION: 21N03E34BAB1.

	THICKNESS (FEET)	DEPTH (FEET)
SOIL-----	2.0	2.0
QUATERNARY DEPOSITS:		
CLAY, MOTTLED YELLOW AND GRAY; CONTAINS FINE FERRIC OXIDE CONCRE- TIONS AND PYRITIC SPECKS-----	7.0	9.0
SILT, CLAYEY, BROWNISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	6.0	15.0
SAND, FINE, SILTY, BROWNISH-GRAY-----	3.0	18.0
SAND, FINE TO MEDIUM, SILTY -----	10.0	28.0
SAND, FINE TO MEDIUM, SILTY; CONTAINS SOME LIGNITIC FRAGMENTS -----	25.0	53.0
SAND, MEDIUM TO COARSE, SOME COARSE SAND AND FINE GRAVEL-----	17.0	70.0
CRETACEOUS(?) DEPOSITS:		
CLAY, CALCAREOUS, LIGHT GRAY; CONTAINS CHALKY LAMINAE -----	1.0	71.0

TABLE 3.-LOG OF TEST HOLES AND WELLS--CONTINUED

CLAY COUNTY, ARKANSAS

362446090421501. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 30, 1975  
 LAND SURFACE ALTITUDE 294 FT.

LOCATION: 21N03E36CDD1.

	THICKNESS (FEET)	DEPTH (FEET)
QUATERNARY DEPOSITS:		
SAND, FINE, SILTY, REDDISH TO YELLOWISH-GRAY -----	13.0	13.0
SAND, FINE TO MEDIUM-----	17.0	30.0
SAND, MEDIUM TO COARSE, CONTAINS SOME LIGNITIC FRAGMENTS -----	30.0	60.0
SAND, COARSE TO VERY COARSE, SOME FINE GRAVEL -----	7.0	67.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	19.0	86.0
GRAVEL, SANDY -----	40.0	126.0
CRETACEOUS(?) DEPOSITS:		
NO SAMPLE; DRILLING CHARACTERISTIC OF CONSOLIDATED SEDIMENTS -----	5.0	131.0

TABLE 3.—LOG OF TEST HOLES AND WELLS--CONTINUED

CLAY COUNTY, ARKANSAS

362840090331401. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 27, 1975  
 LAND SURFACE ALTITUDE 302 FT.

LOCATION: 21N05E08ABD1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
SILT, CLAYEY TO SANDY, YELLOWISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS -----	13.0	14.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	4.0	18.0
SAND, FINE; CONTAINS SOME CALCITIC GRAINS AND LIGNITIC FRAGMENTS -----	20.0	38.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	10.0	48.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS -----	20.0	68.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS -----	3.0	71.0
CRETACEOUS(?) DEPOSITS:		
SANDSTONE, FINE TO MEDIUM, CALCAREOUS CEMENT; CONTAINS SOME CHERTY AND GLAUCONITIC GRAINS -----	20.0	91.0

TABLE 3.--LOG OF TEST HOLES AND WELLS--CONTINUED

CLAY COUNTY, ARKANSAS

362602090202501. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 28, 1975  
 LAND SURFACE ALTITUDE 315 FT.

LOCATION: 21N07E20DDC1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	4.0	4.0
QUATERNARY DEPOSITS:		
SILT, SANDY, YELLOWISH-GRAY -----	5.0	9.0
SAND, FINE TO COARSE, SILTY, POORLY SORTED -----	8.0	17.0
SILT, SANDY, YELLOWISH-GRAY -----	18.0	35.0
SAND, SILTY TO GRAVELLY; POORLY SORTED -----	43.0	78.0
TERTIARY DEPOSITS:		
CLAY, SILTY, PURPLISH GRAY; CONTAINS CARBONACEOUS LAMINAE-----	3.0	81.0

TABLE 3.-LOG OF TEST HOLES AND WELLS--CONTINUED

CLAY COUNTY, ARKANSAS

362600090210301. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 29, 1975  
 LAND SURFACE ALTITUDE 292 FT.

LOCATION: 21N07E30ABA1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	3.0	3.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS-----	4.0	7.0
SILT, CLAYEY, YELLOWISH-GRAY; CONTAINS SOME CARBONACEOUS LAMINAE AND PYRITIC SPECKS -----	18.0	25.0
SILT, CLAYEY, MEDIUM GRAY; CONTAINS SOME PYRITIC SPECKS -----	12.0	37.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	21.0	58.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL-----	20.0	78.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	30.0	108.0
TERTIARY(?) DEPOSITS:		
NO SAMPLE; DRILLING CHARACTERISTIC OF FINE SAND -----	8.0	116.0

TABLE 3.-LOG OF TEST HOLES AND WELLS--CONTINUED

CLAY COUNTY, ARKANSAS

362900090155001. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 29, 1975  
 LAND SURFACE ALTITUDE 303 FT.

LOCATION: 21N08E06CBB1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY; CONTAINS SOME FINE FERRIC OXIDE CONCRETIONS -----	6.0	7.0
CLAY, CALCARIOUS, BROWNISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	6.0	13.0
SILT, SANDY, YELLOWISH-GRAY; CONTAINS SOME CALCITIC GRAINS, FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	7.0	20.0
SAND, FINE, SILTY, BROWNISH-GRAY-----	17.0	37.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS, AND SOME LIGNITIC FRAGMENTS -----	46.0	83.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS -----	20.0	103.0
TERTIARY DEPOSITS:		
CLAY, DARK GRAY, CONTAINS SOME CALCAREOUS LAMINAE -----	8.0	111.0

TABLE 4.—CHEMICAL ANALYSES OF GROUND WATER, CLAY COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEOLOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (°EG C)	FLOW RATE (GPM)	TURBIDITY (JTU)
361654090410501	021	19N04E19ABA1	GW	112TRRC	74-06-27	96	--	--	--
361805090363701	021	19N04E11DAA1	GW	112TRRC	74-06-27	88	15.5	1500	--
361938090311601	021	20N05E34DBA1	GW	112TRRC	67-08-08	--	16.0	--	--
362011090253601	021	20N06E28DDA1	GW	112TRRC	74-06-27	--	15.5	950	--
362441090383701	021	20N04E04AAB1	GW	112TRRC	74-07-16	120	15.5	700	--
362515090440901	021	21N03E34ACD1	GW	112TRRC	67-08-08	--	16.6	--	--
362629090214401	021	21N07E19DB81	GW	112TRRC	74-07-11	--	15.5	1150	--
362753090333501	021	21N05E17BAD1	GW	112TRRC	74-06-26	70	15.0	1050	--
						105	15.5	1500	--
							15.0	500	1

STATION NUMBER	DATE OF SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
361654090410501	74-06-27	5	282	--	7.6	6.7	136	166	0	--	--
361805090363701	74-06-27	2	398	--	6.9	49	200	244	0	--	--
361938090311601	67-08-08	1	420	--	7.8	6.9	223	272	0	--	--
362011090253601	74-06-27	3	501	--	7.0	49	250	305	0	--	--
362441090383701	74-07-16	3	638	--	7.2	40	322	393	0	--	--
362515090440901	67-08-08	1	694	--	7.8	6.8	220	268	0	--	--
362629090214401	74-07-11	3	341	--	7.3	16	166	202	0	--	--
362753090333501	74-06-26	3	694	--	7.1	36	233	284	0	--	--
362753090333501	74-06-26	2	693	--	7.1	57	371	452	0	--	--
362753090333501	74-06-26	--	335	1	7.1	26	169	206	0	0.36	0.03



TABLE 4.—CHEMICAL ANALYSES OF GROUND WATER, CLAY COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	TOTAL AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL SULFIDE (S) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
361654090410501	74-06-27	--	--	--	--	.12	.22	.22	.22	--	130	0
361805090363701	74-06-27	--	--	--	--	.03	.42	.42	.42	.4	160	0
361938090311601	67-08-08	--	--	.00	--	--	--	--	--	--	205	0
	74-06-27	--	--	--	--	.09	.35	.35	.35	.4	230	0
362011090253601	74-07-16	--	.01	.83	--	.84	--	--	--	--	260	0
362441090383701	67-08-08	--	--	.00	--	--	--	--	--	--	230	10
	74-07-11	--	.00	.01	--	.01	--	--	--	--	160	0
362515090440901	74-06-26	--	--	--	--	.00	.18	.18	.18	--	230	0
362629090214401	74-06-26	--	--	--	--	.76	--	--	.1	.1	330	0
362753090333501	74-06-26	.10	--	--	.13	--	.23	.23	.84	--	--	--

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)
361654090410501	74-06-27	40	8.2	6.3	.2	2.0	2.7	8.2	.2	40
361805090363701	74-06-27	44	12	23	.8	1.6	5.8	4.9	.2	37
361938090311601	67-08-08	59	14	10	.3	1.9	4.8	.2	.1	34
	74-06-27	68	15	17	.5	2.0	11	5.0	.2	37
362011090253601	74-07-16	74	19	37	1.0	3.5	9.5	16	.2	36
362441090383701	67-08-08	69	14	54	1.5	3.0	74	28	.2	26
	74-07-11	50	8.2	10	.3	1.4	8.3	4.3	.2	36
362515090440901	74-06-26	68	15	53	1.5	2.8	62	36	.2	29
362629090214401	74-06-26	93	24	24	.6	3.0	8.1	1.5	.2	30
362753090333501	74-06-26	--	--	--	--	--	--	--	--	--

TABLE 4.—CHEMICAL ANALYSES OF GROUND WATER, CLAY COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	SUSPENDED SOLIDS (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
361654090410501	74-06-27	--	3400	1000	--	--	174	194	.24
361805090363701	74-06-27	--	7400	2100	--	--	236	258	.32
361938090311601	67-08-08	--	5400	690	10	--	260	264	--
	74-06-27	--	3400	1200	--	--	293	311	.40
362011090253601	74-07-16	--	4400	560	--	--	380	398	.52
362441090383701	67-08-08	--	3500	750	20	--	406	404	--
	74-07-11	--	3000	1200	--	--	214	222	.29
362515090440901	74-06-26	--	3100	840	--	--	393	410	.53
362629090214401	74-06-26	--	3900	250	--	--	387	414	.53
362753090333501	74-06-26	10	--	--	--	3	198	--	.27

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)
361654090410501	74-06-27	--	--	--
361805090363701	74-06-27	--	--	--
361938090311601	67-08-08	.00	--	--
	74-06-27	--	--	--
362011090253601	74-07-16	3.7	.03	--
362441090383701	67-08-08	.00	--	--
	74-07-11	.04	.00	--
362515090440901	74-06-26	--	--	--
362629090214401	74-06-26	--	--	--
362753090333501	74-06-26	--	--	1.6

TABLE 5.—RECORDS OF TEST HOLES AND WELLS IN CRAIGHEAD COUNTY, ARK.

Type of site: T, test hole; W, well  
 Principal aquifer: 111ALVM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
13N01E05ACAI	354728091001401	Eads	W	111ALVM	237	---	I	16.0	850	7-30-73	1,715	7-30-73	L
13N01E05BBBI	3547450910005801	Eads	W	111ALVM	241	---	I	16.5	630	7-30-73	2,252	7-30-73	L
13N01E14RCCI	354528090574801		W	112TRRC	247	---	I	---	---	---	---	---	L
13N02E06BBBI	354738090553301		W	112TRRC	247	100	I	16.0	500	7-30-73	1,112	7-30-73	L
13N02E16AAAI	354550090524001		W	112TRRC	242	98	I	16.5	600	8-3-73	1,683	8-3-73	Q, L
13N02E3SDAAI	354246090503801	A. B. Clark	W	112TRRC	250	120	U	---	---	---	---	---	L
13N02E3SDACI	354236090504401	A. B. Clark	W	111ALVM	250	---	I	16.5	641	9-4-74	---	---	O
13N03E09BAAI	354638090464201		W	112TRRC	267	107	I	---	---	---	---	---	L
13N03E29AAAI	354402090471201		W	112TRRC	251	122	I	16.5	730	8-3-73	917	8-3-73	L
13N03E33ABBI	354307090463501		W	112TRRC	249	---	I	16.4	725	6-26-74	1,010	6-26-74	O
14N01E01BBBI	355256090563801	Church	W	112TRRC	254	33	U	---	---	---	---	---	L
14N01E21BBBI	355020090595901		W	112TRRC	257	110	I	17.0	460	8-3-73	1,588	8-3-73	L
14N02E15DDDI	355012090512501		W	112TRRC	255	---	I	---	---	---	---	---	L
14N02E18DDDI	355049090550601		W	112TRRC	242	120	I	15.5	471	8-21-74	837	8-21-74	Q, L
15N03E05BBBI	355801090475501	Buck Carney	W	112TRRC	257	---	I	16.5	520	8-1-73	1,078	8-1-73	L
15N03E18DDDI	355525090480201	Pearl M. Rice	W	112TRRC	260	---	I	17.0	306	7-21-65	800	7-21-65	L
15N03E19ADAI	355506090480201		W	112TRRC	262	116	I	16.0	248	6-25-74	1,000	6-25-74	Q, L
15N03E30BCBI	355417090490401		W	112TRRC	256	---	I	16.5	180	8-3-73	1,150	8-3-73	L
15N03E32BAAI	355334090473501		T	112TRRC	280	91	U	---	---	---	---	---	G

TABLE 6.—MEASUREMENTS OF WATER LEVELS IN WELLS, CRAIGHEAD COUNTY, ARK.

13N01E05ACA1 EADS. DRILLED IRRIGATION ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN.  
 LSD 37 FT ABOVE MSL. MP BASE OF PUMP, 1.0 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 237.00 FEET.

HIGHEST WATER LEVEL 15.45 BELOW LSD, SEP. 27, 1973,  
 LOWEST WATER LEVEL 15.45 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973, 19  
 JULY 30, 1973 50.62A, SEP. 27, 1973 15.45.

A--PUMPING WATER LEVEL

13N01E0588B1. EADS. DRILLED IRRIGATION ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 14 IN.  
 LSD 241 FT ABOVE MSL. MP HOLE IN PUMP SOUTHEAST SIDE, 2.0 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 241.00 FEET.

HIGHEST WATER LEVEL 11.97 BELOW LSD, APR. 26, 1973,  
 LOWEST WATER LEVEL 15.66 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1973	11.97	MAR. 8, 1974	12.17	MAY 1, 1974	13.07	OCT. 1, 1975	15.66
NOV. 1	13.29	APR. 3	13.40	MAR. 25, 1975	13.58	MAR. 16, 1976	14.28

13N01E14BCC1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 24 IN.  
 LSD 247 FT ABOVE MSL. MP TOP OF PIT CASING EAST SIDE, 0.5 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 247.00 FEET.

HIGHEST WATER LEVEL 33.29 BELOW LSD, MAY 1, 1974,  
 LOWEST WATER LEVEL 38.05 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1973	33.54	MAR. 8, 1974	33.80	MAY 1, 1974	33.29	OCT. 1, 1975	38.05
OCT. 1	36.32	APR. 3	33.40	MAR. 25, 1975	34.88	MAR. 16, 1976	35.97
NOV. 6	37.44						

13N02E0688B1 DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN.  
 LSD 247 FT ABOVE MSL. MP TOP OF PIT CASING, 0.8 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 247.00 FEET.

HIGHEST WATER LEVEL 37.95 BELOW LSD, MAY 1, 1974,  
 LOWEST WATER LEVEL 40.70 BELOW LSD, APR. 3, 1974.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1973	38.78	NOV. 6, 1973	39.35	MAY 1, 1974	37.95	OCT. 1, 1975	40.65
APR. 30	56.42A	MAR. 8, 1974	38.57	MAR. 25, 1975	39.84	MAR. 16, 1976	39.09
OCT. 1	39.85	APR. 3	40.70				

A- PUMPING WATER LEVEL

TABLE 6.—MEASUREMENTS OF WATER LEVELS IN WELLS, CRAIGHEAD COUNTY, ARK.—CONTINUED

13N02E16AAA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN. LSD 242 FT ABOVE MSL. MP TOP OF PIT CASING S. SIDE 0.6 FT ABOVE LSD, ALTITUDE OF LAND SURFACE 242.00 FEET.

HIGHEST WATER LEVEL 49.26 BELOW LSD, MAR. 8, 1974,  
 LOWEST WATER LEVEL 52.64 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 3, 1973	71.42A	MAR. 8, 1974	49.26	MAY 1, 1974	50.71	OCT. 1, 1975	52.64
OCT. 1	51.47	APR. 3	50.50	MAR. 25, 1975	51.14	MAR. 17, 1976	51.75
NOV. 6	50.41						

A--PUMPING WATER LEVEL

13N02E35DAA1. A. B. CLARK. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 120 FT. LSD 250 FT ABOVE MSL. MP TOP OF CASING WEST SIDED, 0.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 250.00 FEET.

HIGHEST WATER LEVEL 50.20 BELOW LSD, JUNE 19, 1957,  
 LOWEST WATER LEVEL 67.39 BELOW LSD, SEP. 25, 1975.  
 RECORDS AVAILABLE 1957-76.

1957

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51.35
15	.....	50.75	.....	50.60	50.39	.....	.....	.....	.....	51.72	.....	.....
20	50.81	.....	.....	.....	.....	50.20	51.13	.....	51.94	.....	51.72	.....
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EOM	.....	.....	50.48	.....	.....	.....	.....	51.75	.....	.....	.....	.....

1958

5	.....	.....	.....	.....	.....	.....	.....	51.70	.....	52.10	52.05	52.10
10	.....	.....	.....	.....	.....	.....	.....	51.70	.....	52.15	52.15	52.00
15	.....	51.49	51.45	51.23	51.03	51.32	.....	51.75	.....	52.05	52.00	51.95
20	.....	.....	.....	.....	.....	51.42	51.45	51.75	52.25	52.05	52.10	52.15
25	.....	.....	.....	.....	.....	51.55	51.60	51.80	52.15	52.10	51.95	52.05
EOM	51.19	.....	.....	.....	.....	.....	51.65	52.30	52.10	52.05	52.10	51.80

1959

5	52.05	51.85	51.30	51.80	51.75	52.30	52.40	52.90	53.00	52.95	52.95	52.85
10	51.95	51.40	51.70	51.90	51.75	52.85	52.35	52.85	53.00	52.90	52.85	52.75
15	51.65	52.05	51.65	51.75	52.45	52.40	52.85	52.85	52.95	52.90	52.80	52.85
20	51.50	52.20	51.75	51.80	52.40	52.75	53.15	53.05	.....	52.90	52.80	52.90
25	51.80	51.85	51.65	51.75	52.40	52.45	53.05	53.10	52.90	52.90	52.80	52.85
EOM	52.20	51.75	51.70	51.75	52.45	52.40	53.20	53.05	52.95	52.90	52.80	52.95

1960

5	52.95	52.35	53.00	52.75	52.50	53.50	53.30	53.90	53.65	53.60	53.50	53.45
10	52.85	51.85	51.95	52.65	52.60	52.15	53.75	53.85	53.65	53.60	53.55	53.15
15	52.80	52.80	52.05	52.60	52.60	52.05	53.25	53.65	53.65	53.60	53.45	53.30
20	53.15	52.75	52.85	52.50	53.10	51.95	53.20	53.90	53.65	53.60	53.50	53.25
25	52.75	52.30	52.65	52.60	52.80	53.00	53.40	53.65	53.65	53.55	53.45	53.30
EOM	52.70	53.00	52.55	52.60	53.15	53.00	53.90	53.60	53.65	53.55	53.55	53.20

1961

5	53.3	53.4	53.1	53.1	53.0	53.2	.....	53.8	54.0	54.2	54.2	54.1
10	53.3	53.2	53.3	53.3	53.3	53.3	53.6	53.8	54.0	54.2	54.1	54.1
15	53.2	53.3	52.9	52.9	53.1	53.4	53.6	53.9	54.1	54.1	54.1	54.1
20	53.2	53.2	53.1	53.3	53.1	53.4	53.7	53.9	55.41	54.2	54.2	54.3
25	53.3	53.2	53.2	53.0	53.1	.....	53.7	53.9	54.1	54.2	54.2	54.1
EOM	53.3	53.2	52.8	53.1	53.2	.....	53.7	54.0	54.1	54.1	54.1	54.1

1962

5	53.8	53.8	54.0	53.9	53.8	54.9	54.4	55.1	55.2	55.1	55.1	55.0
10	54.5	54.2	53.7	53.7	53.8	55.0	54.4	54.9	55.2	55.1	55.0	54.9
15	54.0	53.8	54.0	54.0	53.8	54.7	54.8	55.5	55.1	55.1	54.9	54.9
20	54.1	53.8	53.3	53.8	53.8	54.6	55.2	55.5	55.2	55.0	54.9	54.9
25	53.7	53.8	53.6	53.8	54.3	54.5	55.3	55.5	55.1	55.1	55.0	54.9
EOM	53.8	54.2	53.8	53.8	54.7	54.5	54.9	55.2	55.1	55.0	55.0	54.9

TABLE 6.—MEASUREMENTS OF WATER LEVELS IN WELLS, CRAIGHEAD COUNTY, ARK.—CONTINUED

13N02E35DAA1—CONTINUED

1963															
5	54.9	54.8	54.6	54.7	54.7	.....	.....	55.6	56.1	56.2	56.1	56.2			
10	54.8	54.8	54.5	54.7	54.7	.....	.....	56.1	56.1	56.2	56.2	56.1			
15	55.0	55.0	54.6	54.7	54.7	.....	.....	56.2	56.1	56.2	56.1	56.2			
20	54.9	54.7	54.9	54.7	55.0	.....	.....	56.4	56.1	56.2	56.1	56.1			
25	54.7	54.8	54.6	54.7	55.3	.....	.....	56.6	56.1	56.2	56.1	56.1			
EOM	54.8	54.7	54.7	54.8	55.4	.....	55.7	56.2	56.2	56.1	56.1	56.1			
1964															
5	56.1	55.9	56.2	55.8	55.9	57.0	.....	57.7	57.4	57.4	57.3	57.6			
10	56.1	56.0	56.2	56.0	55.8	56.5	.....	57.7	57.4	57.4	57.2	57.0			
15	56.1	55.9	56.1	55.9	55.9	56.4	.....	57.6	57.4	57.3	57.3	57.0			
20	56.2	56.1	56.0	55.9	56.6	56.4	.....	57.4	57.4	57.3	57.3	57.2			
25	56.1	56.0	55.7	55.9	56.8	57.1	56.9	57.4	57.4	57.3	57.1	57.1			
EOM	56.1	56.0	55.9	55.9	56.6	57.2	57.4	57.5	57.4	57.3	57.2	57.2			
1965															
5	57.1	57.0	56.7	56.8	56.9	57.1	57.3	57.7	58.0	58.0	58.0	.....			
10	57.4	57.0	57.2	56.6	56.9	57.1	57.4	57.7	57.9	58.1	58.0	.....			
15	56.9	57.3	57.1	56.7	56.9	57.2	57.4	57.8	58.1	58.0	57.9	.....			
20	57.0	56.8	57.3	57.0	56.9	57.2	57.4	57.8	58.0	58.1	57.9	57.9			
25	56.6	57.2	56.8	56.9	56.9	57.3	57.7	57.9	58.0	58.0	58.0	58.0			
EOM	56.9	56.8	57.0	56.9	57.0	57.3	57.6	57.9	58.0	58.0	.....	57.9			
1966															
5	57.7	57.8	57.7	57.8	57.7	58.4	58.3	.....	.....	58.8	58.7	58.7			
10	57.9	57.6	57.8	57.7	57.6	58.9	58.3	.....	.....	58.8	58.7	58.8			
15	57.7	57.8	57.8	57.7	57.6	59.0	.....	.....	.....	58.9	58.6	58.7			
20	57.9	58.2	57.7	57.6	57.6	58.5	.....	.....	.....	58.7	58.7	58.7			
25	57.9	57.5	57.7	57.6	57.7	58.4	.....	.....	58.8	58.7	58.7	58.7			
EOM	57.6	57.3	57.7	57.7	57.7	58.3	.....	.....	58.8	58.6	58.8	58.5			
1967															
5	58.5	58.2	58.4	58.4	59.0	58.8	.....	59.7	59.9	59.5	59.5	59.6			
10	58.7	58.3	58.6	58.5	59.4	58.7	.....	60.1	59.9	59.5	59.3	59.4			
15	58.6	58.4	58.7	58.4	59.5	58.7	.....	60.4	59.6	59.4	59.4	59.8			
20	58.5	58.5	58.3	58.3	60.0	.....	.....	59.8	59.6	59.4	59.3	59.4			
25	58.5	58.5	58.4	58.2	59.1	.....	.....	59.6	59.5	59.4	60.2	59.3			
EOM	58.6	58.6	58.6	58.2	58.9	.....	.....	59.6	59.5	59.4	59.8	59.3			
1968															
5	59.4	59.4	58.9	59.5	59.1	59.2	.....	.....	.....	60.1	60.1	60.1			
10	59.3	59.0	59.1	59.2	58.9	59.3	.....	60.0	E	.....	60.2	60.1			
15	59.2	59.2	59.5	59.1	58.6	59.3	E	.....	.....	60.2	60.0	60.1			
20	59.3	58.9	59.1	58.9	59.1	.....	.....	60.1	.....	60.2	E	60.2			
25	59.1	59.3	59.2	59.0	58.9	.....	.....	60.1	60.3	60.2	60.1	60.0			
EOM	59.2	59.2	59.0	59.0	59.1	.....	.....	60.1	60.2	60.2	60.0	.....			
1969															
5	.....	59.7	59.8	59.8	59.9	60.8	61.9	61.9	61.9	61.8	61.6	61.5			
10	60.2	60.0	60.2	59.9	59.8	60.7	61.4	62.3	61.9	61.7	61.6	.....			
15	60.0	59.8	60.1	59.9	60.0	60.7	61.5	62.7	61.8	61.7	61.6	61.6			
20	59.9	60.1	59.9	60.1	60.1	61.5	61.4	62.2	61.8	61.7	61.6	61.4			
25	60.4	60.0	60.2	59.9	60.9	61.7	62.2	62.0	61.8	61.7	61.6	61.5			
EOM	60.0	59.8	60.0	59.9	61.2	61.2	61.9	61.9	61.8	61.7	61.5	61.6			
1970															
5	61.5	61.5	61.2	61.2	61.2	61.8	63.1	62.8	62.4	62.3	E	62.2	E	62.1	E
10	61.2	61.1	61.0	61.1	61.1	61.6	62.5	62.5	62.4	62.2	E	62.2	E	61.9	
15	61.3	61.2	61.5	61.2	61.2	61.5	62.2	63.0	62.4	E	62.2	E	62.1	E	61.5
20	61.4	61.8	61.3	61.0	62.2	62.4	63.1	62.5	62.4	E	62.2	E	62.1	E	61.9
25	61.0	61.0	60.7	61.1	62.5	62.7	63.3	62.9	62.3	E	62.2	E	62.1	E	61.8
EOM	61.4	61.3	61.2	61.1	62.0	63.0	62.7	62.4	62.3	E	62.2	E	62.1	E	61.8
1971															
5	62.3	61.7	61.6	61.9	61.6	62.0	62.3	62.8	.....	.....	63.0	62.9			
10	61.9	61.9	61.6	61.9	61.7	62.1	62.4	62.7	.....	.....	63.0	62.6			
15	62.2	61.8	61.6	61.6	61.7	62.1	62.4	62.8	.....	.....	63.0	62.8			
20	61.9	61.7	61.9	61.7	61.9	62.2	62.6	62.8	.....	.....	62.9	62.8			
25	61.6	61.6	61.8	61.8	62.0	62.3	62.8	62.9	.....	63.1	63.0	62.8			
EOM	61.9	61.9	61.6	61.8	62.0	62.3	62.8	.....	.....	63.1	63.1	62.9			

E--ESTIMATED.

TABLE 6.—MEASUREMENTS OF WATER LEVELS IN WELLS, CRAIGHEAD COUNTY, ARK.—CONTINUED

13N02E35DAA1—CONTINUED

1972												
5	63.0	62.5	63.1	62.6	62.6	63.7	64.5	64.4	64.0	63.8	63.6	63.2
10	62.6	62.8	62.7	62.6	62.6	63.3	64.4	64.1	63.9	63.8	63.3	63.7
15	63.1	62.5	62.4	62.5	62.6	63.2	63.8	64.6	63.8	63.7	63.6	63.5
20	62.8	62.8	62.6	62.5	62.6	63.5	64.0	64.3	63.8	63.7	63.8	62.9
25	63.2	62.5	62.6	62.7	63.5	64.1	64.4	64.6	63.8	63.6	63.0	63.4
EOM	62.7	62.6	62.6	62.5	63.9	64.3	64.1	64.2	63.8	63.6	63.5	63.5
1973												
5	63.5	63.3	63.0	63.4	63.1	64.0	64.1	64.6	65.0	64.8	64.6	64.3
10	63.5	63.6	62.7	63.4	62.9	64.2	64.4	65.1	64.9	64.7	64.5	64.5
15	63.4	63.3	63.0	63.0	63.1	63.6	64.4	64.7	64.9	64.6	64.4	64.5
20	62.8	63.4	62.9	63.1	63.0	63.6	64.8	65.3	64.8	64.6	64.3	64.4
25	63.3	63.3	62.6	62.8	63.5	63.4	64.9	64.9	64.8	64.6	64.2	64.2
EOM	63.0	63.2	62.8	63.1	63.7	63.5	64.7	65.2	64.8	64.4	64.8	64.3
1974												
5	64.3	64.1	64.1	64.2	63.9	65.0	65.6	66.3	66.5	66.0	65.8	65.5
10	64.2	64.2	64.2	63.9	63.8	64.8	65.8	66.9	66.4	66.0	65.6	65.4
15	64.2	64.1	63.9	64.0	63.9	64.4	66.0	67.1	66.3	65.9	65.7	65.3
20	63.8	64.2	63.8	63.9	63.9	64.5	66.2	66.6	66.2	65.9	65.7	65.4
25	64.2	64.7	64.1	64.0	64.5	64.6	66.4	67.0	66.1	65.9	65.7	65.7
EOM	64.1	64.1	63.7	63.9	65.0	65.1	66.1	66.7	66.1	65.8	65.5	65.3
1975												
5	65.3	.....	.....	65.3	64.9	.....	.....	.....	.....	.....	.....	.....
10	.....	.....	65.1	65.0	65.5	.....	.....	.....	.....	.....	.....	.....
15	.....	.....	65.3	65.1	65.9	.....	.....	.....	.....	.....	.....	.....
20	.....	.....	65.0	65.3	66.2	.....	.....	.....	.....	.....	.....	.....
25	.....	.....	65.1	64.9	66.4	.....	.....	.....	67.39	.....	.....	.....
EOM	.....	.....	65.1	64.9	66.6	.....	.....	.....	.....	.....	.....	.....
1976												
5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	.....	.....	67.13	.....	.....	.....	.....	.....	.....	.....	.....	.....
15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
EOM	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

13N03E09BAA1 DRILLED IRRIGATION WATER-TABLE WELL IN ALLOUVIUM OF QUATERNARY AGE, DIAM 12 IN.  
 LSD 267 FT ABOVE MSL. MP ONE-INCH PLUG IN PUMP BASE SOUTHEAST CORNER, 1.5 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 267.00 FEET.

HIGHEST WATER LEVEL 65.58 BELOW LSD, MAR. 30, 1970,  
 LOWEST WATER LEVEL 70.42 BELOW LSD, OCT. 1, 1973.  
 RECORDS AVAILABLE 1969-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 11, 1969	66.43	OCT. 27, 1972	68.40	NOV. 6, 1973	68.35	MAR. 25, 1975	69.45
MAR. 30, 1970	65.58	APR. 5, 1973	68.44	MAR. 8, 1974	68.14	OCT. 1	69.84
MAR. 29, 1971	66.65	MAY 2	68.16	APR. 3	67.33	MAR. 17, 1976	69.10
APR. 3, 1972	66.68	OCT. 1	70.42	MAY 1	68.07		

TABLE 6.—MEASUREMENTS OF WATER LEVELS IN WELLS, CRAIGHEAD COUNTY, ARK.—CONTINUED

13N03E29AAA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 122 FT. LSD HOLE IN BASE OF PUMP ON WEST SIDE AT LSD.  
ALTITUDE OF LAND SURFACE 251.00 FEET.

HIGHEST WATER LEVEL 62.07 BELOW LSD, APR. 3, 1974,  
LOWEST WATER LEVEL 65.89 BELOW LSD, SEP. 25, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 3, 1973	78.59A	MAR. 5, 1974	62.74	APR. 30, 1974	62.56	SEP. 25, 1975	65.89
OCT. 4	63.56	APR. 3	62.07	APR. 2, 1975	63.51	MAR. 11, 1976	65.06
NOV. 2	63.38						

A--PUMPING WATER LEVEL.

14N1E0188B1. CHURCH. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATER. AGE DIAM 1.25 IN, DEPTH 33 FT. LSD 254 FT ABOVE MSL. MP TOP OF PITCHER, 2.5 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 254.00 FEET.

HIGHEST WATER LEVEL 18.97 BELOW LSD, MAY 1, 1974,  
LOWEST WATER LEVEL 20.86 BELOW LSD, OCT. 1, 1975.  
RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1973	19.79	NOV. 1, 1973	20.07	APR. 3, 1974	19.05	MAR. 25, 1975	20.39
SEP. 27	19.90	MAR. 8, 1974	19.17	MAY 1	18.97	OCT. 1	20.86

14N01E2188B1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 257 FT ABOVE MSL. MP TOP OF CASING NORTH SIDE, AT LSD.  
ALTITUDE OF LAND SURFACE 257.00 FEET.

HIGHEST WATER LEVEL 24.05 BELOW LSD, APR. 3, 1974,  
LOWEST WATER LEVEL 26.57 BELOW LSD, OCT. 1, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 3, 1973	66.57A	MAR. 8, 1974	24.43	MAY 1, 1974	24.10	OCT. 1, 1975	26.57
SEP. 27	25.65	APR. 3	24.05	MAR. 25, 1975	24.73	MAR. 16, 1976	25.90
NOV. 1	25.13						

A--PUMPING WATER LEVEL.

14N02E150DD1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 18 IN. LSD 255 FT ABOVE MSL. MP TOP EDGE OF DISCHARGE PIPE, 6.0 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 255.00 FEET.

HIGHEST WATER LEVEL 33.82 BELOW LSD, APR. 23, 1953,  
LOWEST WATER LEVEL 48.42 BELOW LSD, NOV. 10, 1966.  
RECORDS AVAILABLE 1953-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 23, 1953	33.82	APR. 20, 1961	38.24	APR. 10, 1968	42.07	OCT. 1, 1973	45.76
APR. 21, 1954	35.18	APR. 18, 1962	38.54	MAR. 25, 1969	42.91	NOV. 6	44.48
APR. 28, 1955	36.70	APR. 17, 1963	38.96	MAR. 27, 1970	45.40	MAR. 8, 1974	43.46
APR. 18, 1956	37.54	APR. 15, 1964	40.47	MAR. 26, 1971	45.90	APR. 3	43.00
APR. 16, 1957	38.19	APR. 13, 1965	41.21	MAR. 30, 1972	43.38	MAY 1	42.90
APR. 16, 1958	37.72	MAR. 16, 1966	41.74	OCT. 27	45.18	MAR. 25, 1975	43.40
APR. 20, 1959	37.54	NOV. 10	48.42	APR. 5, 1973	43.34	OCT. 1	44.86
APR. 4, 1960	39.76	APR. 12, 1967	41.85	MAY 2	43.18	MAR. 17, 1976	43.57



TABLE 6.—MEASUREMENTS OF WATER LEVELS IN WELLS, CRAIGHEAD COUNTY, ARK.—CONTINUED

14N02E18BDD1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 242 FT ABOVE MSL. MP HOLE IN PUMP BASE NORTHWEST SIDE, 1.5 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 242.00 FEET.

HIGHEST WATER LEVEL 20.23 BELOW LSD, APR. 3, 1974,  
 LOWEST WATER LEVEL 23.35 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1973	20.48	MAR. 8, 1974	20.44	MAY 1, 1974	21.20	OCT. 1, 1975	23.35
OCT. 1	21.84	APR. 3	20.23	MAR. 25, 1975	21.95	MAR. 16, 1976	22.60
NOV. 6	21.56						

15N03E05BBB1 BUCK CARNEY. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 257 FT ABOVE MSL. MP TOP OF PIT CASING, AT LSD. ALTITUDE OF LAND SURFACE 257.00 FEET.

HIGHEST WATER LEVEL 5.48 BELOW LSD, MAR. 26, 1975,  
 LOWEST WATER LEVEL 8.66 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 1, 1973	23.60A	MAR. 7, 1974	5.90	MAY 1, 1974	5.89	OCT. 1, 1975	8.66
OCT. 1	8.02	APR. 3	6.06	MAR. 26, 1975	5.48	MAR. 17, 1976	6.62
NOV. 6	8.45						

A--PUMPING WATER LEVEL.

15N03E18DDD1. PEARL MAY RICE. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 260 FT ABOVE MSL. MP UPPER EDGE OF DISCHARGE PIPE, 11 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 260.00 FEET.

HIGHEST WATER LEVEL 14.78 BELOW LSD, APR. 18, 1962,  
 LOWEST WATER LEVEL 19.86 BELOW LSD, OCT. 27, 1972.  
 RECORDS AVAILABLE 1953-73, 19 .

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 23, 1953	15.47	APR. 5, 1960	16.62	MAR. 17, 1966	17.74	MAR. 26, 1971	17.65
APR. 21, 1954	17.64	APR. 20, 1961	15.05	NOV. 14	18.01	APR. 6, 1972	18.29
APR. 28, 1955	18.95	APR. 18, 1962	14.78	APR. 12, 1967	17.51	OCT. 27	19.86
APR. 18, 1956	18.88	APR. 17, 1963	18.53	APR. 10, 1968	17.70	APR. 5, 1973	17.92
APR. 16, 1957	18.44	APR. 15, 1964	18.35	MAR. 25, 1969	17.98	MAY 2	16.90
APR. 16, 1958	15.81	APR. 14, 1965	17.85	MAR. 27, 1970	18.53	OCT. 2	18.80
APR. 21, 1959	15.38						

15N03E19ADA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 116 FT. LSD 262 FT ABOVE MSL. MP TOP OF PIT CASING SOUTH SIDE, 0.5 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 262.00 FEET.

HIGHEST WATER LEVEL 18.25 BELOW LSD, APR. 3, 1974,  
 LOWEST WATER LEVEL 23.05 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 5, 1973	19.94	NOV. 6, 1973	20.54	MAY 1, 1974	18.39	OCT. 1, 1975	23.05
MAY 2	18.89	MAR. 7, 1974	18.87	MAR. 26, 1975	19.92	MAR. 17, 1976	21.75
OCT. 1	20.80	APR. 3	18.25				

TABLE 6.—MEASUREMENTS OF WATER LEVELS IN WELLS, CRAIGHEAD COUNTY, ARK.—CONTINUED

15N03E30BCB1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN.  
LSD 256 FT ABOVE MSL. MP TOP OF PIT CASING EAST SIDE, 0.5 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 256.00 FEET.

HIGHEST WATER LEVEL 14.73 BELOW LSD, OCT. 1, 1973.  
LOWEST WATER LEVEL 14.73 BELOW LSD, OCT. 1, 1973.  
RECORDS AVAILABLE 1973, 19 .  
AUG. 3, 1973 31.35A, OCT. 1, 1973 14.73.

A--PUMPING WATER LEVEL.

TABLE 7.-LOG OF TEST HOLES AND WELLS  
CRAIGHEAD COUNTY, ARKANSAS

355334090473501. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 22, 1975  
LAND SURFACE ALTITUDE 280 FT.

LOCATION: 15N03E32BAA1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, MOTTLED YELLOW AND GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	7.0	8.0
CLAY, SILTY, YELLOWISH-GRAY -----	20.0	28.0
SILT, CLAYEY TO SANDY, YELLOWISH-GRAY -----	22.0	50.0
SAND, VERY FINE TO MEDIUM, SILTY, POORLY SORTED -----	10.0	60.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL-----	17.0	77.0
TERTIARY DEPOSITS:		
CLAY AND SILT, INTERBEDDED, GREENISH-GRAY; CONTAINS CARBONACEOUS LAMINAE -----	14.0	91.0

TABLE 8.—CHEMICAL ANALYSES OF GROUND WATER, CRAIGHEAD COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEOLOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	SAMPLE NUMBER	TEMPERATURE (DEG C)	FLOW RATE (GPM)
354236090504401	031	13N02E35DAC1	GW	111ALVM	69-06-19	--	--	18.0	--
354307090463501	031	13N03E33ABB1	GW	111ALVM	74-09-04	--	750650	16.5	--
354550090524001	031	13N02E16AAA1	GW	112TRRC	74-06-26	--	--	16.4	1010
	031		GW	112TRRC	73-08-03	--	--	16.5	1685
	031		GW	112TRRC	74-08-21	112	--	16.0	1725
355049090550601	031	14N02E18BDD1	GW	112TRRC	74-08-21	120	--	15.5	837
355506090480201	031	15N03E19ADA1	GW	112TRRC	74-06-25	--	--	--	--

STATION NUMBER	DATE OF SAMPLE	COLOR (PLATINUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL NITROGEN (N) (MG/L)
354236090504401	69-06-19	5	597	8.4	2.3	290	342	6	--	--	--
354307090463501	74-09-04	--	641	7.5	19	304	371	0	400	5	1.3
354550090524001	74-06-26	2	725	7.3	32	326	397	0	--	--	--
	73-08-03	--	600	--	--	--	--	--	--	--	--
	74-08-21	7	603	7.0	45	260	317	0	--	--	--
355049090550601	74-08-21	40	471	7.1	34	217	264	0	--	--	--
355506090480201	74-06-25	--	--	--	19	122	--	--	--	--	--

TABLE 8.—CHEMICAL ANALYSES OF GROUND WATER, CRAIGHEAD COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)
354236090504401	69-06-19	--	.00	--	--	--	--	--	259	0	74	18
	74-09-04	.01	.37	.90	.38	.33	.48	0	290	0	85	18
354307090463501	74-06-26	--	--	--	--	.00	.06	55	380	55	98	33
354550090524001	73-08-03	--	--	--	--	--	--	--	--	--	--	--
	74-08-21	--	--	--	--	.43	.40	10	270	10	80	17
355049090550601	74-08-21	--	--	--	--	.19	.34	0	220	0	62	15
355506090480201	74-06-25	--	--	--	--	--	.10	0	99	0	--	--

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
354236090504401	69-06-19	34	.9	22	2.2	13	28	.4	32	--	60
	74-09-04	33	.8	20	2.1	13	31	.2	35	2	--
354307090463501	74-06-26	10	.2	5	1.0	10	62	.1	31	--	--
354550090524001	73-08-03	--	--	--	--	--	--	--	--	--	--
	74-08-21	26	.7	17	2.6	8.4	53	.2	35	--	--
355049090550601	74-08-21	15	.4	13	1.7	6.4	31	.1	34	--	--
355506090480201	74-06-25	--	.6	22	--	--	--	--	--	--	--

TABLE 8.—CHEMICAL ANALYSES OF GROUND WATER, CRAIGHEAD COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COBALT (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
354236090504401	69-06-19	0	0	10	0	--	20	280	10	340	10
	74-09-04	0	0	4	4	3000	0	360	--	--	20
354307090463501	74-06-26	--	--	--	--	2300	--	480	--	--	--
354550090524001	73-08-03	--	--	--	--	--	--	--	--	--	--
	74-08-21	--	--	--	--	7000	--	420	--	--	--
355049090550601	74-08-21	--	--	--	--	9700	--	690	--	--	--
355506090480201	74-06-25	--	--	--	--	--	--	--	--	--	--

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	TRITIUM IN WATER MOLE-CULES (UNITS)	TRITIUM IN WATER MOLE-CULES (COUNT ERROR)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	TOTAL ALDRIN (UG/L)	TOTAL LINDANE (UG/L)	TOTAL DDD (UG/L)
354236090504401	69-06-19	20	--	--	--	2.3	.6	.29	.00	.00	.00
	74-09-04	--	0	4.3	<.4	--	--	.17	--	--	--
354307090463501	74-06-26	--	--	--	--	--	--	--	--	--	--
354550090524001	73-08-03	--	--	--	--	--	--	--	--	--	--
	74-08-21	--	--	--	--	--	--	--	--	--	--
355049090550601	74-08-21	--	--	--	--	--	--	--	--	--	--
355506090480201	74-06-25	--	--	--	--	--	--	--	--	--	--

TABLE 8.—CHEMICAL ANALYSES OF GROUND WATER, CRAIGHEAD COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	TOTAL DDE (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180. C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
354236090504401	69-06-19	.00	.00	.00	.00	.00	.00	.00	.00	373	376
	74-09-04	--	--	--	--	--	--	--	--	395	405
354307090463501	74-06-26	--	--	--	--	--	--	--	--	423	444
354550090524001	73-08-03	--	--	--	--	--	--	--	--	--	--
	74-08-21	--	--	--	--	--	--	--	--	367	388
355049090550601	74-08-21	--	--	--	--	--	--	--	--	285	307
355506090480201	74-06-25	--	--	--	--	--	--	--	--	--	180

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRO-GEN (NO3) (MG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
354236090504401	69-06-19	--	--	--	.05	<.4	--	.4	--
	74-09-04	.54	5.7	.0	.04	<.4	<.4	3.5	<.4
354307090463501	74-06-26	.58	--	--	--	--	--	--	--
354550090524001	73-08-03	--	--	--	--	--	--	--	--
	74-08-21	.50	--	--	--	--	--	--	--
355049090550601	74-08-21	.39	--	--	--	--	--	--	--
355506090480201	74-06-25	.22	--	--	--	--	--	--	--

TABLE 9.—RECORDS OF TEST HOLES AND WELLS IN CROSS COUNTY, ARK.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
06N02E07BBD1	350949090555301	-----	W	112TRRC	215	---	I	17.0	850	7-24-73	1,523	7-24-73	L
06N03E04BAAL	351040090470301	-----	W	112TRRC	254	---	I	16.0	513	8-22-74	---	---	Q
06N03E05CDD1	350953090481201	-----	W	112TRRC	246	140	I	17.0	390	7-24-73	607	7-24-73	L
07N01E05CDAL	351520091005201	-----	W	112TRRC	217	140	I	16.5	---	6-25-74	890	7-23-73	Q, L
07N01E10BBB1	351504090583401	-----	T	112TRRC	219	186	U	---	---	---	---	---	L, G
07N01E33BBAL	351136091001001	-----	W	112TRRC	218	145	I	17.0	690	7-23-73	1,180	7-23-73	L
07N02E04CDD1	351606090532401	-----	T	111ALVM	219	196	U	---	---	---	---	---	L, G
07N02E09BBB1	351504090535401	W. M. Bostic	W	111ALVM	217	150	I	16.6	---	6-25-74	---	---	L
07N03E05ADAL	351541090473801	E. Brown	W	112TRRC	254	160	I	---	---	---	---	---	L
07N03E07AAB1	351513090475801	-----	T	112TRRC	236	176	U	---	---	---	---	---	L
07N03E09AAD1	351502090463001	-----	T	112TRRC	275	191	U	---	---	---	---	---	G
08N01E26CBB1	351708090580401	John H. Hill	W	112TRRC	221	100	I	16.5	---	6-25-73	---	---	L
08N02E29CBAL	351715090543801	-----	W	112TRRC	225	---	I	---	---	---	---	---	L
08N03E09DAD1	352002090462501	H. O. Jernberg	W	112TRRC	258	150	I	---	694	6-25-74	980	6-25-74	L
08N03E32DDAL	351617090473401	-----	W	112TRRC	253	140	I	17.0	770	7-24-73	792	7-24-73	L
09N01E33BBAL	352204091000201	H. H. Holliman	W	112TRRC	226	---	I	17.0	630	7-25-73	945	7-25-73	Q, L
09N01E36BAB1	352159090563501	Randy Boeckman	W	112TRRC	226	---	I	16.9	---	6-25-74	986	6-25-74	L
09N02E30ADD1	352243090545201	-----	W	112TRRC	226	---	I	16.7	---	6-25-74	600	6-25-74	Q, L
09N03E17DDC1	352411090473101	Zelma Beasley	W	112TRRC	248	---	I	17.2	---	7-22-65	---	---	L
09N03E28DDAL	352229090461901	-----	W	112TRRC	252	---	I	16.8	646	6-25-74	1,030	6-25-74	Q

Type of site: T, test hole; W, well.  
 Principal aquifer: 111ALVM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Remarks: G, lithologic log included in report, see table 11; L, water-level measurements included in report, see table 10; Q, chemical analyses of water included in report, see table 12.



TABLE 10.—MEASUREMENTS OF WATER LEVELS IN WELLS, CROSS COUNTY, ARK.

06N02E07BBD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 215 FT ABOVE MSL. MP HOLE IN PUMP BASE, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 215.00 FEET.

HIGHEST WATER LEVEL 40.66 BELOW LSD, MAR. 4, 1974,  
 LOWEST WATER LEVEL 41.38 BELOW LSD, SEP. 28, 1973.  
 RECORDS AVAILABLE 1973-74.  
 JULY 24, 1973 56.84A, SEP. 28, 1973 41.38, OCT. 30, 1973 41.17, MAR. 4, 1974 40.66,  
 APR. 2, 1974 40.69.

A--PUMPING WATER LEVEL.

06N03E05CDD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. LSD 246 FT ABOVE MSL. MP TOP OF CASING ON NORTH SIDE, 0.50 FT ABOVE MSL. ALTITUDE OF LAND SURFACE 246.00 FEET.

HIGHEST WATER LEVEL 65.18 BELOW LSD, FEB. 1, 1973,  
 LOWEST WATER LEVEL 67.04 BELOW LSD, SEP. 24, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 1, 1973	65.18	SEP. 28, 1973	66.28	MAR. 4, 1974	65.44	APR. 1, 1975	65.99
MAR. 30	65.66	OCT. 30	66.06	APR. 2	65.60	SEP. 24	67.04
MAY 2	65.55	DEC. 7	66.55	APR. 29	65.64	APR. 7, 1976	66.29
JULY 24	82.90A						

A--PUMPING WATER LEVEL.

07N01E05CDA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 140 FT. LSD 217 FT ABOVE MSL. MP TOP OF PIT CASING ON SOUTH SIDE, 0.50 FT ABOVE MSL. ALTITUDE OF LAND SURFACE 217.00 FEET.

HIGHEST WATER LEVEL 24.85 BELOW LSD, APR. 26, 1946,  
 LOWEST WATER LEVEL 46.56 BELOW LSD, SEP. 24, 1975.  
 RECORDS AVAILABLE 1946, 1948-51, 1953-57, 1961-63, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1946	24.85	APR. 17, 1956	31.51	APR. 18, 1968	38.53	OCT. 3, 1973	44.38
MAY 3, 1948	25.46	APR. 15, 1957	32.47	MAR. 20, 1969	39.71	NOV. 1	44.17
MAY 4, 1949	26.54	APR. 18, 1961	34.21	MAR. 20, 1970	41.00	MAR. 4, 1974	43.33
MAY 1, 1950	26.62	APR. 17, 1962	34.57	MAR. 22, 1971	41.28	APR. 4	43.76
APR. 23, 1951	27.63	APR. 16, 1963	35.24	MAR. 24, 1972	43.22	JUNE 25	55.00A
APR. 22, 1953	27.59	APR. 13, 1965	36.96	OCT. 13	43.69	APR. 11, 1975	44.28
SEP. 16	29.34	MAR. 16, 1966	37.50	MAR. 30, 1973	42.73	SEP. 24	46.56
APR. 20, 1954	28.74	APR. 11, 1967	37.34	APR. 30	42.60	APR. 7, 1976	45.21
APR. 27, 1955	30.64						

A--PUMPING WATER LEVEL.

07N01E33BBA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, LSD 218 FT ABOVE MSL. MP TOP OF CASING ON SOUTH SIDE, 0.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 218.00 FEET.

HIGHEST WATER LEVEL 39.48 BELOW LSD, MAR. 30, 1973,  
 LOWEST WATER LEVEL 40.83 BELOW LSD, SEP. 28, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 30, 1973	39.48	SEP. 28, 1973	40.83	MAR. 4, 1974	40.14	APR. 29, 1974	39.98
MAY 3	39.65	OCT. 30	40.62	APR. 2	40.34		

TABLE 10.—MEASUREMENTS OF WATER LEVELS IN WELLS, CROSS COUNTY, ARK.—CONTINUED

07N02E09BBB1. W. M. BOSTIC. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DEPTH 150 FT. LSD 217 FT ABOVE MSL. MP TOP OF CASING ON NORTH SIDE, 0.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 217.00 FEET.

HIGHEST WATER LEVEL 41.35 BELOW LSD, FEB. 1, 1973,  
LOWEST WATER LEVEL 43.59 BELOW LSD, SEP. 16, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 1, 1973	41.35	OCT. 3, 1973	42.34	APR. 4, 1974	42.16	SEP. 16, 1975	43.59
MAR. 30	41.60	NOV. 1	42.34	MAY 1	42.12	APR. 7, 1976	43.42
APR. 30	41.46	MAR. 5, 1974	42.26	APR. 11, 1975	42.84		

07N03E05ADA1. J. E. BROWN. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 20 IN, DEPTH 160 FT. LSD 254 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 254.00 FEET.

HIGHEST WATER LEVEL 69.57 BELOW LSD, JUNE 19, 1957,  
LOWEST WATER LEVEL 84.17 BELOW LSD, SEP. 15, 1975.  
RECORDS AVAILABLE 1955, 1957-62, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 29, 1955	74.11	MAY 13, 1958	70.20	DEC. 24, 1959	71.75	APR. 11, 1967	76.35
JAN. 16, 1957	70.56	JUNE 12	70.60	JAN. 26, 1960	71.68	APR. 8, 1968	76.52
FEB. 13	70.26	JULY 23	71.73	FEB. 17	71.40	MAR. 20, 1969	77.51
MAR. 21	69.83	AUG. 6	71.26	MAR. 17	70.39	MAR. 20, 1970	78.04
APR. 18	70.17	SEP. 16	71.99	APR. 6	70.98	MAR. 18, 1971	79.08
MAY 15	69.90	OCT. 16	71.83	MAY 3	70.80	MAR. 23, 1972	80.14
JUNE 19	69.57	NOV. 19	71.57	SEP. 22	73.52	OCT. 25	84.14
JULY 16	71.71	DEC. 17	70.97	OCT. 19	73.87	MAR. 30, 1973	80.87
AUG. 28	70.82	JAN. 22, 1959	71.26	NOV. 17	73.71	MAY 2	80.80
SEP. 18	70.95	FEB. 12	70.91	DEC. 14	73.57	SEP. 28	82.25
OCT. 16	70.83	MAR. 12	70.48	JAN. 16, 1961	73.07	OCT. 30	82.04
NOV. 21	70.79	APR. 15	70.28	APR. 18	72.00	MAR. 5, 1974	81.74
DEC. 11	70.78	MAY 18	70.41	NOV. 29	73.48	APR. 2	81.59
JAN. 28, 1958	70.24	JUNE 16	71.83	FEB. 13, 1962	73.07	APR. 1, 1975	82.41
FEB. 12	70.07	SEP. 22	72.29	APR. 13, 1965	75.08	SEP. 15	84.17
MAR. 11	70.35	OCT. 21	72.10	MAR. 16, 1966	75.68	APR. 7, 1976	83.33
APR. 17	70.32	NOV. 18	71.75				

08N01E26CBB1. JOHN H. HILL. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 221 FT ABOVE MSL. MP TOP OF OUTER CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 221.00 FEET.

HIGHEST WATER LEVEL 46.74 BELOW LSD, MAY 1, 1974,  
LOWEST WATER LEVEL 49.09 BELOW LSD, SEP. 24, 1975.  
RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1973	47.57	MAR. 5, 1974	46.98	MAY 1, 1974	46.74	SEP. 24, 1975	49.09
NOV. 2	48.14	APR. 4	47.10	APR. 11, 1975	47.74		

08N02E29CBA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 225 FT ABOVE MSL. MP TOP OF CASING ON NORTH SIDE, 0.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 225.00 FEET.

HIGHEST WATER LEVEL 49.82 BELOW LSD, MAR. 30, 1973,  
LOWEST WATER LEVEL 52.39 BELOW LSD, OCT. 1, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 30, 1973	49.82	NOV. 1, 1973	50.74	APR. 4, 1974	50.57	OCT. 1, 1975	52.39
MAY 2	49.83	MAR. 5, 1974	50.61	APR. 11, 1975	51.34	APR. 7, 1976	51.93
OCT. 3	50.80						

TABLE 10.—MEASUREMENTS OF WATER LEVELS IN WELLS, CROSS COUNTY, ARK.—CONTINUED

08N03E09DAD1. H. O. JERNBERG. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 150 FT, CASED 0-110, SCREENED 110-150 FT. LSD 258 FT ABOVE MSL. MP HOLE IN BASE OF PUMP ON NORTHEAST SIDE, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 258.00 FEET.

HIGHEST WATER LEVEL 70.79 BELOW LSD, JUNE 19, 1957,  
 LOWEST WATER LEVEL 85.53 BELOW LSD, SEP. 15, 1975.  
 RECORDS AVAILABLE 1957-63, 1965-66, 1968-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 13, 1957	71.26	OCT. 16, 1958	71.69	JUNE 16, 1960	72.46	APR. 8, 1968	78.30
MAR. 21	70.85	NOV. 19	72.37	AUG. 23	72.97	AUG. 15	80.82
APR. 18	71.28	DEC. 17	71.78	SEP. 22	73.23	MAR. 20, 1969	78.53
MAY 15	71.20	JAN. 22, 1959	72.32	OCT. 19	73.47	APR. 28	78.69
JUNE 19	70.79	FEB. 12	72.17	NOV. 17	73.40	MAR. 20, 1970	80.48
JULY 16	72.03	MAR. 12	71.85	DEC. 14	73.26	MAR. 22, 1971	80.08
AUG. 28	71.53	APR. 15	71.99	JAN. 16, 1961	72.97	MAR. 23, 1972	81.18
SEP. 18	71.66	MAY 18	72.13	APR. 15	72.79	OCT. 25	82.26
OCT. 16	71.51	JUNE 16	72.04	NOV. 29	74.02	MAR. 30, 1973	82.00
NOV. 21	71.89	JULY 14	72.59	FEB. 13, 1962	73.77	MAY 2	81.98
DEC. 11	71.96	AUG. 10	72.93	APR. 17	73.45	SEP. 28	83.30
JAN. 28, 1958	71.71	SEP. 22	73.21	JUNE 6	73.41	OCT. 30	83.09
FEB. 12	71.43	OCT. 21	72.93	OCT. 22	74.17	MAR. 5, 1974	82.81
MAR. 11	71.68	NOV. 18	72.80	DEC. 12	74.42	APR. 2	82.74
APR. 17	71.61	DEC. 24	72.63	FEB. 21, 1963	74.29	MAY 1	83.00
MAY 13	71.52	JAN. 26, 1960	72.39	APR. 16	78.33	JUNE 25	102.54A
JUNE 12	71.39	FEB. 17	72.45	APR. 13, 1965	76.10	APR. 1, 1975	83.72
JULY 23	71.65	MAR. 17	72.31	MAR. 16, 1966	77.01	SEP. 15	85.53
AUG. 6	71.73	APR. 6	72.18	MAR. 4, 1968	79.79	APR. 7, 1976	83.33
SEP. 16	71.90	MAY 3	72.07				

08N03E32DDA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 253 FT ABOVE MSL. MP HOLE IN PUMP BASE ON SOUTH SIDE, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 253.00 FEET.

HIGHEST WATER LEVEL 77.67 BELOW LSD, APR. 2, 1974,  
 LOWEST WATER LEVEL 80.74 BELOW LSD, SEP. 15, 1975.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 24, 1973	91.02A	OCT. 30, 1973	78.28	APR. 2, 1974	77.67	SEP. 15, 1975	80.74
SEP. 28	78.54	MAR. 5, 1974	77.90	APR. 1, 1975	79.18		

A--PUMPING WATER LEVEL.

09N01E338BA1. H. H. HILLEMANN. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 226 FT ABOVE MSL. MP TOP OF CASING ON NORTH SIDE, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 226.00 FEET.

HIGHEST WATER LEVEL 34.90 BELOW LSD, JUNE 19, 1957,  
 LOWEST WATER LEVEL 49.62 BELOW LSD, MAR. 9, 1976.  
 RECORDS AVAILABLE 1957-62, 1964, 1967, 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1957	35.81	JUNE 11, 1958	36.62	MAR. 17, 1960	35.79	JAN. 26, 1967	42.01
FEB. 12	35.55	AUG. 5	38.35	MAY 3	36.05	APR. 11	41.00
MAR. 21	35.68	SEP. 18	36.62	SEP. 22	37.23	JUNE 1	43.50
APR. 15	35.47	NOV. 19	37.92	OCT. 18	37.06	MAR. 24, 1972	45.93
MAY 14	35.23	DEC. 16	37.25	NOV. 15	37.20	OCT. 13	47.98
JUNE 19	34.90	JAN. 21, 1959	36.83	DEC. 14	37.13	APR. 2, 1973	46.80
JULY 16	36.33	FEB. 11	36.97	JAN. 17, 1961	36.91	MAY 2	47.70
AUG. 27	36.34	MAR. 12	35.77	APR. 18	37.11	JULY 25	59.96A
SEP. 17	36.28	APR. 14	36.14	NOV. 29	38.25	SEP. 27	48.49
OCT. 15	36.03	SEP. 23	36.81	FEB. 9, 1962	36.19	OCT. 31	48.19
DEC. 10	35.67	OCT. 20	36.70	APR. 17	37.41	MAR. 5, 1974	47.68
JAN. 29, 1958	35.47	NOV. 18	36.21	AUG. 13	41.64	APR. 4	47.77
FEB. 12	35.80	DEC. 21	35.93	APR. 14, 1964	40.50	MAY 1	47.79
MAR. 11	35.71	JAN. 25, 1960	36.00	SEP. 25	41.07	OCT. 1, 1975	49.61
APR. 15	36.86	FEB. 16	35.67	NOV. 24	41.72	MAR. 9, 1976	49.62
MAY 15	36.67						

A--PUMPING WATER LEVEL.

TABLE 10.—MEASUREMENTS OF WATER LEVELS IN WELLS, CROSS COUNTY, ARK.—CONTINUED

09N01E36BAB1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 226 FT ABOVE MSL. MP TOP OF CASING ON NORTHEAST SIDE, 0.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 226.00 FEET.

HIGHEST WATER LEVEL 50.28 BELOW LSD, MAY 2, 1973,  
 LOWEST WATER LEVEL 53.55 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.  
 APR. 4, 1975 52.36, OCT. 1, 1975 53.55, MAR. 9, 1976 52.71.

09N02E30ADD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 226 FT ABOVE MSL. MP BOTTOM OF LARGE OPENING ON SOUTH SIDE, 2.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 226.00 FEET.

HIGHEST WATER LEVEL 52.92 BELOW LSD, MAY 2, 1973,  
 LOWEST WATER LEVEL 55.64 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 20, 1973	53.04	OCT. 31, 1973	54.55	APR. 2, 1974	53.88	OCT. 1, 1975	55.64
MAY 2	52.92	MAR. 5, 1974	54.14	APR. 4, 1975	54.10	MAR. 9, 1976	55.34
SEP. 27	54.82						

09N03E17DDC1. ZELMA BEASLEY. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. MP 0.5 IN PIPE HOLE IN NORTHWEST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 248.00 FEET.

HIGHEST WATER LEVEL 62.19 BELOW LSD, APR. 18, 1961,  
 LOWEST WATER LEVEL 75.31 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1961-63, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 18, 1961	62.19	APR. 8, 1968	67.84	OCT. 25, 1972	73.27	MAR. 5, 1974	73.03
APR. 17, 1962	62.81	MAR. 20, 1969	69.24	MAR. 30, 1973	72.18	APR. 2	73.02
APR. 16, 1963	63.13	MAR. 20, 1970	70.24	MAY 2	72.15	APR. 1, 1975	73.66
APR. 13, 1965	65.58	MAR. 22, 1971	70.63	SEP. 27	73.74	OCT. 1	75.31
MAR. 16, 1966	66.60	MAR. 23, 1972	71.49	OCT. 31	72.83	APR. 7, 1976	74.67
APR. 11, 1967	67.34						

TABLE 11. LOG OF TEST HOLES AND WELLS

CROSS COUNTY, ARKANSAS

351504090583401. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 14, 1975  
 LAND SURFACE ALTITUDE 219 FT.

LOCATION: 07N01E10BBB1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, MOTTLED YELLOW AND GRAY-----	14.0	15.0
SILT, SANDY, YELLOWISH-GRAY -----	3.0	18.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	25.0	43.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	23.0	66.0
SAND, MEDIUM; CONTAINS SOME CALCITIC GRAINS ----	6.0	72.0
SAND, MEDIUM TO COARSE; SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS -----	30.0	102.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	34.0	136.0
SAND, VERY COARSE, GRAVELLY -----	14.0	150.0
GRAVEL, SANDY -----	28.0	178.0
TERTIARY DEPOSITS:		
SAND, FINE, SILTY, INTERBEDDED WITH GREENISH- GRAY CLAY -----	8.0	186.0

TABLE 11. LOG OF TEST HOLES AND WELLS--CONTINUED

CROSS COUNTY, ARKANSAS

351606090532401. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 14, 1975  
 LAND SURFACE ALTITUDE 219 FT.

LOCATION: 07N02E04CDD1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL	2.0	2.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY	20.0	22.0
SILT, SANDY, YELLOWISH-GRAY	5.0	27.0
SAND, FINE, SILTY, YELLOWISH-GRAY; CONTAINS SOME CALCITIC GRAINS	9.0	36.0
CLAY, SILTY, CALCAREOUS, DARK GRAY	4.0	40.0
SAND, FINE, SILTY, LIGNITIC, DARK GRAY; CONTAINS SOME CALCITIC GRAINS AND PYRITIC SPECKS	9.0	49.0
SAND, FINE; CONTAINS SOME CALCITIC GRAINS	17.0	66.0
SAND, MEDIUM; CONTAINS SOME CALCITIC GRAINS	22.0	88.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS	35.0	123.0
SAND, COARSE TO VERY COARSE; SOME FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS	13.0	136.0
SAND, VERY COARSE, GRAVELLY	27.0	163.0
GRAVEL, SANDY	13.0	176.0
TERTIARY DEPOSITS:		
CLAY, BLUISH-GRAY, INTERBEDDED WITH FINE SAND	20.0	196.0

TABLE 11. LOG OF TEST HOLES AND WELLS--CONTINUED

CROSS COUNTY, ARKANSAS

351513090475801. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 15, 1975  
 LAND SURFACE ALTITUDE 236 FT.

LOCATION: 07N03E07AAB1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	3.0	3.0
QUATERNARY DEPOSITS:		
CLAY, YELLOWISH TO GREENISH-GRAY-----	5.0	8.0
SILT, CLAYEY, YELLOWISH-GRAY-----	10.0	18.0
CLAY, SILTY, YELLOWISH-GRAY -----	5.0	23.0
SILT, SANDY, YELLOWISH-GRAY -----	13.0	36.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	7.0	43.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	11.0	54.0
SAND, MEDIUM, DARK GRAY; CONTAINS LIGNITIC FRAGMENTS AND SOME CALCITIC GRAINS -----	6.0	60.0
SAND, MEDIUM; CONTAINS SOME CALCITIC GRAINS ----	15.0	75.0
SAND, MEDIUM TO COARSE; CONTAINS SOME CALCITIC GRAINS -----	15.0	90.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS-----	45.0	135.0
GRAVEL, SANDY -----	33.0	168.0
TERTIARY DEPOSITS:		
CLAY, LIGNITIC, DARK BROWNISH-GRAY AND WHITE SILTY FINE SAND -----	8.0	176.0

TABLE 11. LOG OF TEST HOLES AND WELLS--CONTINUED

CROSS COUNTY, ARKANSAS

351502090463001. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 15, 1975  
 LAND SURFACE ALTITUDE 275 FT.

LOCATION: 07N03E09AAD1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	2.0	2.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY -----	12.0	14.0
SILT, CLAYEY TO SANDY, YELLOWISH-GRAY -----	27.0	41.0
SILT, SANDY, YELLOWISH-GRAY -----	47.0	88.0
SAND, FINE, SILTY, SOME MEDIUM AND COARSE SAND-----	17.0	105.0
SAND, MEDIUM, SOME COARSE SAND, CONTAINS SOME CALCITIC GRAINS-----	10.0	115.0
SAND, MEDIUM TO COARSE; CONTAINS SOME CALCITIC GRAINS -----	49.0	164.0
TERTIARY DEPOSITS:		
CLAY, GREENISH-GRAY, INTERBEDDED WITH WHITE SILTY FINE SAND -----	27.0	191.0



TABLE 12.---CHEMICAL ANALYSES OF GROUND WATER, CROSS COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEOLOGIC UNIT	DATE OF SAMPLE	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)
351040090470301	037	06N03E04BAA1	GW 112TRRC	112TRRC	74-08-22	16.0	--	1	513
351519091004101	037	07N01E05CDA1	GW 112TRRC	112TRRC	74-06-25	16.5	890	2	745
352002090462501	037	08N03E09DAD1	GW 112TRRC	112TRRC	74-06-25	16.8	980	1	694
352203091000201	037	09N01E33BBA1	GW 112TRRC	112TRRC	73-07-25	17.0	895	--	630
	037		GW 112TRRC	112TRRC	74-06-25	16.4	900	2	581
352229090461901	037	09N03E28DDA1	GW 112TRRC	112TRRC	74-06-25	16.8	1030	1	646
352243090545201	037	09N02E30ADD1	GW 112TRRC	112TRRC	74-06-25	16.7	600	1	767

STATION NUMBER	DATE OF SAMPLE	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL SULFIDE (S) (MG/L)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
351040090470301	74-08-22	7.1	41	262	319	0	1.7	.12	--	240	0
351519091004101	74-06-25	7.4	25	328	400	0	.01	--	--	350	20
352002090462501	74-06-25	7.3	27	273	333	0	.01	.04	--	330	59
352203091000201	73-07-25	--	--	--	--	--	--	--	--	--	--
	74-06-25	7.5	17	271	331	0	.12	.09	.4	260	0
352229090461901	74-06-25	7.6	14	294	359	0	.01	.04	--	330	34
352243090545201	74-06-25	7.6	18	376	459	0	.00	.08	--	370	0

TABLE 12.—CHEMICAL ANALYSES OF GROUND WATER, CROSS COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)
351040090470301	74-08-22	65	20	12	.3	10	1.0	6.6	6.1	.2	41
351519091004101	74-06-25	98	25	25	.6	13	1.2	44	5.6	.2	36
352002090462501	74-06-25	85	29	22	.5	13	1.7	23	71	.1	37
352203091000201	73-07-25	--	--	--	--	--	--	--	--	--	--
	74-06-25	71	19	20	.5	15	1.0	24	5.7	.3	37
352229090461901	74-06-25	87	27	13	.3	8	1.3	6.8	49	.2	35
352243090545201	74-06-25	100	30	25	.6	13	1.1	12	39	.2	36

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
351040090470301	74-08-22	50	610	303	317	.41
351519091004101	74-06-25	2200	440	408	435	.55
352002090462501	74-06-25	1800	620	411	435	.56
352203091000201	73-07-25	--	--	--	--	--
	74-06-25	730	1100	328	344	.45
352229090461901	74-06-25	90	900	368	397	.50
352243090545201	74-06-25	2000	370	443	472	.60

TABLE 13.—RECORDS OF WELLS IN DESHA COUNTY, ARK.

Type of site: W, well.  
 Principal aquifer: 111ALVM, alluvium of Quaternary age.

Use of water: H, domestic; U, unused.  
 Remarks: L, water-level measurements included in report, see table 14.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
07S01E20DDD1	340343091014101	Britt-----	W	111ALVM	157	---	U	---	---	-----	---	-----	L
07S01E25DDA1	340256090573201	David Mullins-----	W	111ALVM	157	---	U	---	---	-----	---	-----	L
07S01E28BRA1	340336091012701	Britt-----	W	111ALVM	156	24	U	---	---	-----	---	-----	L
07S01E28BBA2	340334091013001	Britt-----	W	111ALVM	156	23	U	---	---	-----	---	-----	L
07S01W24CCA1	340351091043501	Brooks Griffith-----	W	111ALVM	151	40	U	---	---	-----	---	-----	L
07S02E29ACD1	340319090554401	-----	W	111ALVM	160	31	U	---	---	-----	---	-----	L
07S02E30BCC1	340314090572301	David Mullins-----	W	111ALVM	154	21	H	---	---	-----	---	-----	L

TABLE 14.—MEASUREMENTS OF WATER LEVELS IN WELLS, DESHA COUNTY, ARK.

07S01E20DDD1. BRITT. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 157 FT ABOVE MSL. MP TOP OF PIPE, 2.00 FT ABOVE LSD. WELL DESTROYED ON 04-03-75. ALTITUDE OF LAND SURFACE 157.00 FEET.

HIGHEST WATER LEVEL 4.62 BELOW LSD, MAR. 4, 1974,  
 LOWEST WATER LEVEL 8.67 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-74.  
 OCT. 3, 1973 8.03, NOV. 1, 1973 8.67, DEC. 21, 1973 7.24, MAR. 4, 1974 4.62,  
 APR. 1, 1974 5.59, APR. 29, 1974 5.57.

07S01E25DDA1. DAVID MULLINS. DRIVEN UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 157 FT ABOVE MSL. MP TOP OF PIPE, 0.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 157.00 FEET.

HIGHEST WATER LEVEL 6.36 BELOW LSD, APR. 29, 1974,  
 LOWEST WATER LEVEL 12.95 BELOW LSD, SEP. 22, 1975.  
 RECORDS AVAILABLE 1974-76.  
 APR. 1, 1974 6.62, APR. 29, 1974 6.36, APR. 3, 1975 6.60, SEP. 22, 1975 12.95,  
 APR. 1, 1976 10.92.

07S01E28BBA1. BRITT. DRIVEN UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 24 FT. LSD 156 FT ABOVE MSL. MP TOP OF PITCHER PUMP, 2.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 156.00 FEET.

HIGHEST WATER LEVEL 6.78 BELOW LSD, MAR. 8, 1973,  
 LOWEST WATER LEVEL 8.34 BELOW LSD, JAN. 31, 1973.  
 RECORDS AVAILABLE 1973.  
 JAN. 31, 1973 8.34, FEB. 14, 1973 7.23, MAR. 8, 1973 6.78.

07S01E28BBA2. BRITT. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 22.6 FT. LSD 156 FT ABOVE MSL. MP TOP OF PIPE, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 156.00 FEET.

HIGHEST WATER LEVEL 3.07 BELOW LSD, MAY 18, 1973,  
 LOWEST WATER LEVEL 9.12 BELOW LSD, SEP. 22, 1975.  
 RECORDS AVAILABLE 1973, 1975-76.  
 APR. 3, 1973 5.22, MAY 18, 1973 3.07, APR. 3, 1975 6.79, SEP. 22, 1975 9.12,  
 MAR. 31, 1976 8.66.

07S01W24CCA1. BROOKS GRIFFITH. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 40 FT. LSD 151 FT ABOVE MSL. MP TOP OF PIPE, 1.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 151.00 FEET.

HIGHEST WATER LEVEL 2.06 BELOW LSD, FEB. 14, 1973,  
 LOWEST WATER LEVEL 11.44 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	3.68	OCT. 3, 1973	10.76	MAR. 4, 1974	2.55	SEP. 22, 1975	10.60
FEB. 14	2.06	NOV. 1	11.44	APR. 1	3.91	APR. 1, 1976	4.18
MAR. 8	2.89	DEC. 21	4.59	APR. 29	3.92		

TABLE 14.—MEASUREMENTS OF WATER LEVELS IN WELLS, DESHA COUNTY, ARK.—CONTINUED

07S02E29ACD1. BROOKS GRIFFITH. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 31 FT. LSD 160 FT ABOVE MSL. MP TOP OF PIPE, 2.50 FT ABOVE LSD. WELL DESTROYED.  
 ALTITUDE OF LAND SURFACE 160.00 FEET.

HIGHEST WATER LEVEL 0.0 ABOVE LSD, MAY 18, 1973,  
 LOWEST WATER LEVEL 9.22 BELOW LSD, JAN. 31, 1973.  
 RECORDS AVAILABLE 1973.  
 JAN. 31, 1973 9.22, FEB. 14, 1973 7.41, MAR. 8, 1973 8.50, APR. 3, 1973 0.11,  
 MAY 18, 1973 0.00.

07S02E30BCC1. DAVID MULLINS. DRIVEN DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 20.5 FT. LSD 154 FT ABOVE MSL. MP TOP OF PIPE, 2.00 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 154.00 FEET.

HIGHEST WATER LEVEL 1.04 BELOW LSD, FEB. 14, 1973,  
 LOWEST WATER LEVEL 8.04 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 31, 1973	2.11	APR. 3, 1973	2.23	OCT. 3, 1973	7.96	DEC. 21, 1973	4.95
FEB. 14	1.04	MAY 18	2.60	NOV. 1	8.04	MAR. 4, 1974	2.63
MAR. 8	1.54						

TABLE 15.—RECORDS OF TEST HOLES AND WELLS IN GREENE COUNTY, ARK.

Remarks: G, lithologic log included in report, see table 17; L, water-level measurements included in report, see table 16; Q, chemical analyses included in report, see table 18.

Type of site: T, test hole; W, well.  
 Principal aquifer: 111ALVM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
16N02E35CDC1	355805090505201	-----	T	111ALVM	247	131	U	15.5	230	8-1-73	230	8-1-73	G
16N03E01ADC1	360253090424201	-----	W	112TRRC	273	---	I	16.0	500	8-1-73	889	8-1-73	L
16N03E27BB1	355941090453301	-----	W	112TRRC	258	110	I	16.0	420	8-1-73	1,402	8-1-73	Q, L
17N03E02BDB1	360830090441201	-----	W	111ALVM	266	---	I	---	---	---	---	---	L
17N03E32ABB1	360411090471901	-----	W	111ALVM	261	24	U	---	---	---	---	---	L
17N04E30CDC1	360410090420901	Loyd Shumard	W	112TRRC	265	---	I	17.0	201	8-7-67	---	---	L
17N04E32AAD1	360358090402201	Randall Dennis	W	112TRRC	291	125	I	15.5	174	8-22-74	730	8-22-74	L
18N03E06BB1	361414090481201	-----	W	112TRRC	275	115	I	15.5	500	7-31-73	971	7-31-73	Q, L
18N04E21CAA1	361103090392001	-----	W	112TRRC	272	---	I	16.0	624	7-12-74	350	7-12-74	Q
18N04E22ADD1	361102090374001	Jack Boyd	W	112TRRC	288	---	I	---	---	---	---	---	L
19N03E27DAA1	361536090440601	Woodrow Stacy	W	112TRRC	282	100	I	15.5	420	7-31-73	643	7-31-73	L
19N04E29AAA1	361559090394701	Lutrell	W	112TRRC	282	---	I	15.5	530	7-31-73	1,046	7-31-73	L
19N05E27BB1	361540090315501	Davidson	W	112TRRC	286	---	I	15.5	830	7-31-73	1,402	7-31-73	L
19N05E31BB1	361453090351301	Gordon Baldwin	W	112TRRC	282	---	I	16.0	540	7-31-73	1,348	7-31-73	L
19N05E34ACD1	361426090311901	Walter Lange	W	112TRRC	285	98	I	---	---	---	---	---	Q, L

TABLE 16.—MEASUREMENTS OF WATER LEVELS IN WELLS, GREENE COUNTY, ARK.

16N03E01ADC1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 273 FT ABOVE MSL. MP TOP OF CASING NORTH SIDE, 0.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 273.00 FEET.

HIGHEST WATER LEVEL 18.41 BELOW LSD, OCT. 2, 1973,  
 LOWEST WATER LEVEL 18.41 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1973.  
 AUG. 1, 1973 43.58A, OCT. 2, 1973 18.41.

A--PUMPING WATER LEVEL.

16N03E27BBA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 110 FT. LSD 258 FT ABOVE MSL. MP TOP OF PIT CASING WEST SIDE, AT LSD. ALTITUDE OF LAND SURFACE 258.00 FEET.

HIGHEST WATER LEVEL 2.98 BELOW LSD, MAR. 26, 1975,  
 LOWEST WATER LEVEL 6.46 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 1, 1973	31.60A	MAR. 7, 1974	3.26	MAY 1, 1974	3.23	OCT. 1, 1975	6.46
OCT. 1	6.03	APR. 3	3.29	MAR. 26, 1975	2.98	MAR. 17, 1976	3.61
NOV. 6	6.30						

A--PUMPING WATER LEVEL.

17N03E02BDB1. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN, DEPTH 115 FT. LSD 266 FT ABOVE MSL. MP BASE OF LARGE OPENING NORTH SIDE OF PUMP BASE, 1.10 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 266.00 FEET.

HIGHEST WATER LEVEL 1.98 BELOW LSD, APR. 18, 1975,  
 LOWEST WATER LEVEL 8.41 BELOW LSD, MAR. 21, 1969.  
 RECORDS AVAILABLE 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1967	7.40	APR. 8, 1970	6.38	AUG. 1, 1973	22.76A	MAY 2, 1974	4.15
APR. 12	6.85	MAR. 26, 1971	5.50	OCT. 2	7.91	APR. 18, 1975	1.98
JUNE 2	24.98A	APR. 6, 1972	7.50	NOV. 7	8.38	OCT. 3	8.29
APR. 9, 1968	8.13	MAR. 23, 1973	2.86	MAR. 7, 1974	3.60	MAR. 17, 1976	5.77
MAR. 21, 1969	8.41	APR. 5	2.84	APR. 3	4.26		

A--PUMPING WATER LEVEL

17N03E32ABB1. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 24.0 FT. LSD 261 FT ABOVE MSL. MP TOP OF PIPE, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 261.00 FEET.

HIGHEST WATER LEVEL 3.34 BELOW LSD, APR. 30, 1973,  
 LOWEST WATER LEVEL 11.40 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1973	7.91	OCT. 2, 1973	9.91	APR. 3, 1974	6.50	OCT. 1, 1975	11.4
APR. 5	5.10	NOV. 6	10.35	MAY 1	6.59	MAR. 17, 1976	7.77
APR. 30	3.34	MAR. 7, 1974	6.18	APR. 18, 1975	4.40		

TABLE 16.—MEASUREMENTS OF WATER LEVELS IN WELLS, GREENE COUNTY, ARK.—CONTINUED

17N04E30CDC1. LOYD SHUMARD. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 265 FT ABOVE MSL. MP TOP EDGE OF DISCHARGE PIPE, 5.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 265.00 FEET.

HIGHEST WATER LEVEL 6.12 BELOW LSD, MAY 2, 1973,  
 LOWEST WATER LEVEL 14.82 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1957, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1957	9.23	MAR. 27, 1970	10.09	OCT. 2, 1973	12.29	MAY 1, 1974	6.88
APR. 12, 1967	8.09	MAR. 26, 1971	9.55	NOV. 6	11.04	APR. 18, 1975	7.29
APR. 9, 1968	8.74	APR. 6, 1972	10.55	MAR. 7, 1974	7.14	OCT. 1	14.82
MAR. 21, 1969	9.81	APR. 5, 1973	7.13	APR. 3	6.52	MAR. 17, 1976	10.41
APR. 22	9.38	MAY 2	6.12				

17N04E32AAD1. RANDALL DENNIS. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 125 FT. MP END OF DISCHARGE PIPE, 8.50 FT ABOVE LSD. NO ALTITUDE OF LAND SURFACE AVAILABLE FOR THIS WELL

HIGHEST WATER LEVEL 28.80 BELOW LSD, OCT. 1, 1975,  
 LOWEST WATER LEVEL 28.80 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1975.  
 OCT. 1, 1975 28.80.

18N03E06BBA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 115 FT. LSD 275 FT ABOVE MSL. MP TOP OF CASING, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 275.00 FEET.

HIGHEST WATER LEVEL 15.10 BELOW LSD, MAY 1, 1973,  
 LOWEST WATER LEVEL 18.71 BELOW LSD, NOV. 7, 1973.  
 RECORDS AVAILABLE 1970, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 19, 1970	18.46	JULY 31, 1973	27.37A	MAR. 6, 1974	16.27	APR. 18, 1975	17.24
APR. 4, 1973	16.03	OCT. 2	18.50	APR. 3	16.02	OCT. 3	18.50
MAY 1	15.10	NOV. 7	18.71	MAY 2	17.07	MAR. 17, 1976	18.13

A--PUMPING WATER LEVEL.

18N04E22ADD1. JACK BOYD. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. LSD 288 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, AT LSD. ALTITUDE OF LAND SURFACE 288.00 FEET.

HIGHEST WATER LEVEL 19.77 BELOW LSD, MAY 2, 1973,  
 LOWEST WATER LEVEL 28.02 BELOW LSD, OCT. 3, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1973	20.26	OCT. 2, 1973	25.85	APR. 3, 1974	20.68	OCT. 3, 1975	28.02
APR. 5	20.57	MAR. 7, 1974	21.53	MAY 2	22.10	MAR. 17, 1976	26.53
MAY 2	19.77						



TABLE 16.—MEASUREMENTS OF WATER LEVELS IN WELLS, GREENE COUNTY, ARK.—CONTINUED

19N03E27DAA1. WOODROW STACY. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 100 FT. LSD 282 FT ABOVE MSL. MP TOP OF CASING NORTHEAST SIDE, 1.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 282.00 FEET.

HIGHEST WATER LEVEL 17.58 BELOW LSD, APR. 18, 1975,  
 LOWEST WATER LEVEL 20.64 BELOW LSD, OCT. 3, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 31, 1973	30.25A	MAR. 6, 1974	17.75	MAY 2, 1974	18.72	OCT. 3, 1975	20.64
OCT. 2	20.02	APR. 3	18.22	APR. 18, 1975	17.58	MAR. 17, 1976	19.17
NOV. 7	19.90						

A--PUMPING WATER LEVEL.

19N04E29AAA1. LUTRELL. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 102 FT. LSD 282 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 282.00 FEET.

HIGHEST WATER LEVEL 14.93 BELOW LSD, OCT. 2, 1973,  
 LOWEST WATER LEVEL 14.93 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1973.  
 JULY 31, 1973 21.72A, OCT. 2, 1973 14.93.

A--PUMPING WATER LEVEL.

19N05E27BBA1. DAVIDSON. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. LSD 286 FT ABOVE MSL. MP HOLE IN PUMP BASE, 0.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 286.00 FEET.

HIGHEST WATER LEVEL 14.15 BELOW LSD, OCT. 2, 1973,  
 LOWEST WATER LEVEL 14.15 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1973.  
 OCT. 2, 1973 14.15.

19N05E31BBB1. GORDON BALDWIN. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 282 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 282.00 FEET.

HIGHEST WATER LEVEL 14.20 BELOW LSD, MAR. 7, 1974,  
 LOWEST WATER LEVEL 15.34 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1973-74.  
 JULY 30, 1973 22.70A, OCT. 2, 1973 15.34, NOV. 7, 1973 15.25, MAR. 7, 1974 14.20.

A--PUMPING WATER LEVEL.

19N05E34ACD1. WALTER LANGE. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 98 FT. LSD 285 FT ABOVE MSL. MP END OF DISCHARGE PIPE, 8.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 285.00 FEET.

HIGHEST WATER LEVEL 6.53 BELOW LSD, APR. 18, 1975,  
 LOWEST WATER LEVEL 15.15 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1970, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 19, 1970	12.66	OCT. 2, 1973	15.15	APR. 3, 1974	9.52	APR. 18, 1975	6.53
MAR. 23, 1973	8.77	NOV. 7	15.06	MAY 2	9.97	OCT. 3	14.73
APR. 5	8.23	MAR. 7, 1974	8.81	JUNE 27	15.07B	MAR. 17, 1976	10.03

B--WELL PUMPED RECENTLY.

TABLE 17.--LOG OF TEST HOLES AND WELLS

GREENE COUNTY, ARKANSAS

355805090505201. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 23, 1975  
 LAND SURFACE ALTITUDE 247 FT.

LOCATION: 16N02E35CDC1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	8.0	8.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, BROWNISH-GRAY; CONTAINS SOME CALCITIC GRAINS AND FINE OXIDE CONCRETIONS --	3.0	11.0
SAND, FINE, SILTY, LIGNITIC, DARK GRAY -----	17.0	28.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	20.0	48.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS -----	31.0	79.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS -----	40.0	119.0
GRAVEL, SANDY; CONTAINS SOME CALCITIC GRAINS----	10.0	129.0
TERTIARY DEPOSITS:		
CLAY, DARK GRAY; CONTAINS SOME PYRITIC SPECKS	2.0	131.0

TABLE 18.—CHEMICAL ANALYSES OF GROUND WATER, GREENE COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
360358090402201	055	17N04E32AAD1	GW	112TRRC	74-08-22	125	15.5	730	30
360830090441201	055	17N03E02BDB1	GW	111ALVM	67-08-08	--	17.2	1100	2
	055		GW	111ALVM	73-08-01	--	16.0	1400	--
	055		GW	112TRRC	74-07-12	--	15.5	1100	20
361103090392001	055	18N04E21CAA1	GW	112TRRC	74-07-12	--	16.0	350	4
361426090311901	055	19N05E34ACD1	GW	112TRRC	74-06-27	98	15.0	550	4

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CAC03 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
360358090402201	74-08-22	174	6.6	37	75	91	0	--	--	.98	.12
360830090441201	67-08-08	354	7.8	5.7	184	224	0	--	.05	--	--
	73-08-01	420	--	--	--	--	--	--	--	--	--
	74-07-12	391	7.2	25	199	243	0	.17	.01	.18	--
361103090392001	74-07-12	624	7.1	44	286	349	0	.00	.00	.00	--
361426090311901	74-06-27	436	6.8	57	185	225	0	--	--	.12	.47

STATION NUMBER	DATE OF SAMPLE	TOTAL SULFIDE (S) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
360358090402201	74-08-22	--	55	0	13	5.5	17	1.0	40	.9	5.2
360830090441201	67-08-08	--	163	0	49	10	11	.4	13	2.1	2.9
	73-08-01	--	--	--	--	--	--	--	--	--	--
	74-07-12	--	180	0	53	11	13	.4	14	2.0	3.5
361103090392001	74-07-12	.2	250	0	72	16	37	1.0	24	2.9	30
361426090311901	74-06-27	.8	170	0	43	14	27	.9	26	1.2	13

TABLE 18.—CHEMICAL ANALYSES OF GROUND WATER, GREENE COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
360358090402201	74-08-22	5.1	.1	47	2200	250	--	128	145
360830090441201	67-08-08	4.9	.1	34	1500	580	0	226	226
	73-08-01	--	--	--	--	--	--	--	--
	74-07-12	8.2	.1	36	4100	760	--	239	252
361103090392001	74-07-12	3.3	.2	36	7300	940	--	362	378
361426090311901	74-06-27	30	.3	44	5800	1100	--	268	291

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)
360358090402201	74-08-22	.17	--	--
360830090441201	67-08-08	--	.20	--
	73-08-01	--	--	--
	74-07-12	.33	.04	.56
361103090392001	74-07-12	.49	.00	.00
361426090311901	74-06-27	.36	--	--

TABLE 19. — RECORDS OF TEST HOLES AND WELLS IN INDEPENDENCE COUNTY, ARK.

Remarks: G, lithologic log included in report, see table 21; L, water-level measurements included in report, see table 20; Q, chemical analyses of water included in report, see table 22.

Type of site: T, test hole; W, well.  
 Principal aquifer: I11ALVM, alluvium of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
12N03W18CBD1	354020091212901	Roy Sanders	W	I11ALVM	234	32	U	---	---	---	---	---	L
12N04W08CCB1	354037091271001	---	W	I11ALVM	238	--	I	---	---	---	---	---	L
12N04W11BBB1	354113091235101	Jim Allens	W	I11ALVM	234	--	U	---	---	---	---	---	L
13N03W04DBD1	354729091183701	---	T	I11ALVM	223	71	U	---	---	---	---	---	G
13N03W15ABC1	354608091174501	---	T	I11ALVM	222	91	U	---	---	---	---	---	G
14N03W13CBA1	355106091154801	D. R. Kennedy	W	I11ALVM	229	19	U	---	---	---	---	---	L
14N03W14CDD1	355042091163401	D. R. Kennedy	W	I11ALVM	226	59	I	15.0	586	7-10-74	475	7-10-74	Q
14N03W14DBB1	355105091162501	D. R. Kennedy	W	I11ALVM	230	65	I	15.5	540	7-25-73	800	7-25-73	L
14N03W26BDC1	354928091164001	E. R. Coleman	W	I11ALVM	225	--	I	---	---	---	2,000	7-15-55	L

TABLE 20.—MEASUREMENTS OF WATER LEVELS IN WELLS, INDEPENDENCE COUNTY, ARK.

12N03W18CBD1. ROY SANDERS. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 32 FT. LSD 234 FT ABOVE MSL. MP TOP OF PIPE, 0.35 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 234.00 FEET.

HIGHEST WATER LEVEL 11.02 BELOW LSD, APR. 4, 1973,  
 LOWEST WATER LEVEL 23.88 BELOW LSD, SEP. 29, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 21, 1973	11.74	OCT. 30, 1973	23.25	APR. 2, 1974	14.14	SEP. 29, 1975	23.88
APR. 4	11.02	MAR. 4, 1974	12.90	APR. 29	14.85	MAR. 15, 1976	22.26
SEP. 26	20.95						

12N04W08CCB1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 14 IN. LSD 238 FT ABOVE MSL. MP TOP OF CASING, 1.25 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 238.00 FEET.

HIGHEST WATER LEVEL 14.04 BELOW LSD, APR. 4, 1973,  
 LOWEST WATER LEVEL 25.77 BELOW LSD, SEP. 29, 1975.  
 RECORDS AVAILABLE 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1972	25.01	SEP. 26, 1973	19.30	APR. 2, 1974	17.86	SEP. 29, 1975	25.77
MAR. 21, 1973	15.80	OCT. 30	21.21	APR. 29	18.73	MAR. 15, 1976	22.78
APR. 4	14.04	MAR. 4, 1974	15.35				

12N04W118BB1. JIM ALLENS. DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 234 FT ABOVE MSL. MP TOP OF CASING, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 234.00 FEET.

HIGHEST WATER LEVEL 13.93 BELOW LSD, APR. 4, 1973,  
 LOWEST WATER LEVEL 23.74 BELOW LSD, SEP. 29, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 21, 1973	15.84	OCT. 30, 1973	21.93	APR. 2, 1974	14.87	SEP. 29, 1975	23.74
APR. 4	13.93	MAR. 4, 1974	13.95	APR. 29	15.74	MAR. 15, 1976	23.02
SEP. 26	18.37						

14N03W13CBA1. D. R. KENNEDY. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 18.5 FT. LSD 229 FT ABOVE MSL. MP TOP OF PIPE, 2.10 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 229.00 FEET.

HIGHEST WATER LEVEL 2.10 ABOVE LSD, APR. 4, 1973,  
 LOWEST WATER LEVEL 6.97 BELOW LSD, OCT. 30, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 21, 1973 +	2.00	OCT. 30, 1973	6.97	APR. 2, 1974 +	0.77	SEP. 29, 1975	1.92
APR. 4 +	2.10	MAR. 4, 1974 +	1.41	APR. 29 +	0.45	MAR. 15, 1976	0.54
SEP. 26	6.50						

TABLE 20.—MEASUREMENTS OF WATER LEVELS IN WELLS, INDEPENDENCE COUNTY, ARK.—CONTINUED

14N03W14DBB1. D. R. KENNEDY. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN, DEPTH 65 FT. LSD 230 FT ABOVE MSL. MP HOLE IN PUMP, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 230.00 FEET.

HIGHEST WATER LEVEL 4.77 BELOW LSD, SEP. 26, 1973,  
 LOWEST WATER LEVEL 4.77 BELOW LSD, SEP. 26, 1973.  
 RECORDS AVAILABLE 1973.  
 JULY 25, 1973 8.52A, SEP. 26, 1973 4.77.

A—PUMPING WATER LEVEL.

14N03W26BDC1. E. R. COLEMAN. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN, DEPTH 63 FT. LSD 225 FT ABOVE MSL. MP TOP OF PIT CASING SOUTH SIDE, 3.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 225.00 FEET.

HIGHEST WATER LEVEL 0.76 BELOW LSD, APR. 2, 1974,  
 LOWEST WATER LEVEL 11.03 BELOW LSD, JULY 15, 1955.  
 RECORDS AVAILABLE 1955, 1964, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 15, 1955	11.03	MAR. 21, 1969	1.07	OCT. 24, 1972	9.45	APR. 2, 1974	0.76
APR. 1, 1964	9.51	APR. 8, 1970	3.38	SEP. 26, 1973	7.89	APR. 29	1.96
APR. 24, 1967	5.40	MAR. 31, 1971	3.02	OCT. 30	8.45	SEP. 29, 1975	4.36
APR. 1, 1968	2.47	MAR. 30, 1972	7.05	MAR. 4, 1974	1.02	MAR. 15, 1976	2.62

TABLE 21.—LOG OF TEST HOLES AND WELLS--CONTINUED

INDEPENDENCE COUNTY, ARKANSAS

354608091174501. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 17, 1975  
 LAND SURFACE ALTITUDE 222 FT.

LOCATION: 13N03W15ABC1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY; CONTAINS SOME SMALL CALCITIC NODULES -----	9.0	10.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	8.0	18.0
SAND, FINE TO MEDIUM-----	24.0	42.0
SAND, MEDIUM TO COARSE; CONTAINS SOME CALCITIC GRAINS -----	16.0	58.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS AND LIGNITIC FRAGMENTS -----	16.0	74.0
TERTIARY DEPOSITS:		
CLAY, CALCAREOUS, DARK GRAY, INTERBEDDED WITH SILTY FINE SAND-----	17.0	91.0



TABLE 21.—LOG OF TEST HOLES AND WELLS  
 INDEPENDENCE COUNTY, ARKANSAS

354729091183701. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 17, 1975  
 LAND SURFACE ALTITUDE 223 FT.

LOCATION: 13N03W04DBD1.

	THICKNESS (FEET)	DEPTH (FEET)
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS -----	3.0	3.0
SILT, SANDY, YELLOWISH-GRAY -----	9.0	12.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	16.0	28.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	12.0	40.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL -----	25.0	65.0
CRETACEOUS(?) DEPOSITS:		
CLAY, SILTY, CALCAREOUS, DARK GREENISH- GRAY; CONTAINS SOME GLAUCONTIC GRAINS AND PYRITIC SPECKS -----	6.0	71.0



TABLE 25.—RECORDS OF TEST HOLES AND WELLS IN JACKSON COUNTY, ARK.

Local number	Station number	Owner	Type of Site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
09N01W22ADD1	352330091043201	O. O. Hamilton---	W	112TRRC	215	---	I	---	---	---	---	---	L
09N02W08RCC1	352527091134701	Ollis Largent---	W	112TRRC	218	---	I	16.5	253	6-27-74	2,180	6-27-74	Q,
09N02W32CBB1	352151091134701	Clyde Henderson--	W	112TRRC	220	117	I	16.4	---	9-18-58	1,700	9-18-58	L
10N01W17AAA1	353006091064201	-----	W	111A1VM	223	---	I	---	---	---	---	---	L
10N01W29AAA1	352823091064401	-----	W	112TRRC	222	---	I	16.5	473	8-14-74	1,100	8-14-74	Q
10N02W08ABA1	353105091130401	-----	W	112TRRC	226	---	I	---	---	---	---	---	L
10N02W2CCD1	352829091112701	-----	W	112TRRC	223	---	I	16.5	446	6-27-74	900	6-27-74	Q
10N02W23CDD1	352830091101801	-----	W	112TRRC	217	---	I	---	---	---	---	---	L
10N02W27BBB1	352828091114501	-----	W	112TRRC	224	---	I	---	---	---	---	---	L
10N02W31DDA1	352656091140401	Methodist Church-	W	112TRRC	223	22	U	---	---	---	---	---	L
10N03W20RBA1	352915091201401	-----	W	111A1VM	215	38	U	---	---	---	---	---	L
10N03W33DAA1	352822091192401	-----	W	111A1VM	211	---	U	16.4	315	6-27-74	1,200	6-27-74	Q
10N03W34CCC1	352648091181001	Toby McDonald---	W	111A1VM	210	---	U	---	---	---	---	---	L
11N01W28ABA1	353338091055301	McDonald and Dupree	W	111A1VM	206	---	I	16.5	---	6-26-74	1,618	8-16-73	L
11N02W09BBA1	353628091092501	-----	W	112TRRC	227	---	I	---	---	---	---	---	L
11N02W12BBB1	35328091122901	-----	W	112TRRC	231	---	I	16.5	426	6-26-74	1,200	6-26-74	Q,
11N02W29BBC1	353338091134801	-----	W	112TRRC	230	29	U	---	---	---	---	---	L
11N03W11ABD1	353616091162801	-----	W	111A1VM	210	---	P	17.0	253	9- 4-74	---	---	Q
12N01W25BBB1	353857091032101	-----	T	111A1VM	226	121	U	---	---	---	---	---	G
12N02W5ABB1	353909091085101	R. D. Wilmans---	W	112TRRC	232	---	U	---	---	---	---	---	L
12N02W25ABB2	353909091085102	R. D. Wilmans---	W	112TRRC	232	---	I	---	---	---	---	---	L
12N03W55BCA1	353800091170601	C. F. Parsley---	W	111A1VM	220	95	I	16.5	251	7-10-74	1,250	7-10-74	Q,
12N03W55CAC1	353740091165101	C. F. Parsley---	W	111A1VM	221	---	U	---	---	---	---	---	L
13N01W03ABA1	354751091043301	-----	W	111A1VM	244	22	U	---	---	---	---	---	L
13N01W06ABB1	354756091075501	-----	W	112TRRC	246	20	U	---	---	---	---	---	L
13N01W20AAA1	354513091062501	Charles Sue-----	W	112TRRC	242	147	I	16.0	---	6-28-74	1,300	6-28-74	Q,
13N01W20RCD1	354453091071701	Stacy-----	W	112TRRC	243	---	I	16.5	430	7-30-73	2,285	7-30-73	L
13N01W33ABC1	354316091055701	-----	W	112TRRC	241	---	I	---	---	---	---	---	L
13N02W05DCB1	354715091132601	Church of Christ-	W	112TRRC	251	---	U	---	---	---	---	---	L
13N02W06CDA1	354718091142601	Jim Pickards-----	W	111A1VM	247	---	U	---	---	---	---	---	L
13N02W27ABB1	354425091111601	Abe Jones-----	W	112TRRC	245	120	I	16.5	600	7-23-73	1,670	7-23-73	Q,
13N02W34ABB1	354334091111801	-----	T	112TRRC	241	121	U	---	---	---	---	---	L
13N03W23ADD1	354459091161101	Holt Prothers-----	T	112TRRC	241	116	U	---	---	---	---	---	G
13N03W35AAA1	354336091161301	-----	W	112TRRC	238	21	U	---	---	---	---	---	L
14N01W10ABB1	355215091043401	-----	W	112TRRC	251	19	U	---	---	---	---	---	L
14N01W13BBB1	355121091030101	Jim Thomas-----	W	112TRRC	245	125	I	15.5	526	6-28-74	1,300	6-28-74	Q
14N01W14DBB1	355052091033201	Edward F. Ball---	W	112TRRC	249	80	I	16.0	440	7-23-73	1,240	7-23-73	L
14N01W26ABB1	354936091033601	-----	W	112TRRC	248	---	I	17.2	---	8-18-69	1,080	8-18-69	L
14N02W23BBB1	355035091103401	Herman Hunter-----	W	112TRRC	251	99	I	---	---	---	---	---	Q,
14N02W35AAA1	354858091093701	-----	W	112TRRC	244	---	I	16.0	470	7-23-73	1,280	7-23-73	L

Remarks: G, lithologic log included in report, see table 25; L, water-level measurements included in report, see table 24; Q, chemical analyses of water included in report, see table 26.

Type of site: T, test hole; W, well.  
Principal aquifer: 111A1VM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.  
Use of water: I, irrigation; P, public supply; U, unused.

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.

09N01W22ADD1. O. O. HAMILTON. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 125 FT. LSD 215 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 215.00 FEET.

HIGHEST WATER LEVEL 24.85 BELOW LSD, APR. 4, 1960,  
 LOWEST WATER LEVEL 34.89 BELOW LSD, OCT. 25, 1972, OCT. 25, 1972.  
 RECORDS AVAILABLE 1960-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 25, 1972	34.89	NOV. 7, 1973	32.83	APR. 4, 1974	30.86	SEP. 29, 1975	34.38
APR. 2, 1973	32.59	MAR. 6, 1974	30.98	APR. 3, 1975	32.21	MAR. 10, 1976	33.36
SEP. 25	34.21						

09N02W08BCC1. ULLIS LARGENT. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 218 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 218.00 FEET.

HIGHEST WATER LEVEL 1.70 BELOW LSD, APR. 25, 1973,  
 LOWEST WATER LEVEL 9.09 BELOW LSD, SEP. 17, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 25, 1973	1.70	NOV. 6, 1973	8.91	APR. 4, 1974	5.41	SEP. 17, 1975	9.09
AUG. 16	30.22A	DEC. 5	7.46	MAY 2	4.41	MAR. 10, 1976	8.15
OCT. 29	9.00	MAR. 6, 1974	4.61	APR. 3, 1975	4.67		

A--PUMPING WATER LEVEL.

09N02W32CBB1. CLYDE HENDERSON. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 117 FT. LSD 220 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 220.00 FEET.

HIGHEST WATER LEVEL 19.53 BELOW LSD, APR. 25, 1973,  
 LOWEST WATER LEVEL 26.29 BELOW LSD, SEP. 22, 1960.  
 RECORDS AVAILABLE 1958-63, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 11, 1959	21.67	MAR. 16, 1960	20.88	AUG. 13, 1962	22.79	APR. 2, 1973	20.20
MAR. 12	21.29	APR. 4	20.98	APR. 16, 1963	21.75	APR. 25	19.53
APR. 14	20.95	SEP. 22	26.29	APR. 13, 1965	21.57	SEP. 27	23.03
MAY 18	21.11	OCT. 18	25.70	MAR. 16, 1966	21.68	NOV. 6	22.72
JUNE 15	23.02	NOV. 17	25.57	APR. 11, 1967	21.85	DEC. 5	22.57
JULY 14	24.90	DEC. 14	25.83	APR. 1, 1968	21.00	MAR. 7, 1974	20.49
SEP. 23	25.09	JAN. 17, 1961	25.11	MAR. 20, 1969	21.40	APR. 3	20.20
OCT. 20	23.76	APR. 18	20.14	MAR. 27, 1970	22.15	MAY 1	20.28
NOV. 18	22.85	NOV. 29	24.19	MAR. 26, 1971	20.98	APR. 3, 1975	20.28
DEC. 10	22.11	FEB. 7, 1962	21.00	MAR. 24, 1972	22.13	SEP. 17	23.11
JAN. 19, 1960	22.30	APR. 17	20.25	OCT. 25	23.49	MAR. 10, 1976	21.36
FEB. 16	22.11	JUNE 6	21.57	MAR. 14, 1973	20.41		

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

10N01W17AAA1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. LSD 223 FT ABOVE MSL. MP NIPPLE ON NORTH SIDE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 223.00 FEET.

HIGHEST WATER LEVEL 21.84 BELOW LSD, APR. 3, 1974,  
LOWEST WATER LEVEL 28.64 BELOW LSD, SEP. 18, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1973	24.08	SEP. 27, 1973	25.16	APR. 3, 1974	21.84	SEP. 18, 1975	28.64
APR. 3	23.74	OCT. 29	24.89	APR. 30	22.80	MAR. 10, 1976	25.98
MAY 4	22.73	MAR. 6, 1974	22.25	APR. 3, 1975	23.65		

10N02W08ABA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 226 FT ABOVE MSL. MP HOLE IN PUMP BASE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 226.00 FEET.

HIGHEST WATER LEVEL 13.62 BELOW LSD, MAY 15, 1973,  
LOWEST WATER LEVEL 16.12 BELOW LSD, SEP. 30, 1975.  
RECORDS AVAILABLE 1973, 1975-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 15, 1973	13.62	NOV. 6, 1973	15.69	APR. 3, 1975	14.54	MAR. 10, 1976	15.61
SEP. 26	15.41	DEC. 6	15.70	SEP. 30	16.12		

10N02W23CCD1. CLAY MILES. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 217 FT ABOVE MSL. MP TOP OF CASING, 0.80 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 217.00 FEET.

HIGHEST WATER LEVEL 10.39 BELOW LSD, APR. 4, 1974,  
LOWEST WATER LEVEL 13.87 BELOW LSD, SEP. 30, 1975.  
RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 16, 1973	27.21A	OCT. 29, 1973	12.94	APR. 4, 1974	10.39	SEP. 30, 1975	13.87
SEP. 27	13.21	DEC. 6	12.60	APR. 3, 1975	11.81		

A--PUMPING WATER LEVEL.

10N02W27BBB1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 224 FT ABOVE MSL. MP TOP OF CASING SOUTH SIDE, AT LSD.  
ALTITUDE OF LAND SURFACE 224.00 FEET.

HIGHEST WATER LEVEL 12.08 BELOW LSD, MAY 2, 1974,  
LOWEST WATER LEVEL 16.05 BELOW LSD, OCT. 25, 1972.  
RECORDS AVAILABLE 1969-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 11, 1969	16.00	MAR. 14, 1973	14.15	OCT. 29, 1973	14.02	MAY 2, 1974	12.08
APR. 1, 1970	15.07	APR. 3	13.81	DEC. 6	14.02	APR. 3, 1975	12.82
MAR. 31, 1971	14.35	MAY 15	13.03	MAR. 7, 1974	12.77	SEP. 30	14.17
MAR. 29, 1972	15.01	SEP. 27	14.11	APR. 4	12.45	MAR. 10, 1976	13.38
OCT. 25	16.05						

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

10N02W31DDA1. METHODIST CHURCH. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 22 FT. LSD 223 FT ABOVE MSL. MP TOP OF PITCHER, 2.90 FT ABOVE LSD.

ALTITUDE OF LAND SURFACE 223.00 FEET.

HIGHEST WATER LEVEL 2.28 BELOW LSD, APR. 25, 1973,

LOWEST WATER LEVEL 9.39 BELOW LSD, NOV. 6, 1973.

RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 25, 1973	2.28	DEC. 5, 1973	5.81	MAY 2, 1974	4.75	SEP. 17, 1975	9.32
SEP. 27	8.91	MAR. 6, 1974	4.64	APR. 3, 1975	3.38	MAR. 10, 1976	6.68
NOV. 6	9.39	APR. 4	5.86				

10N03W20BBA1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 38.2 FT. LSD 215 FT ABOVE MSL. MP TOP OF PIPE, 1.80 FT ABOVE LSD. WELL DESTROYED 04-03-75. ALTITUDE OF LAND SURFACE 215.00 FEET.

HIGHEST WATER LEVEL 0.09 BELOW LSD, APR. 25, 1973,

LOWEST WATER LEVEL 17.72 BELOW LSD, NOV. 6, 1973.

RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 3, 1973	3.44	SEP. 27, 1973	15.48	DEC. 6, 1973	2.97	APR. 4, 1974	7.14
APR. 25	0.09	NOV. 6	17.72	MAR. 6, 1974	6.03	MAY 2	7.63

10N03W33DAA1. TOBY McDONALD. DRILLED UNUSED IRRIGATION ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 210 FT ABOVE MSL. MP TOP OF CASING, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 210.00 FEET.

HIGHEST WATER LEVEL 3.03 BELOW LSD, APR. 25, 1973,

LOWEST WATER LEVEL 10.86 BELOW LSD, SEP. 27, 1973.

RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 16, 1973	3.63	SEP. 27, 1973	10.86	MAR. 6, 1974	4.56	APR. 3, 1975	3.48
APR. 3	4.13	NOV. 6	9.10	APR. 4	5.33	MAR. 10, 1976	6.40
APR. 25	3.03	DEC. 6	3.90	MAY 2	5.04		

10N03W34CCC1. McDONALD AND DUPREE. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN. LSD 206 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 206.00 FEET.

HIGHEST WATER LEVEL 4.46 BELOW LSD, NOV. 6, 1973,

LOWEST WATER LEVEL 10.50 BELOW LSD, SEP. 30, 1975.

RECORDS AVAILABLE 1973, 1975, 19

AUG. 16, 1973 30.99A, NOV. 6, 1973 4.46, SEP. 30, 1975 10.50.

A--PUMPING WATER LEVEL.

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

11N01W28ABA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 227 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, 0.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 227.00 FEET.

HIGHEST WATER LEVEL 22.36 BELOW LSD, MAY 15, 1973,  
LOWEST WATER LEVEL 28.83 BELOW LSD, SEP. 29, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 15, 1973	22.36	OCT. 29, 1973	24.98	APR. 3, 1974	22.40	SEP. 29, 1975	28.83
SEP. 26	25.40	MAR. 6, 1974	22.76	APR. 3, 1975	24.84	MAR. 10, 1976	26.74

11N02W09BBA1. DUG UNUSED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 72 IN. LSD 236 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 236.00 FEET.

HIGHEST WATER LEVEL 14.41 BELOW LSD, MAR. 11, 1976,  
LOWEST WATER LEVEL 17.78 BELOW LSD, NOV. 7, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 15, 1973	15.54	DEC. 6, 1973	15.72	APR. 30, 1974	15.72	SEP. 18, 1975	16.74
SEP. 27	17.07	MAR. 6, 1974	15.58	APR. 4, 1975	15.60	MAR. 11, 1976	14.41
NOV. 7	17.78	APR. 4	15.54				

11N02W12BBB1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 231 FT ABOVE MSL. MP TOP OF CASING, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 231.00 FEET.

HIGHEST WATER LEVEL 12.73 BELOW LSD, MAY 15, 1973,  
LOWEST WATER LEVEL 15.79 BELOW LSD, NOV. 7, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 15, 1973	12.73	DEC. 6, 1973	14.41	APR. 4, 1974	12.96	APR. 4, 1975	14.37
SEP. 26	14.23	MAR. 6, 1974	14.13	APR. 30	13.64	MAR. 11, 1976	15.34
NOV. 7	15.79						

11N02W29BBC1. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 29 FT. LSD 230 FT ABOVE MSL. MP TOP OF PITCHER, 1.90 FT ABOVE LSD. DESTROYED. ALTITUDE OF LAND SURFACE 230.00 FEET.

HIGHEST WATER LEVEL 18.19 BELOW LSD, MAY 2, 1974,  
LOWEST WATER LEVEL 20.33 BELOW LSD, APR. 4, 1974.  
RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 15, 1973	19.25	SEP. 26, 1973	19.21	DEC. 6, 1973	19.51	APR. 4, 1974	20.33
APR. 3	19.21	NOV. 6	19.49	MAR. 6, 1974	18.59	MAY 2	18.19
APR. 25	18.90						

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

12N02W25ABB1. DRILLED UNUSED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN. LSD 232 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 232.00 FEET.

HIGHEST WATER LEVEL 10.42 BELOW LSD, APR. 18, 1962,  
 LOWEST WATER LEVEL 18.14 BELOW LSD, APR. 28, 1955.  
 RECORDS AVAILABLE 1953-58, 1960-63, 1965-74, 19 .

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 22, 1953	15.06	APR. 19, 1961	11.24	MAR. 24, 1970	12.59	MAY 4, 1973	11.75
APR. 21, 1954	17.29	APR. 18, 1962	10.42	APR. 1	13.42	SEP. 26	13.07
APR. 28, 1955	18.14	APR. 17, 1963	11.64	MAR. 31, 1971	12.18	NOV. 6	12.88
APR. 18, 1956	18.10	APR. 14, 1965	12.99	MAR. 29, 1972	13.04	DEC. 6	13.48
APR. 16, 1957	13.82	MAR. 17, 1966	13.30	OCT. 25	13.87	MAR. 6, 1974	11.46
APR. 16, 1958	11.27	APR. 12, 1967	12.48	MAR. 15, 1973	12.50	APR. 4	11.41
APR. 5, 1960	11.43	APR. 9, 1968	12.14	APR. 3	12.09	APR. 30	10.99

12N02W25ABB2. R. D. WILMANS. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 232 FT ABOVE MSL. MP END OF DISCHARGE PIPE, 9.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 232.00 FEET.

HIGHEST WATER LEVEL 11.83 BELOW LSD, APR. 13, 1975,  
 LOWEST WATER LEVEL 14.58 BELOW LSD, SEP. 18, 1975.  
 RECORDS AVAILABLE 1975-76.  
 APR.13, 1975 11.83, SEP.18, 1975 14.58, MAR.10, 1976 12.74.

12N03W35BCA1. C. E. PARSLEY. DRILLED IRRIGATION ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 IN, DEPTH 95 FT. LSD 220 FT ABOVE MSL. MP TOP OF SURFACE CASING, AT LSD. ALTITUDE OF LAND SURFACE 220.00 FEET.

HIGHEST WATER LEVEL 0.87 BELOW LSD, MAR. 15, 1973,  
 LOWEST WATER LEVEL 18.55 BELOW LSD, MAR. 29, 1972.  
 RECORDS AVAILABLE 1970-74, 19 .  
 APR. 7, 1970 16.98, MAR.31, 1971 15.04, MAR.29, 1972 18.55, OCT.25, 1972 18.47,  
 MAR.15, 1973 0.87, APR. 1, 1974 4.97.

12N03W35CAC1. C. E. PARSLEY. DRILLED UNUSED IRRIGATION ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN. LSD 221 FT ABOVE MSL. MP TOP OF CASING, 2.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 221.00 FEET.

HIGHEST WATER LEVEL 3.50 ABOVE LSD, APR. 25, 1973,  
 LOWEST WATER LEVEL 16.84 BELOW LSD, SEP. 29, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1973	0.87	SEP. 26, 1973	12.85	MAR. 5, 1974	5.42	MAR. 24, 1975	1.39
APR. 3	1.32	OCT. 30	15.92	APR. 1	5.18	SEP. 29	16.84
APR. 25	+ 3.50	DEC. 4	1.30	APR. 30	6.00	MAR. 15, 1976	12.49
MAY 16	+ 0.81						

13N01W03ABA1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 22 FT. LSD 244 FT ABOVE MSL. MP TOP OF PITCHER, 2.90 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 244.00 FEET.

HIGHEST WATER LEVEL 12.88 BELOW LSD, APR. 26, 1973,  
 LOWEST WATER LEVEL 14.52 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973-74.  
 APR.26, 1973 12.88, SEP.27, 1973 14.52, NOV. 1, 1973 14.28, MAR. 5, 1974 12.99.



TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

13N01W06ABB1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 20 FT. LSD 246 FT ABOVE MSL. MP TOP OF PITCHER PUMP, 2.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 246.00 FEET.

HIGHEST WATER LEVEL 8.18 BELOW LSD, APR. 30, 1974,  
 LOWEST WATER LEVEL 10.77 BELOW LSD, SEP. 30, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1973	8.92	MAR. 5, 1974	8.48	APR. 30, 1974	8.18	SEP. 30, 1975	10.77
SEP. 27	9.57	APR. 2	8.55	MAR. 25, 1975	9.18	MAR. 16, 1976	10.07
NOV. 1	9.81						

13N01W20AAA1. CHARLES SUE. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN, DEPTH 147 FT. LSD 242 FT ABOVE MSL. MP HOLE IN PUMP BASE WEST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 242.00 FEET.

HIGHEST WATER LEVEL 11.29 BELOW LSD, MAR. 30, 1971,  
 LOWEST WATER LEVEL 15.48 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1957, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 16, 1957	15.15	MAR. 30, 1971	11.29	SEP. 27, 1973	14.07	MAY 1, 1974	11.63
APR. 12, 1967	13.13	MAR. 29, 1972	12.49	NOV. 1	15.48	MAR. 25, 1975	12.43
APR. 9, 1968	12.84	OCT. 27	12.96	MAR. 5, 1974	12.05	SEP. 30	15.31
MAR. 24, 1969	12.25	APR. 5, 1973	12.05	APR. 2	11.97	MAR. 16, 1976	14.99
APR. 7, 1970	12.45						

13N01W20BCD1. STACY. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN. LSD 243 FT ABOVE MSL. MP TOP OF HOLE IN PUMP BASE, 1.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 243.00 FEET.

HIGHEST WATER LEVEL 15.08 BELOW LSD, SEP. 27, 1973,  
 LOWEST WATER LEVEL 15.08 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973, 19  
 JULY 30, 1973 53.90A, SEP. 27, 1973 15.08.

A--PUMPING WATER LEVEL.

13N01W33ABC1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 241 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 241.00 FEET.

HIGHEST WATER LEVEL 11.50 BELOW LSD, APR. 2, 1974,  
 LOWEST WATER LEVEL 13.97 BELOW LSD, SEP. 30, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1973	12.56	SEP. 27, 1973	12.77	APR. 2, 1974	11.50	SEP. 30, 1975	13.97
APR. 3	12.33	NOV. 1	12.85	MAY 1	11.93	MAR. 16, 1976	12.55
MAY 4	11.69	MAR. 5, 1974	11.63	MAR. 25, 1975	12.12		

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

13N02W05DCB1. CHURCH OF CHRIST. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 251 FT ABOVE MSL. MP TOP OF PIPE, 2.10 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 251.00 FEET.

HIGHEST WATER LEVEL 9.08 BELOW LSD, MAY 16, 1973,  
 LOWEST WATER LEVEL 9.08 BELOW LSD, MAY 16, 1973.  
 RECORDS AVAILABLE 1973, 19  
 MAY 16, 1973 9.08.

13N02W06CUA1. JIM PICKARDS. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 247 FT ABOVE MSL. MP TOP OF PIPE, 2.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 247.00 FEET.

HIGHEST WATER LEVEL 19.01 BELOW LSD, APR. 1, 1974,  
 LOWEST WATER LEVEL 22.49 BELOW LSD, MAR. 16, 1976.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 30, 1973	21.99	MAR. 5, 1974	19.59	APR. 30, 1974	19.33	SEP. 30, 1975	21.86
DEC. 5	22.06	APR. 1	19.01	MAR. 24, 1975	21.35	MAR. 16, 1976	22.49

13N02W27ABB1. ABE JONES. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 120 FT. LSD 245 FT ABOVE MSL. MP HOLE IN WEST SIDE OF CASING, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 245.00 FEET.

HIGHEST WATER LEVEL 6.96 BELOW LSD, MAY 4, 1973,  
 LOWEST WATER LEVEL 12.24 BELOW LSD, SEP. 26, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1973	8.59	JULY 23, 1973	31.36A	OCT. 30, 1973	10.71	MAR. 5, 1974	8.43
APR. 3	7.98	SEP. 26	12.24	DEC. 4	9.84	MAR. 16, 1976	9.90
MAY 4	6.96						

A--PUMPING WATER LEVEL.

13N03W35AAA1. HOLT BROTHERS. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 21 FT. LSD 238 FT ABOVE MSL. MP TOP OF PIPE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 238.00 FEET.

HIGHEST WATER LEVEL 4.06 BELOW LSD, MAY 4, 1973,  
 LOWEST WATER LEVEL 7.73 BELOW LSD, OCT. 30, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 2, 1973	5.82	SEP. 26, 1973	7.36	MAR. 5, 1974	5.36	MAR. 24, 1975	5.18
MAR. 15	4.95	OCT. 30	7.73	APR. 1	5.40	SEP. 29	6.18
APR. 3	4.92	DEC. 4	5.64	APR. 30	5.17	MAR. 15, 1976	5.40
MAY 4	4.06						

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

14N01W10ABB1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 19 FT. LSD 251 FT ABOVE MSL. MP TOP OF PITCHER, 3.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 251.00 FEET.

HIGHEST WATER LEVEL 10.82 BELOW LSD, APR. 30, 1974,  
 LOWEST WATER LEVEL 14.10 BELOW LSD, SEP. 30, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 5, 1973	12.24	NOV. 1, 1973	12.33	APR. 30, 1974	10.82	SEP. 30, 1975	14.10
APR. 30	11.62	MAR. 5, 1974	10.99	MAR. 25, 1975	11.63	MAR. 16, 1976	12.44
SEP. 27	13.00	APR. 2	11.05				

14N01W13BBB1. JIM THOMAS. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 125 FT. LSD 245 FT ABOVE MSL. MP TOP END OF DISCHARGE PIPE, 6.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 245.00 FEET.

HIGHEST WATER LEVEL 12.57 BELOW LSD, JAN. 22, 1964,  
 LOWEST WATER LEVEL 18.85 BELOW LSD, OCT. 27, 1972.  
 RECORDS AVAILABLE 1955, 1963-65, 1970-72, 1974.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1955	16.08	MAY 16, 1964	14.43	MAR. 16, 1965	14.58	MAR. 30, 1971	18.25
NOV. 26, 1963	15.05	SEP. 16	17.35	MAY 18	14.19	MAR. 31, 1972	17.65
JAN. 22, 1964	12.57	NOV. 18	15.63	FEB. 20, 1970	17.88	OCT. 27	18.85
MAR. 18	14.35	JAN. 20, 1965	14.50	APR. 7	17.49		

14N01W26ABB1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 248 FT ABOVE MSL. MP TOP OF CASING ON WEST SIDE, AT LSD. ALTITUDE OF LAND SURFACE 248.00 FEET.

HIGHEST WATER LEVEL 16.41 BELOW LSD, APR. 30, 1974,  
 LOWEST WATER LEVEL 19.39 BELOW LSD, SEP. 30, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 23, 1973	34.07A	MAR. 5, 1974	16.85	APR. 30, 1974	16.41	SEP. 30, 1975	19.39
SEP. 27	18.19	APR. 2	16.55	MAR. 25, 1975	17.57	MAR. 16, 1976	18.20
NOV. 1	18.89						

A--PUMPING WATER LEVEL.

14N02W23BBB1. HERMAN HUNTER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 99 FT. LSD 251 FT ABOVE MSL. MP TOP OF OUTER CASING, AT LSD. ALTITUDE OF LAND SURFACE 251.00 FEET.

HIGHEST WATER LEVEL 17.73 BELOW LSD, APR. 1, 1974,  
 LOWEST WATER LEVEL 21.66 BELOW LSD, MAR. 16, 1976.  
 RECORDS AVAILABLE 1969, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 18, 1969	21.14A	SEP. 27, 1973	19.78	MAR. 5, 1974	18.13	MAR. 24, 1975	18.77
APR. 5, 1973	19.52	OCT. 30	19.67	APR. 1	17.73	SEP. 30	21.64
APR. 30	18.84	DEC. 5	19.50	APR. 30	18.50	MAR. 16, 1976	21.66

A--PUMPING WATER LEVEL.

TABLE 24.—MEASUREMENTS OF WATER LEVELS IN WELLS, JACKSON COUNTY, ARK.—CONTINUED

14N02W35AAA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD  
244 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 244.00 FEET.

HIGHEST WATER LEVEL 11.78 BELOW LSD, SEP. 26, 1973,  
LOWEST WATER LEVEL 11.78 BELOW LSD, SEP. 26, 1973.  
RECORDS AVAILABLE 1973, 19 .  
JULY 23, 1973 34.49A, SEP. 26, 1973 11.78.

A--PUMPING WATER LEVEL.

TABLE 25.--LOG OF TEST HOLES AND WELLS

JACKSON COUNTY, ARKANSAS

353857091032101. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 21, 1975  
 LAND SURFACE ALTITUDE 226 FT.

LOCATION: 12N01W25BBB1.

	THICKNESS (FEET)	DEPTH (FEET)
QUATERNARY DEPOSITS:		
SAND, FINE, SILTY, YELLOWISH-GRAY -----	12.0	12.0
SILT, SANDY, YELLOWISH-GRAY -----	2.0	14.0
SAND, FINE, SILTY, GREENISH-GRAY-----	9.0	23.0
SAND, FINE TO MEDIUM; CONTAINS SOME LIGNITIC FRAGMENTS -----	23.0	46.0
SAND, MEDIUM-----	11.0	57.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVELS; CONTAINS SOME CALCITIC GRAINS -----	39.0	96.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS -----	12.0	108.0
GRAVEL, PEBBLY -----	2.0	110.0
TERTIARY DEPOSITS:		
SAND, FINE, SILTY, GLAUCONTIC, GREENISH- GRAY-----	11.0	121.0

TABLE 25.--LOG OF TEST HOLES AND WELLS--CONTINUED  
 JACKSON COUNTY, ARKANSAS

354334091111801. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 21, 1975  
 LAND SURFACE ALTITUDE 241 FT.

LOCATION: 13N02W34ABB1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	2.0	2.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, MOTTLED YELLOW AND GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS -----	3.0	5.0
SAND, FINE, SILTY, YELLOWISH-GRAY; CONTAINS SOME CALCITIC GRAINS-----	9.0	14.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS AND LIGNITIC FRAGMENTS -----	9.0	23.0
SAND, FINE; CONTAINS SOME CALCITIC GRAINS ----	29.0	52.0
SAND, FINE TO MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	10.0	62.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS -----	26.0	88.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS -----	4.0	92.0
SILT(?), NO SAMPLE RECOVERY -----	4.0	96.0
GRAVEL, SANDY; CONTAINS SOME CALCITIC GRAINS----	18.0	114.0
TERTIARY DEPOSITS:		
CLAY, CALCAREOUS, DARK GRAY -----	7.0	121.0

TABLE 25.—LOG OF TEST HOLES AND WELLS--CONTINUED

JACKSON COUNTY, ARKANSAS

354459091161101. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 20, 1975  
 LAND SURFACE ALTITUDE 241 FT.

LOCATION: 13N03W23ADD1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
SAND, FINE, SILTY, REDDISH-GRAY -----	11.0	12.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	7.0	19.0
SAND, FINE, TO MEDIUM-----	14.0	33.0
SAND, MEDIUM; CONTAINS SOME CALCITIC GRAINS ----	33.0	66.0
SAND, MEDIUM TO COARSE; CONTAINS SOME CALCITIC GRAINS AND SOME LIGNITIC FRAGMENTS -----	22.0	88.0
SAND, COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS -----	12.0	100.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	10.0	110.0
TERTIARY(?) DEPOSITS:		
CLAY, CALCAREOUS, GREENISH-GRAY -----	6.0	116.0

TABLE 26.—CHEMICAL ANALYSES OF GROUND WATER, JACKSON COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	SAMPLE NUMBER	TEMPERATURE (DEG C)	FLOW RATE (GPM)
352527091134701	067	09N02W08BCC1	GW	112TRRC	74-06-27	--	--	16.5	2180
352822091192401	067	10N03W29AAD1	GW	111ALVM	73-08-01	--	--	16.5	--
352823091064401	067	10N01W29AAA1	GW	111ALVM	74-06-27	--	--	16.4	1200
352829091112701	067	10N02W22CCD1	GW	112TRRC	74-08-14	--	--	16.5	1100
353616091162801	067	11N03W11ABD1	GW	112TRRC	74-06-27	--	750649	16.5	900
353628091092501	067	11N02W12BBB1	GW	112TRRC	74-09-04	--	--	17.0	--
353800091170601	067	12N03W35BCA1	GW	111ALVM	74-06-26	95	--	16.5	1200
354425091111601	067	13N02W27ABB1	GW	111ALVM	74-07-10	--	--	16.5	1250
	067		GW	112TRRC	73-07-23	--	--	16.5	1670
	067		GW	112TRRC	74-07-11	--	--	16.0	1670
354513091062501	067	13N01W20AAA1	GW	112TRRC	64-05-26	--	--	16.7	--
355035091103401	067	14N02W23BBB1	GW	112TRRC	74-06-28	--	--	16.0	1300
355052091033201	067	14N01W14DDB1	GW	112TRRC	74-07-11	99	--	16.0	1080
	067		GW	112TRRC	74-06-28	80	--	15.5	1300

STATION NUMBER	DATE OF SAMPLE	COLOR (PLAT-INUM-COBALT UNITS)	SPE-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CAC03 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL NITROGEN (N) (MG/L)
352527091134701	74-06-27	4	253	7.5	6.9	112	137	0	--	--	--
352822091192401	73-08-01	--	390	--	--	--	--	--	--	--	--
352823091064401	74-06-27	2	315	7.0	28	146	178	0	--	--	--
352829091112701	74-08-14	50	473	7.0	45	229	279	0	--	--	--
	74-06-27	2	446	7.4	17	215	262	0	--	--	--
353616091162801	74-09-04	--	253	7.2	13	105	128	0	170	2	0.28
353628091092501	74-06-26	4	426	7.5	13	213	260	0	--	--	--
353800091170601	74-07-10	8	251	7.2	14	112	137	0	--	--	--
354425091111601	73-07-23	--	600	--	--	--	--	--	--	--	--
	74-07-11	1	570	7.5	15	244	298	0	--	--	--
354513091062501	64-05-26	1	420	78.0	0	209	255	0	--	--	--
	74-06-28	2	403	7.2	25	207	252	0	--	--	--
355035091103401	74-07-11	3	466	7.3	21	219	267	0	--	--	--
355052091033201	74-06-28	5	326	7.3	15	154	188	0	--	--	--



TABLE 26.--CHEMICAL ANALYSES OF GROUND WATER, JACKSON COUNTY, ARK.--CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CADMIUM (CD) (UG/L)	DIS- SOLVED CHROMIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
352527091134701	74-06-27	40	--	--	--	--	--	3800	--	1100	--
352822091192401	73-08-01	--	--	--	--	--	--	--	--	--	--
	74-06-27	18	--	--	--	--	--	20000	--	1000	--
352823091064401	74-08-14	34	--	--	--	--	--	4300	--	360	--
352829091112701	74-06-27	41	--	--	--	--	--	2900	--	1500	--
353616091162801	74-09-04	42	1	0	0	0	2	2700	0	1400	10
353628091092501	74-06-26	39	--	--	--	--	--	3800	--	1100	--
353800091170601	74-07-10	38	--	--	--	--	--	4500	--	1200	--
354425091111601	73-07-23	--	--	--	--	--	--	--	--	--	--
	74-07-11	39	--	--	--	--	--	2800	--	1200	--
354513091062501	64-05-26	38	--	--	--	--	--	3800	--	700	--
	74-06-28	40	--	--	--	--	--	3700	--	770	--
355035091103401	74-07-11	41	--	--	--	--	--	4100	--	1200	--
355052091033201	74-06-28	37	--	--	--	--	--	2600	--	490	--

STATION NUMBER	DATE OF SAMPLE	DIS- SOLVED SELENIUM (SE) (UG/L)	DIS- SOLVED GROSS BETA AS (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)
352527091134701	74-06-27	--	--	--	--	168	181	.23	--	--	--
352822091192401	73-08-01	--	--	--	--	--	--	--	--	--	--
	74-06-27	--	--	--	--	166	200	.23	--	--	--
352823091064401	74-08-14	--	--	--	--	275	288	.37	--	--	--
352829091112701	74-06-27	--	--	--	--	266	286	.36	--	--	--
353616091162801	74-09-04	1	2.3	<.4	.06	172	171	.23	--	--	1.2
353628091092501	74-06-26	--	--	--	--	253	274	.34	--	--	--
353800091170601	74-07-10	--	--	--	--	169	178	.23	.09	.03	--
354425091111601	73-07-23	--	--	--	--	--	--	--	--	--	--
	74-07-11	--	--	--	--	362	366	.49	.18	.00	--
354513091062501	64-05-26	--	--	--	--	263	265	--	.10	--	--
	74-06-28	--	--	--	--	241	265	.33	--	--	--
355035091103401	74-07-11	--	--	--	--	285	298	.39	.09	.03	--
355052091033201	74-06-28	--	--	--	--	191	213	.26	--	--	--

TABLE 26.—CHEMICAL ANALYSES OF GROUND WATER, JACKSON COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL SULFIDE (S) (MG/L)	HARDNESS (CA, MG) (MG/L)
352527091134701	74-06-27	--	--	--	--	--	--	.00	--	--	110
352822091192401	73-08-01	--	--	--	--	--	--	--	--	--	--
	74-06-27	--	--	--	--	--	--	.00	--	--	140
352823091064401	74-08-14	--	--	--	--	--	--	.02	.42	--	200
35282909112701	74-06-27	--	--	--	--	--	--	.00	.35	--	220
353616091162801	74-09-04	--	.00	--	.08	2.0	.08	.01	.28	--	100
353628091092501	74-06-26	--	--	--	--	--	--	.00	.34	.7	190
353800091170601	74-07-10	.01	--	.02	--	--	--	.03	--	.2	110
35442509111601	73-07-23	--	--	--	--	--	--	--	--	--	--
	74-07-11	.00	--	.04	--	--	--	.04	--	--	270
354513091062501	64-05-26	--	--	.02	--	--	--	--	--	--	200
	74-06-28	--	--	--	--	--	--	.01	--	--	190
355035091103401	74-07-11	.01	--	.02	--	--	--	.03	--	--	220
355052091033201	74-06-28	--	--	--	--	--	--	.05	--	--	140

STATION NUMBER	DATE OF SAMPLE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
352527091134701	74-06-27	2	34	7.2	6.7	.3	11	1.3	3.4	16	.2
352822091192401	73-08-01	--	--	--	--	--	--	--	--	--	--
	74-06-27	0	36	11	11	.4	15	1.0	11	3.0	.1
352823091064401	74-08-14	0	53	17	18	.6	16	1.6	10	12	.2
35282909112701	74-06-27	1	65	13	9.4	.3	9	1.7	7.8	14	.2
353616091162801	74-09-04	0	30	7.0	8.7	.4	15	1.9	4.2	10	.1
353628091092501	74-06-26	0	58	12	15	.5	14	2.6	4.3	10	.2
353800091170601	74-07-10	0	33	7.0	7.9	.3	13	2.0	4.5	12	.1
35442509111601	73-07-23	--	--	--	--	--	--	--	--	--	--
	74-07-11	24	78	18	18	.5	13	1.9	6.4	53	.3
354513091062501	64-05-26	0	57	14	12	.4	11	2.1	4.5	7.0	.2
	74-06-28	0	56	12	14	.4	14	1.7	4.0	8.4	.2
355035091103401	74-07-11	4	68	13	9.7	.3	9	1.8	11	16	.3
355052091033201	74-06-28	0	39	10	15	.6	19	1.4	8.2	6.2	.2

TABLE 26.—CHEMICAL ANALYSES OF GROUND WATER, JACKSON COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED		DIS-SOLVED		DIS-SOLVED		DIS-SOLVED		DIS-SOLVED	
		MERCURY (HG) (UG/L)	URANIUM (U) (UG/L)	ALPHA AS (UG/L)	ALPHA AS (UG/L)	ALPHA AS (UG/L)	ALPHA AS (UG/L)	ALPHA AS (UG/L)	ALPHA AS (UG/L)	BETA AS SR90 (PC/L)	BETA AS SR90 (PC/L)
352527091134701	74-06-27	--	--	--	--	--	--	--	--	--	--
352822091192401	73-08-01	--	--	--	--	--	--	--	--	--	--
	74-06-27	--	--	--	--	--	--	--	--	--	--
352823091064401	74-08-14	--	--	--	--	--	--	--	--	--	--
352829091112701	74-06-27	--	--	--	--	--	--	--	--	--	--
353616091162801	74-09-04	.0	.03	1.9	<.4	<.4	2.0	<.4	2.0	<.4	<.4
353628091092501	74-06-26	--	--	--	--	--	--	--	--	--	--
353800091170601	74-07-10	--	--	--	--	--	--	--	--	--	--
354425091111601	73-07-23	--	--	--	--	--	--	--	--	--	--
	74-07-11	--	--	--	--	--	--	--	--	--	--
354513091062501	64-05-26	--	--	--	--	--	--	--	--	--	--
	74-06-28	--	--	--	--	--	--	--	--	--	--
355035091103401	74-07-11	--	--	--	--	--	--	--	--	--	--
355052091033201	74-06-28	--	--	--	--	--	--	--	--	--	--

TABLE 27.—RECORDS OF TEST HOLES AND WELLS IN LAWRENCE COUNTY, ARK.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
15N01E01BBB1	355815090562801	Tom Dodd	W	112TRRC	256	---	U	---	---	---	---	---	L
15N01E04BAR1	355819090585601	R. S. Rainwater	W	112TRRC	256	120	I	16.0	470	7-30-73	1,501	7-30-73	L
15N01E05RDB1	355804091003001	Allen Morrison	W	112TRRC	257	120	I	15.5	520	6-25-74	1,500	6-25-74	L, O,
15N01E23DDA1	355500090564201	---	W	112TRRC	250	---	I	16.5	540	8-3-73	1,725	8-3-73	L
15N01W03DDA1	3558832091043501	Lance Phillips	W	112TRRC	---	100	I	16.0	476	7-11-74	625	7-11-74	Q
15N01W11DDO1	355643091025701	O. A. Foster	W	112TRRC	256	---	I	16.0	470	7-25-73	---	---	L
15N01W5ORA1	355510091074201	Methodist Church	W	112TRRC	257	---	H	---	---	---	---	---	L
15N02W25CBA1	3554440091091001	M. J. Mosley	W	112TRRC	242	---	U	---	---	---	---	---	L
16N01E03DDB1	360249090574101	J. M. Johnson	W	112TRRC	264	110	I	15.5	511	6-25-74	1,100	6-25-74	L, O,
16N01E03DDB2	360251090574401	---	T	112TRRC	246	177	U	---	---	---	---	---	L
16N01E13CDB1	360106090561001	---	W	112TRRC	263	---	I	16.0	550	7-27-73	1,294	7-27-73	L
16N01E25CCD1	355910090561401	---	W	112TRRC	257	---	I	16.5	500	8-2-73	950	8-2-73	L
16N01E34CDD1	3558821090580901	M. W. Strong	W	112TRRC	254	120	I	15.5	544	6-25-74	900	6-25-74	L
16N01W13CCD1	360107091023501	Neece	W	111AVM	254	---	U	---	---	---	---	---	L
16N01W14KCD1	360108091031001	Neece	W	112TRRC	251	31	U	---	---	---	---	---	L
16N01W32ADC1	355911091061601	Weaver	W	111AVM	251	26	U	---	---	---	---	---	L
16N01W32ADC2	355909091061801	Weaver	W	111AVM	251	46	H	---	---	---	---	---	L
16N02E28CAA1	355926090525201	---	W	112TRRC	262	54	U	---	---	---	---	---	L
16N02E34AAC1	355845090512701	---	W	111AVM	263	---	I	---	---	---	---	---	L
17N01E13BAD1	360651090555601	Floyd Forester	W	112TRRC	273	90	I	15.5	1,030	6-26-74	850	6-26-74	Q
17N01E22AAA1	360612090572601	---	W	112TRRC	270	38	U	---	---	---	---	---	L
17N01E31DRA1	360407091010801	---	T	112TRRC	260	136	U	---	---	---	---	---	L
17N01W21CWA1	360548091052801	---	T	111AVM	255	61	U	---	---	---	---	---	G
17N01W24CC1	360533091024101	---	W	111AVM	258	15	U	---	---	---	---	---	G
17N02E02ABR1	360859090022501	Oscar Gentry	W	112TRRC	271	---	U	---	---	---	---	---	L
17N02E28ABR1	360510090523901	---	W	112TRRC	269	---	I	16.0	530	7-27-73	1,516	7-27-73	L
17N02E30RBA1	360514090550701	---	W	112TRRC	267	---	I	16.0	460	7-27-73	1,668	7-27-73	L
17N02E30DCC1	360423090544501	---	W	111AVM	266	46	U	---	---	---	---	---	L
17N03E17BRA1	360645090473801	---	W	111AVM	262	---	I	15.5	460	8-1-73	1,501	8-1-73	L

Type of site: T, test hole; W, well.

Principal aquifer: 111AVM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.

Use of water: H, domestic; I, irrigation; U, unused.

Remarks: G, lithologic log included in report, see table 29; L, water-level measurements included in report, see table 28; Q, chemical analyses of water included in report, see table 30.

TABLE 28.—MEASUREMENTS OF WATER LEVELS IN WELLS, LAWRENCE COUNTY, ARK.

15N01E018881. TOM DODD. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 256 FT ABOVE MSL. MP TOP OF PITCHER, 3.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 256.00 FEET.

HIGHEST WATER LEVEL 19.74 BELOW LSD, APR. 26, 1973,  
 LOWEST WATER LEVEL 20.44 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973, 19 .  
 APR.26, 1973 19.74, SEP.27, 1973 20.44, NOV. 1, 1973 19.93.

15N01E04ABA1. H. S. RAINWATER. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 120 FT. LSD 256 FT ABOVE MSL. MP TOP OF CASING, 0.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 256.00 FEET.

HIGHEST WATER LEVEL 24.76 BELOW LSD, SEP. 27, 1973,  
 LOWEST WATER LEVEL 24.76 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973, 19 .  
 JULY30, 1973 38.70A, SEP.27, 1973 24.76.

A--PUMPING WATER LEVEL

15N01E05BDB1. ALLEN MORRISON. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN, DEPTH 120 FT. LSD 257 FT ABOVE MSL. MPTOP OF CASING, 0.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 257.00 FEET.

HIGHEST WATER LEVEL 20.32 BELOW LSD, APR. 30, 1974,  
 LOWEST WATER LEVEL 22.34 BELOW LSD, SEP. 30, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1973	21.88	MAR. 8, 1974	20.68	APR. 30, 1974	20.32	SEP. 30, 1975	22.34
NOV. 1	21.62	APR. 1	20.38	MAR. 24, 1975	20.80	MAR. 16, 1976	21.50

15N01E23DDA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 250 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 250.00 FEET.

HIGHEST WATER LEVEL 15.41 BELOW LSD, APR. 3, 1974,  
 LOWEST WATER LEVEL 17.60 BELOW LSD, MAR. 16, 1976.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 3, 1973	33.00A	MAR. 8, 1974	15.49	MAY 1, 1974	16.13	OCT. 1, 1975	16.92
SEP. 27	15.69	APR. 3	15.41	MAR. 25, 1975	16.00	MAR. 16, 1976	17.60
NOV. 1	16.33						

A--PUMPING WATER LEVEL.

15N01W11DDD1. O. A. FOSTER. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN. LSD 256 FT ABOVE MSL. MP TOP OF HOLE NORTH SIDE, REMOVE PLUG, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 256.00 FEET.

HIGHEST WATER LEVEL 14.85 BELOW LSD, APR. 21, 1954,  
 LOWEST WATER LEVEL 19.44 BELOW LSD, SEP. 30, 1975.  
 RECORDS AVAILABLE 1954, 1956, 1958, 1960-63, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 21, 1954	14.85	APR. 14, 1965	18.13	MAR. 30, 1971	17.50	MAR. 5, 1974	17.41
APR. 18, 1956	18.02	MAR. 17, 1966	18.16	APR. 6, 1972	17.98	APR. 1	16.55
APR. 16, 1958	17.70	APR. 12, 1967	17.55	OCT. 27	18.83	APR. 30	16.48
APR. 5, 1960	17.26	JUNE 2	17.98	APR. 5, 1973	17.23	MAR. 24, 1975	17.30
APR. 19, 1961	17.16	APR. 9, 1968	17.75	APR. 30	16.80	SEP. 30	19.44
APR. 18, 1962	17.23	MAR. 21, 1969	17.92	SEP. 27	17.95	MAR. 16, 1976	18.20
APR. 12, 1963	17.81	APR. 8, 1970	18.18	NOV. 1	17.66		

TABLE 28.—MEASUREMENTS OF WATER LEVELS IN WELLS, LAWRENCE COUNTY, ARK.—CONTINUED

15N01W30BAA1. STRANGERS HOME METHODIST CHURCH. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 257 FT ABOVE MSL. MP TOP OF PITCHER, 2.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 257.00 FEET.

HIGHEST WATER LEVEL 12.87 BELOW LSD, MAR. 17, 1976,  
 LOWEST WATER LEVEL 21.66 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1973	21.66	MAR. 5, 1974	19.58	APR. 30, 1974	20.35	SEP. 30, 1975	13.16
DEC. 5	20.88	APR. 1	20.35	MAR. 24, 1975	20.69	MAR. 17, 1976	12.87

15N02W25CBA1. M. J. MOSELY. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 242 FT ABOVE MSL. MP TOP OF PITCHER, 3.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 242.00 FEET.

HIGHEST WATER LEVEL 5.43 BELOW LSD, MAY 16, 1973,  
 LOWEST WATER LEVEL 5.43 BELOW LSD, MAY 16, 1973.  
 RECORDS AVAILABLE 1973, 1973.  
 MAY 16, 1973 5.43.

16N01E03DDB1. J. M. JOHNSON. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 110 FT. LSD 264 FT ABOVE MSL. MP END OF DISCHARGE PIPE, 12.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 264.00 FEET.

HIGHEST WATER LEVEL 19.32 BELOW LSD, APR. 30, 1974,  
 LOWEST WATER LEVEL 23.78 BELOW LSD, APR. 9, 1968.  
 RECORDS AVAILABLE 1960-63, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 5, 1960	20.59	MAR. 21, 1969	20.10	MAR. 23, 1973	20.09	APR. 1, 1974	19.39
APR. 19, 1961	20.60	APR. 25	19.90	APR. 5	19.97	APR. 30	19.32
APR. 18, 1962	20.39	APR. 8, 1970	20.09	APR. 30	19.65	MAR. 25, 1975	19.65
APR. 17, 1963	21.53	MAR. 29, 1971	21.25	SEP. 27	20.64	OCT. 1	22.20
APR. 12, 1967	23.38	APR. 6, 1972	19.95	NOV. 1	20.37	MAR. 16, 1976	20.83
APR. 9, 1968	23.78	OCT. 27	20.64	MAR. 8, 1974	19.73		

16N01E13CBD1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 263 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 263.00 FEET.

HIGHEST WATER LEVEL 20.29 BELOW LSD, NOV. 1, 1973,  
 LOWEST WATER LEVEL 20.66 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973, 1973.  
 JULY 27, 1973 53.20A, SEP. 27, 1973 20.66, NOV. 1, 1973 20.29.

A--PUMPING WATER LEVEL.

16N01E25CCD1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 257 FT ABOVE MSL. MP TOP OF PIT CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 257.00 FEET.

HIGHEST WATER LEVEL 17.97 BELOW LSD, APR. 30, 1974,  
 LOWEST WATER LEVEL 20.99 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 2, 1973	30.59A	MAR. 8, 1974	18.32	APR. 30, 1974	17.97	OCT. 1, 1975	20.99
SEP. 27	19.28	APR. 1	18.05	MAR. 25, 1975	18.75	MAR. 16, 1976	20.86
NOV. 1	19.02						

A--PUMPING WATER LEVEL.

TABLE 28.—MEASUREMENTS OF WATER LEVELS IN WELLS, LAWRENCE COUNTY, ARK.—CONTINUED

16N01W13CCD1. NEECE. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 254 FT ABOVE MSL. MP TOP OF PIPE, 2.30 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 254.00 FEET.

HIGHEST WATER LEVEL 7.18 BELOW LSD, MAY 16, 1973,  
 LOWEST WATER LEVEL 7.18 BELOW LSD, MAY 16, 1973.  
 RECORDS AVAILABLE 1973.  
 MAY 16, 1973 7.18.

16N01W14DCD1. NEECE. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 30.5 FT. LSD 251 FT ABOVE MSL. MP TOP OF PIPE, 2.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 251.00 FEET.

HIGHEST WATER LEVEL 3.28 BELOW LSD, MAR. 24, 1975,  
 LOWEST WATER LEVEL 6.91 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 27, 1973	6.56	MAR. 5, 1974	3.80	APR. 30, 1974	3.92	SEP. 30, 1975	6.35
NOV. 1	6.91	APR. 1	3.84	MAR. 24, 1975	3.28	MAR. 16, 1976	4.57
DEC. 5	4.80						

16N01W32ADC1. WEAVER. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 26 FT. LSD 251 FT ABOVE MSL. MP TOP OF PIPE, 2.00 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 251.00 FEET.

HIGHEST WATER LEVEL 3.60 BELOW LSD, MAY 16, 1973,  
 LOWEST WATER LEVEL 3.60 BELOW LSD, MAY 16, 1973.  
 RECORDS AVAILABLE 1973.  
 MAY 16, 1973 3.60.

16N01W32ADC2. WEAVER. DRIVEN DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 2 IN, DEPTH 46 FT. LSD 251 FT ABOVE MSL. MP TOP OF PIPE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 251.00 FEET.

HIGHEST WATER LEVEL 9.07 BELOW LSD, SEP. 27, 1973,  
 LOWEST WATER LEVEL 9.07 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973, 19 .  
 SEP. 27, 1973 9.07.

16N02E28CAA1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 54 FT. LSD 262 FT ABOVE MSL. MP TOP OF PIPE, 0.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 262.00 FEET.

HIGHEST WATER LEVEL 15.35 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 15.35 BELOW LSD, MAY 17, 1973.  
 RECORDS AVAILABLE 1973, 19 .  
 MAY 17, 1973 15.35.

16N02E34AAC1. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN. LSD 263 FT ABOVE MSL. MP TOP END OF DISCHARGE PIPE, 8.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 263.00 FEET.

HIGHEST WATER LEVEL 16.79 BELOW LSD, MAR. 7, 1974,  
 LOWEST WATER LEVEL 20.05 BELOW LSD, NOV. 6, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1973	19.67	MAR. 7, 1974	16.79	MAY 1, 1974	17.83	OCT. 1, 1975	19.10
NOV. 6	20.05	APR. 3	17.65	MAR. 26, 1975	16.85	MAR. 17, 1976	17.73

TABLE 28.—MEASUREMENTS OF WATER LEVELS IN WELLS, LAWRENCE COUNTY, ARK.—CONTINUED

17N01E22AAA1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 38 FT. LSD 270 FT ABOVE MSL. MP TOP OF PIPE, 0.60 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 270.00 FEET.

HIGHEST WATER LEVEL 0.0 ABOVE LSD, APR. 4, 1974,  
 LOWEST WATER LEVEL 13.08 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 22, 1973	11.91	APR. 30, 1973	9.95	NOV. 2, 1973	13.08	MAR. 6, 1974	11.72
APR. 4	11.52	SEP. 28	12.65	DEC. 5	12.67		

17N01W24CCC1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 15 FT. LSD 258 FT ABOVE MSL. MP TOP OF PIPE, 3.90 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 258.00 FEET.

HIGHEST WATER LEVEL 4.27 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 8.95 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-74.  
 MAY 17, 1973 4.27, SEP. 27, 1973 8.45, NOV. 2, 1973 8.95, DEC. 5, 1973 5.57,  
 MAR. 5, 1974 5.41.

17N02E02ABB1. OSCAR GENTRY. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 271 FT ABOVE MSL. MP TOP OF PIPE, 2.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 271.00 FEET.

HIGHEST WATER LEVEL 13.92 BELOW LSD, MAY 2, 1974,  
 LOWEST WATER LEVEL 15.60 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1973-74, 19 .  
 MAY 17, 1973 14.74, OCT. 2, 1973 15.60, NOV. 7, 1973 15.37, MAR. 6, 1974 14.35,  
 APR. 3, 1974 14.07, MAY 2, 1974 13.92.

17N02E28ABB1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 269 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 269.00 FEET.

HIGHEST WATER LEVEL 19.11 BELOW LSD, NOV. 6, 1973,  
 LOWEST WATER LEVEL 19.34 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1973, 19 .  
 JULY 27, 1973 61.20A, OCT. 2, 1973 19.34, NOV. 6, 1973 19.11.

A--PUMPING WATER LEVEL.

17N02E30BBA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 267 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 267.00 FEET.

HIGHEST WATER LEVEL 16.35 BELOW LSD, MAY 2, 1974,  
 LOWEST WATER LEVEL 19.29 BELOW LSD, MAR. 16, 1976.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 27, 1973	34.49A	NOV. 6, 1973	17.76	APR. 3, 1974	16.50	SEP. 30, 1975	18.90
OCT. 2	18.32	MAR. 7, 1974	16.86	MAY 2	16.35	MAR. 16, 1976	19.29

A--PUMPING WATER LEVEL.



TABLE 28.—MEASUREMENTS OF WATER LEVELS IN WELLS, LAWRENCE COUNTY, ARK.—CONTINUED

17N02E30DCC1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 46 FT. LSD 266 FT ABOVE MSL. MP TOP OF PITCHER, 2.90 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 266.00 FEET.

HIGHEST WATER LEVEL 17.50 BELOW LSD, APR. 30, 1973,  
 LOWEST WATER LEVEL 17.94 BELOW LSD, MAR. 23, 1973.  
 RECORDS AVAILABLE 1973, 19 .  
 MAR.23, 1973 17.94, APR. 5, 1973 17.89, APR.30, 1973 17.50.

17N03E17BBA1. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 262 FT ABOVE MSL. MP TOP OF CASING, 0.70 FT ABOVE LSD.  
 ALTITUDE OF LAND SURFACE 262.00 FEET.

HIGHEST WATER LEVEL 6.66 BELOW LSD, MAR. 7, 1974,  
 LOWEST WATER LEVEL 11.13 BELOW LSD, NOV. 7, 1973.  
 RECORDS AVAILABLE 1973-74, 19 .  
 AUG. 1, 1973 34.28A, OCT. 2, 1973 10.52, NOV. 7, 1973 11.13, MAR. 7, 1974 6.66.

A—PUMPING WATER LEVEL.

TABLE 29.—LOG OF TEST HOLES AND WELLS

LAWRENCE COUNTY, ARKANSAS

360251090574401. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 23, 1975  
 LAND SURFACE ALTITUDE 264 FT.

LOCATION: 16N01E03DDB2.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, CALCAREOUS, BROWNISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	7.0	8.0
SILT, CLAYEY, LIGHT GRAY; CONTAINS SOME CALCITIC GRAINS -----	6.0	14.0
SAND, FINE, SILTY, YELLOWISH-GRAY; CONTAINS SOME CALCITIC GRAINS -----	7.0	21.0
SAND, FINE -----	11.0	32.0
SAND, FINE TO MEDIUM, DARK GRAY; CONTAINS SOME CALCITIC GRAINS AND LIGNITIC FRAGMENTS -----	38.0	70.0
SAND, MEDIUM TO COARSE; CONTAINS SOME CALCITIC GRAINS -----	6.0	76.0
SAND, COARSE TO VERY COARSE, SOME FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS -----	23.0	99.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	41.0	140.0
GRAVEL, SANDY -----	23.0	163.0
CRETACEOUS(?) DEPOSITS:		
CLAY, SILTY, CALCAREOUS, GREENISH-GRAY; CONTAINS SOME PYRITIC SPECKS-----	14.0	177.0

TABLE 29.--LOG OF TEST HOLES AND WELLS--CONTINUED

LAWRENCE COUNTY, ARKANSAS

360407091010801. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 23, 1975  
 LAND SURFACE ALTITUDE 260 FT.

LOCATION: 17N01E31DBA1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	2.0	2.0
QUATERNARY DEPOSITS:		
SAND, FINE, SILTY, YELLOWISH-GRAY -----	10.0	12.0
SAND, FINE, SILTY, LIGNITIC, DARK GRAY; CONTAINS SOME CALCITIC GRAINS -----	8.0	20.0
SAND, FINE TO MEDIUM;. CONTAINS SOME CALCITIC GRAINS -----	14.0	34.0
SAND, MEDIUM TO COARSE -----	26.0	60.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL -----	10.0	70.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	40.0	110.0
GRAVEL, PEBBLY -----	11.0	121.0
CRETACEOUS(?) DEPOSITS:		
CLAY, DARK GRAY, INTERBEDDED WITH FINE, SILTY SAND; CONTAINS SOME GLAUCONITIC GRAINS AND PYRITIC SPECKS -----	15.0	136.0

TABLE 29.--LOG OF TEST HOLES AND WELLS--CONTINUED

LAWRENCE COUNTY, ARKANSAS

360548091052801. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 24, 1975  
 LAND SURFACE ALTITUDE 255 FT.

LOCATION: 17N01W21CDA1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	1.0	1.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS --	8.0	9.0
SAND, FINE TO COARSE, GRAVELLY -----	1.0	10.0
SAND, FINE, SILTY, REDDISH-GRAY -----	10.0	20.0
SAND, FINE TO MEDIUM-----	10.0	30.0
SAND, MEDIUM TO COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME LIGNITIC FRAGMENTS -----	13.0	43.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	5.0	48.0
GRAVEL, SANDY -----	9.0	57.0
CRETACEOUS(?) DEPOSITS:		
NO SAMPLE; DRILLING CHARACTERISTIC OF CONSOLIDATED ROCK; AUGER STEM BROKE NEAR BOTTOM OF HOLE -----	4.0	61.0

TABLE 30.—CHEMICAL ANALYSES OF GROUND WATER, LAWRENCE COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
355804091003001	075	15N01E05BDB1	GW	112TRRC	74-06-25	120	15.5	1500	2
355821090580901	075	16N01E34CDD1	GW	112TRRC	74-06-25	120	15.5	900	2
355832091043501	075	15N01W03BAB1	GW	112TRRC	74-07-11	100	16.0	625	5
360249090574101	075	16N01E03DD81	GW	112TRRC	74-06-25	110	15.5	1100	2
360651090555601	075	17N01E13BAD1	GW	112TRRC	74-06-26	90	15.5	850	2

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
355804091003001	74-06-25	520	7.5	16	260	317	0	--	--	.12	.21
355821090580901	74-06-25	544	7.5	17	276	337	0	--	--	.19	.18
355832091043501	74-07-11	476	7.2	26	214	261	0	.00	.03	.03	--
360249090574101	74-06-25	511	7.5	14	220	268	0	--	--	.00	--
360651090555601	74-06-26	1030	6.8	76	244	298	0	--	--	.01	.44

TABLE 30.--CHEMICAL ANALYSES OF GROUND WATER, LAWRENCE COUNTY, ARK.--CONTINUED

STATION NUMBER	DATE OF SAMPLE	TOTAL SULFIDE (S) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM AD-SURPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
355804091003001	74-06-25	--	260	1	78	16	.3	8	2.1	9.2
355821090580901	74-06-25	--	250	0	70	18	.6	15	2.8	9.7
355832091043501	74-07-11	.2	220	4	66	13	.4	11	1.7	20
360249090574101	74-06-25	--	250	25	75	14	.3	9	1.8	18
360651090555601	74-06-26	.4	530	290	150	38	.4	8	3.3	37

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)
355804091003001	74-06-25	15	.2	36	2600	380	350	.48	--	--
355821090580901	74-06-25	12	.3	36	3200	400	310	.42	--	--
355832091043501	74-07-11	10	.2	36	4800	1100	289	.39	.13	.00
360249090574101	74-06-25	34	.2	41	3300	1500	317	.43	--	--
360651090555601	74-06-26	270	.2	42	13000	5000	737	1.00	--	--

TABLE 31.—RECORDS OF WELLS IN LEE COUNTY, ARK.

Type of site: W, well.  
Principal aquifer: 111ALWM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.

Use of water: H, domestic; I, irrigation; U, unused.  
Remarks: L, water-level measurements included in report, see table 32; Q, chemical analyses of water included in report, see table 33.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
01N01E16CAD1	344135091002901	Charles Hinkle	W	112TRRC	182	120	I	16.5	602	7-23-74	1,186	7-25-73	L
01N02E09BBB1	344259090541601	Ben Brown	W	112TRRC	200	---	I	---	---	---	1,000	6-9-55	L
01N02E27BDB1	344009090531201	Hays Turner	W	112TRRC	202	92	U	---	---	---	---	---	L
01N02E32DDC1	343839090544401	Univ. of Arkansas	W	112TRRC	184	54	U	---	---	---	---	---	L
01N03E02BBC1	344341090460001	Ott Miller	W	112TRRC	236	168	I	---	---	---	1,900	6-13-58	L
01N03E35BBB1	343923090454901	C. H. Bowman	W	112TRRC	202	120	I	18.0	607	7-27-65	1,483	7-27-73	L
02N01E03BBB2	344905090594501	O'Neal Vandran	W	112TRRC	202	---	I	---	---	---	---	---	L
02N01E08BBB1	344821091014401	Jimmy Bickerstaff	W	112TRRC	203	---	I	---	---	---	782	7-24-73	L
02N01E23BAA2	344630090581702	Hackelton	W	112TRRC	202	137	I	17.0	750	7-23-74	1,150	7-23-74	L
02N01W25AAC1	344538091030501	A. J. Harvey	W	112TRRC	182	---	I	---	---	---	1,438	7-24-73	L
02N01W34CAC1	344421091054801	Smith	W	112TRRC	187	120	I	---	---	---	---	---	L
02N02E24AB1	344627090503801	Billy Gerard	W	112TRRC	207	54	U	---	---	---	---	---	L
02N03E09CDD1	344727090473701	City of Marianna	W	112TRRC	219	---	U	---	---	8-14-57	---	---	L
02N03E14CCC3	344631090455803	Norman French	W	112TRRC	232	163	U	---	690	---	---	---	L
02N03E19BBB1	344627090501201	Norman French	W	112TRRC	202	---	I	16.5	670	7-11-73	1,568	7-11-73	L
03N01E15CCC1	345154090594401	A. L. Vandran	W	112TRRC	197	135	I	17.5	710	8-7-74	1,389	8-7-74	Q
03N01E32AAA1	345010091005701	R.R.R. Farms, Inc	W	112TRRC	201	---	I	---	---	---	658	7-26-73	L
03N01W03BCD1	345418091054001	Nash	W	112TRRC	207	98	I	17.5	960	7-9-73	1,000	7-9-73	L
03N01W14AAB1	345251091040301	---	W	112TRRC	207	---	I	---	---	---	---	---	L
03N01W26BAB1	345107091043301	Home Jones	W	112TRRC	207	---	I	17.0	740	7-10-73	864	7-18-74	Q, L
03N02E04BBC1	345410090542301	George Ballard	W	112TRRC	211	125	I	---	661	7-23-74	750	7-23-74	L
03N02E29DAD1	345015090542901	Briley	W	112TRRC	205	135	I	16.5	---	---	---	---	Q, L
03N03E16CDAL	345156090473501	W. E. Curtis	W	112TRRC	221	---	H	---	---	---	---	---	L
03N03E21ABAL	345139090472201	Dan Felton	W	112TRRC	220	---	H	---	---	---	---	---	L
03N03E32BBB1	344954090490601	---	W	111ALWM	203	150	I	17.0	693	8-7-74	894	8-7-74	Q

TABLE 32.—MEASUREMENTS OF WATER LEVELS IN WELLS, LEE COUNTY, ARK.

01N01E16CAD1. CHARLES HINKLE. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 15 IN, DEPTH 120 FT, CASED 0-80 FT, SCREENED 80-120 FT. LSD 182 FT ABOVE MSL. MP HOLE AT PUMP BASE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 182.00 FEET.

HIGHEST WATER LEVEL 8.89 BELOW LSD, APR. 4, 1975,  
LOWEST WATER LEVEL 20.69 BELOW LSD, SEP. 27, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 22, 1973	10.79	OCT. 30, 1973	20.47	APR. 4, 1974	11.12	SEP. 18, 1975	19.36
JULY 25	34.97A	DEC. 6	15.87	MAY 2	10.94	MAR. 30, 1976	11.61
SEP. 27	20.69	MAR. 7, 1974	11.11	APR. 4, 1975	8.89		

A--PUMPING WATER LEVEL.

01N02E09BBA1. BEN BROWN. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 200 FT ABOVE MSL. MP TOP OF HOLE IN PUMP BASE, REMOVE PLUG, 1.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 200.00 FEET.

HIGHEST WATER LEVEL 11.95 BELOW LSD, APR. 4, 1975,  
LOWEST WATER LEVEL 21.77 BELOW LSD, NOV. 5, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 24, 1973	14.73	MAY 21, 1973	12.68	MAR. 5, 1974	14.71	APR. 4, 1975	11.95
FEB. 13	13.57	SEP. 27	21.60	APR. 4	15.45	SEP. 18	19.79
MAR. 7	13.65	NOV. 5	21.77	MAY 2	14.68	MAR. 30, 1976	16.99
APR. 4	12.42	DEC. 6	19.71				

01N02E27B0B1. HAYES TURNER. DRILLED UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 2 IN, DEPTH 92 FT. LSD 202 FT ABOVE MSL. MP TOP OF PIPE, 2.00 FT ABOVE LSD.  
09-18-75 WELL DESTROYED.  
ALTITUDE OF LAND SURFACE 202.00 FEET.

HIGHEST WATER LEVEL 14.08 BELOW LSD, APR. 4, 1975,  
LOWEST WATER LEVEL 23.81 BELOW LSD, NOV. 5, 1973.  
RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 24, 1973	15.95	APR. 4, 1973	14.76	NOV. 5, 1973	23.81	APR. 4, 1974	17.05
FEB. 13	15.47	MAY 21	15.54	DEC. 6	19.82	MAY 2	16.91
MAR. 7	15.32	SEP. 27	22.69	MAR. 5, 1974	16.21	APR. 4, 1975	14.08

01N02E32DDC1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 54 FT. LSD 184 FT ABOVE MSL. MP TOP OF LIP OF PITCHER, 2.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 184.00 FEET.

HIGHEST WATER LEVEL 4.16 BELOW LSD, APR. 4, 1973,  
LOWEST WATER LEVEL 13.52 BELOW LSD, NOV. 20, 1969.  
RECORDS AVAILABLE 1969-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 20, 1969	13.52	FEB. 8, 1973	4.61	MAY 21, 1973	5.19	DEC. 6, 1973	7.91
MAR. 17, 1970	7.07	MAR. 8	4.89	OCT. 4	11.86	MAR. 5, 1974	5.29
MAR. 16, 1971	5.81	APR. 4	4.16	NOV. 5	11.97	APR. 4	6.18
MAR. 21, 1972	7.25						



TABLE 32.—MEASUREMENTS OF WATER LEVELS IN WELLS, LEE COUNTY, ARK.—CONTINUED

01N03E02BBC1. UNIVERSITY OF ARKANSAS, COTTON BRANCH EXPERIMENT STATION. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN, DEPTH 168 FT, CASED 0-118 FT, SCREENED 118-168 FT. LSD 236.43 FT ABOVE MSL. MP SMALL PIPE IN SLOT IN WEST SIDE OF PUMP BASE, 2.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 236.43 FEET.

HIGHEST WATER LEVEL 30.28 BELOW LSD, MAY 21, 1973,  
LOWEST WATER LEVEL 49.67 BELOW LSD, NOV. 15, 1966.  
RECORDS AVAILABLE 1958-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 13, 1958	34.68	FEB. 18, 1960	35.54	SEP. 15, 1964	47.50	AUG. 21, 1969	43.08
JULY 24	36.54	MAR. 18	34.91	NOV. 17	49.02	NOV. 17	47.41
AUG. 7	35.30	APR. 19	33.63	JAN. 12, 1965	43.55	MAR. 23, 1970	37.85
SEP. 15	39.19	JUNE 16	35.90	MAR. 10	38.67	JULY 30	41.15
OCT. 17	38.93	AUG. 24	40.40	APR. 12	36.73	MAR. 16, 1971	35.01
NOV. 24	40.00	SEP. 19	P	MAY 18	38.68	MAR. 21, 1972	41.87
DEC. 18	39.79	OCT. 14	40.19	JULY 15	42.98	OCT. 20	46.89
JAN. 23, 1959	35.90	NOV. 18	39.83	SEP. 12	46.21	FEB. 8, 1973	33.54
FEB. 13	34.10	DEC. 13	39.60	NOV. 16	47.38	MAR. 9	33.44
MAR. 13	31.90	JAN. 18, 1961	37.97	JAN. 4, 1966	48.82	APR. 3	31.38
APR. 16	33.16	APR. 17	31.16	MAR. 15	44.03	MAY 21	30.28
MAY 18	33.92	AUG. 9	P	MAY 16	40.90	SEP. 27	42.68
JUNE 17	36.52	NOV. 21	45.56	JULY 12	45.13	NOV. 5	44.16
JULY 16	37.98	FEB. 13, 1962	34.50	SEP. 20	46.92	DEC. 21	40.39
AUG. 11	P	APR. 16	32.51	NOV. 15	49.67	MAR. 5, 1974	33.41
SEP. 24	42.96	JUNE 7	37.70	JAN. 24, 1967	48.34	APR. 2	34.42
OCT. 22	42.97	AUG. 16	P	APR. 10	44.86	MAY 1	34.05
NOV. 19	43.43	APR. 15, 1963	39.62	MAY 29	42.32	APR. 2, 1975	30.61
DEC. 23	43.21	APR. 13, 1964	42.21	APR. 3, 1968	37.50	SEP. 18	41.82
JAN. 28, 1960	36.93	JULY 21	40.74	MAR. 17, 1969	38.52	MAR. 30, 1976	36.94

P--PUMPING.

01N03E35BBA1. OTT MILLER. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 120 FT. LSD 202 FT ABOVE MSL. MP AT BOTTOM OF PUMP BASE NORTH SIDE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 202.00 FEET.

HIGHEST WATER LEVEL 0.42 ABOVE LSD, APR. 3, 1973,  
LOWEST WATER LEVEL 11.51 BELOW LSD, NOV. 21, 1961.  
RECORDS AVAILABLE 1957-63, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 22, 1957	4.21	MAY 18, 1959	2.75	JAN. 18, 1961	6.33	MAR. 21, 1972	6.40
DEC. 11	2.68	JUNE 17	3.27	APR. 17	0.21	OCT. 20	11.47
JAN. 30, 1958	2.39	JULY 16	4.03	AUG. 9	2.19	FEB. 8, 1973	0.75
FEB. 11	1.57	AUG. 11	5.80	NOV. 21	11.51	MAR. 9	0.42
MAR. 12	1.36	SEP. 24	8.08	FEB. 13, 1962	6.39	APR. 3	0.42
JUNE 13	2.43	OCT. 22	7.88	APR. 16	1.02	MAY 21	0.38
JULY 24	3.37	NOV. 19	8.08	JUNE 7	3.91	JULY 25	33.51A
AUG. 7	3.08	DEC. 23	7.67	AUG. 16	5.72	SEP. 27	9.04
SEP. 15	5.35	JAN. 28, 1960	5.43	APR. 15, 1963	5.40	NOV. 5	10.44
OCT. 17	5.17	FEB. 18	1.45	APR. 17, 1965	2.96	DEC. 21	7.28
NOV. 24	4.82	MAR. 18	0.91	MAR. 15, 1966	10.07	MAR. 5, 1974	1.60
DEC. 18	4.47	APR. 19	1.35	APR. 10, 1967	10.04	APR. 2	2.24
JAN. 23, 1959	3.11	JUNE 16	3.95	APR. 3, 1968	3.64	MAY 1	2.20
FEB. 13	0.88	AUG. 24	5.87	MAR. 17, 1969	3.90	APR. 2, 1975	0.09
MAR. 13	0.08	OCT. 14	7.77	MAR. 17, 1970	4.17	SEP. 18	8.74
APR. 16	1.00	NOV. 18	7.53	MAR. 16, 1971	1.95	MAR. 30, 1976	3.58

A--PUMPING WATER LEVEL.

02N01E03BBB2. C. H. BOWMAN. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 202 FT ABOVE MSL. MP TOP OF CASING NORTH SIDE, AT LSD.  
ALTITUDE OF LAND SURFACE 202.00 FEET.

HIGHEST WATER LEVEL 38.17 BELOW LSD, MAR. 30, 1976,  
LOWEST WATER LEVEL 40.49 BELOW LSD, SEP. 24, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 12, 1973	39.09	SEP. 24, 1973	40.49	MAR. 6, 1974	38.66	APR. 4, 1975	38.40
MAR. 6	38.96	OCT. 31	39.68	APR. 4	38.61	SEP. 18	38.62
APR. 2	38.81	DEC. 6	39.63	MAY 2	38.29	MAR. 30, 1976	38.17
MAY 11	38.73						

TABLE 32.—MEASUREMENTS OF WATER LEVELS IN WELLS, LEE COUNTY, ARK.—CONTINUED

02N01E08BBA1. ONEAL VANDRAN. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 203 FT ABOVE MSL. MP TOP OF PIT CASING, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 203.00 FEET.

HIGHEST WATER LEVEL 39.68 BELOW LSD, OCT. 31, 1973,  
 LOWEST WATER LEVEL 40.06 BELOW LSD, SEP. 24, 1973.  
 RECORDS AVAILABLE 1973, 19  
 JULY 24, 1973 52.56A, SEP. 24, 1973 40.06, OCT. 31, 1973 39.68, DEC. 6, 1973 39.71.

A--PUMPING WATER LEVEL.

02N01E23BAA2. JIMMY BICKERSTAFF. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 15 IN, DEPTH 137 FT. LSD 202 FT ABOVE MSL. MP HOLE IN PUMP BASE NORTH SIDE, 1.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 202.00 FEET.

HIGHEST WATER LEVEL 27.37 BELOW LSD, APR. 1, 1975,  
 LOWEST WATER LEVEL 33.69 BELOW LSD, MAR. 17, 1970.  
 RECORDS AVAILABLE 1968-76.  
 APR. 4, 1973 28.97, MAY 2, 1974 28.54, APR. 1, 1975 27.37, SEP. 18, 1975 30.22,  
 MAR. 30, 1976 28.96.

02N01W25AAC1. HACKELTON. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN. LSD 182 FT ABOVE MSL. MP TOP OF LARGE SLOT AT PUMP BASE, AT LSD. ALTITUDE OF LAND SURFACE 182.00 FEET.

HIGHEST WATER LEVEL 19.89 BELOW LSD, SEP. 27, 1973,  
 LOWEST WATER LEVEL 19.89 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973, 19  
 JULY 24, 1973 41.45A, SEP. 27, 1973 19.89.

A--PUMPING WATER LEVEL.

02N01W34CAC1. A. J. HARVEY. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 120 FT. LSD 187 FT ABOVE MSL. MP HOLE IN CONCRETE FOUNDATION OF PUMP BASE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 187.00 FEET.

HIGHEST WATER LEVEL 21.48 BELOW LSD, MAY 10, 1973,  
 LOWEST WATER LEVEL 26.02 BELOW LSD, SEP. 18, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 2, 1973	21.54	OCT. 30, 1973	24.62	APR. 4, 1974	22.86	SEP. 18, 1975	26.02
MAY 10	21.48	DEC. 5	23.87	MAY 2	22.36	APR. 2, 1976	22.48
SEP. 27	25.42	MAR. 7, 1974	22.26	APR. 1, 1975	21.56		

02N02E24ABA1. SMITH. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 54 FT. LSD 207 FT ABOVE MSL. MP TOP OF PITCHER, 2.50 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 207.00 FEET.

HIGHEST WATER LEVEL 8.92 BELOW LSD, MAY 11, 1973,  
 LOWEST WATER LEVEL 23.34 BELOW LSD, OCT. 31, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 24, 1973	13.15	APR. 3, 1973	10.37	OCT. 31, 1973	23.34	APR. 3, 1974	14.06
FEB. 9	12.32	MAY 11	8.92	DEC. 7	21.43	MAY 1	13.50
MAR. 6	12.23	SEP. 26	22.05	MAR. 5, 1974	13.13		

TABLE 32.—MEASUREMENTS OF WATER LEVELS IN WELLS, LEE COUNTY, ARK.—CONTINUED

02N03E09CDD1. BILLY GERARD. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 219 FT ABOVE MSL. MP TOP OF PIT CASING EAST SIDE, ST LSD. ALTITUDE OF LAND SURFACE 219.00 FEET.

HIGHEST WATER LEVEL 23.09 BELOW LSD, MAY 22, 1973,  
 LOWEST WATER LEVEL 45.18 BELOW LSD, SEP. 26, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 9, 1973	34.08	SEP. 26, 1973	45.18	APR. 2, 1974	30.48	SEP. 18, 1975	43.04
APR. 4	25.98	NOV. 5	42.85	MAY 1	30.24	MAR. 30, 1976	36.94
MAY 22	23.09	MAR. 5, 1974	30.38	APR. 2, 1975	25.71		

02N03E14CCC3. CITY OF MARIANNA. DRILLED UNUSED PUBLIC-SUPPLY ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 26 IN, DEPTH 163 FT, CASED 0-123 FT, SCREENED 123-163 FT. LSD 232.0 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 232.00 FEET.

HIGHEST WATER LEVEL 35.33 BELOW LSD, MAY 21, 1973,  
 LOWEST WATER LEVEL 56.33 BELOW LSD, SEP. 18, 1975.  
 RECORDS AVAILABLE 1970-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 18, 1970	60.60C	FEB. 8, 1973	45.62	SEP. 26, 1973	56.18	MAY 1, 1974	43.70
MAR. 23	55.15	MAR. 9	48.87	NOV. 5	56.18	APR. 2, 1975	38.76
MAR. 16, 1971	46.45	APR. 4	39.02	DEC. 21	50.74	SEP. 18	56.33
MAR. 21, 1972	53.50	APR. 5	39.10	MAR. 5, 1974	43.66	MAR. 29, 1976	49.54
JAN. 25, 1973	47.95	MAY 21	35.33	APR. 2	43.54		

C--NEARBY WELL BEING PUMPED.

02N03E19BBB1. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. LSD 204 FT ABOVE MSL. MP HOLE IN PUMP BASE, 1.10 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 204.00 FEET.

HIGHEST WATER LEVEL 6.82 BELOW LSD, APR. 4, 1975,  
 LOWEST WATER LEVEL 19.16 BELOW LSD, SEP. 18, 1975.  
 RECORDS AVAILABLE 1975-76.  
 APR. 4, 1975 6.82, SEP. 18, 1975 19.16, MAR. 29, 1976 14.36.

03N01E15CCC1. NORMAN FRENCH. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 202 FT ABOVE MSL. MP HOLE AT PUMP BASE EAST AIDE, 0.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 202.00 FEET.

HIGHEST WATER LEVEL 39.48 BELOW LSD, APR. 4, 1975,  
 LOWEST WATER LEVEL 40.85 BELOW LSD, SEP. 24, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 11, 1973	59.65A	DEC. 7, 1973	40.55	MAY 2, 1974	39.49	SEP. 18, 1975	40.60
SEP. 24	40.85	MAR. 6, 1974	39.80	APR. 4, 1975	39.48	MAR. 30, 1976	39.84
OCT. 31	40.53	APR. 4	39.91				

A--PUMPING WATER LEVEL.

03N01E32AAA1. A. L. VANDRAN. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 201 FT ABOVE MSL. MP TOP OF PIT CASING, 0.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 201.00 FEET.

HIGHEST WATER LEVEL 39.09 BELOW LSD, MAY 2, 1974,  
 LOWEST WATER LEVEL 41.29 BELOW LSD, SEP. 24, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 26, 1973	52.31A	DEC. 6, 1973	40.44	MAY 2, 1974	39.09	SEP. 18, 1975	39.98
SEP. 24	41.29	MAR. 6, 1974	39.64	APR. 4, 1975	39.10	MAR. 30, 1976	39.72
OCT. 31	40.34	APR. 4	39.52				

A--PUMPING WATER LEVEL.

TABLE 32.—MEASUREMENTS OF WATER LEVELS IN WELLS, LEE COUNTY, ARK.—CONTINUED

03N01W03BCD1. R. R. R. FARMS INC. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 98 FT. LSD 207 FT ABOVE MSL. MP BOTTOM OF LARGE OPENING OF PUMP SOUTH SIDE, 1.30 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 207.00 FEET.

HIGHEST WATER LEVEL 50.42 BELOW LSD, SEP. 24, 1973,  
LOWEST WATER LEVEL 50.42 BELOW LSD, SEP. 24, 1973.  
RECORDS AVAILABLE 1973, 19  
JULY 9, 1973 55.63A, SEP. 24, 1973 50.42.

A--PUMPING WATER LEVEL.

03N01W14AAB1. NASH. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN. LSD 207 FT ABOVE MSL. MP TOP OF HOLE IN PUMP BASE WEST SIDE, AT LSD.  
ALTITUDE OF LAND SURFACE 207.00 FEET.

HIGHEST WATER LEVEL 43.33 BELOW LSD, APR. 20, 1954,  
LOWEST WATER LEVEL 54.22 BELOW LSD, SEP. 19, 1975.  
RECORDS AVAILABLE 1953-66, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 24, 1953	44.41	APR. 4, 1960	46.83	FEB. 14, 1973	50.48	MAR. 6, 1974	49.99
APR. 20, 1954	43.33	APR. 17, 1961	47.41	MAR. 6	49.62	APR. 4	50.19
APR. 27, 1955	45.81	APR. 16, 1962	47.96	APR. 2	49.71	MAY 2	50.15
APR. 17, 1956	46.94	APR. 15, 1963	47.80	MAY 11	49.37	APR. 4, 1975	50.29
APR. 15, 1957	47.69	APR. 13, 1964	48.65	SEP. 24	53.28	SEP. 19	54.22
APR. 15, 1958	47.23	APR. 12, 1965	48.48	OCT. 29	51.80	MAR. 30, 1976	51.93
APR. 20, 1959	46.74	MAR. 15, 1966	49.89	DEC. 7	50.62		

03N01W26BAB1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 207 FT ABOVE MSL. MP BASE OF PUMP EAST SIDE, 1.20 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 207.00 FEET.

HIGHEST WATER LEVEL 43.98 BELOW LSD, MAY 2, 1974,  
LOWEST WATER LEVEL 47.47 BELOW LSD, SEP. 19, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 10, 1973	50.95A	DEC. 7, 1973	45.61	MAY 2, 1974	43.98	SEP. 19, 1975	47.47
SEP. 24	46.14	MAR. 6, 1974	44.51	APR. 4, 1975	43.99	APR. 2, 1976	45.01
OCT. 29	45.76	APR. 4	44.39				

A--PUMPING WATER LEVEL.

03N02E04BBC1. HOMER JONES. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 125 FT. LSD 211 FT ABOVE MSL. MP BASE OF PUMP, 1.40 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 211.00 FEET.

HIGHEST WATER LEVEL 37.44 BELOW LSD, APR. 1, 1975,  
LOWEST WATER LEVEL 38.90 BELOW LSD, SEP. 26, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	38.45	MAY 11, 1973	38.01	MAR. 6, 1974	37.71	APR. 1, 1975	37.44
FEB. 8	38.57	SEP. 26	38.90	APR. 4	37.73	SEP. 18	38.49
MAR. 6	38.39	OCT. 31	37.94	MAY 1	37.49	MAR. 29, 1976	37.91
APR. 3	38.14	DEC. 7	37.96				

TABLE 32.—MEASUREMENTS OF WATER LEVELS IN WELLS, LEE COUNTY, ARK.—CONTINUED

03N02E29DAD1. GEORGE BALLARD. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN, DEPTH 135 FT. LSD 205 FT ABOVE MSL. MP TOP OF CASING, 1.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 205.00 FEET.

HIGHEST WATER LEVEL 18.24 BELOW LSD, APR. 1, 1975,  
 LOWEST WATER LEVEL 26.33 BELOW LSD, OCT. 20, 1972.  
 RECORDS AVAILABLE 1968-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 24, 1968	21.74	OCT. 20, 1972	26.33	SEP. 26, 1973	23.77	MAY 1, 1974	20.37
MAR. 17, 1969	24.98	FEB. 8, 1973	21.57	OCT. 31	23.86	APR. 1, 1975	18.24
MAR. 17, 1970	24.92	MAR. 6	20.78	DEC. 7	23.84	SEP. 18	23.87
MAR. 16, 1971	25.80	APR. 3	19.18	MAR. 6, 1974	20.46	MAR. 29, 1976	22.34
MAR. 20, 1972	24.33	MAY 11	18.82	APR. 4	20.51		

03N03E16CDA1. BRILEY. DRILLED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 2 IN. LSD 221 FT ABOVE MSL. MP TOP OF PIPE, 2.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 221.00 FEET.

HIGHEST WATER LEVEL 32.02 BELOW LSD, MAY 1, 1974,  
 LOWEST WATER LEVEL 41.87 BELOW LSD, NOV. 5, 1973.  
 RECORDS AVAILABLE 1973-74.

SEP. 26, 1973 40.57, NOV. 5, 1973 41.87, DEC. 21, 1973 36.59, MAR. 5, 1974 32.39,  
 APR. 2, 1974 33.04, MAY 1, 1974 32.02.

03N03E21ABA1. W. E. CURTIS. DRILLED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 2 IN. LSD 220 FT ABOVE MSL. MP TOP OF PIPE, 3.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 220.00 FEET.

HIGHEST WATER LEVEL 24.18 BELOW LSD, MAY 22, 1973,  
 LOWEST WATER LEVEL 39.23 BELOW LSD, JAN. 24, 1973.

RECORDS AVAILABLE 1973, 19 .  
 JAN. 24, 1973 39.23, FEB. 8, 1973 37.92, MAR. 6, 1973 36.44, APR. 5, 1973 30.97,  
 MAY 22, 1973 24.18.

TABLE 33.—CHEMICAL ANALYSES OF GROUND WATER, LEE COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEOLOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
344135091002901	077	01N01E16CAD1	GW	112TRRC	74-07-23	120	16.5	1180	2
344630090581702	077	02N01E23BAA2	GW	112TRRC	74-07-23	--	17.0	1150	2
344954090490601	077	03N03E32B8B1	GW	111ALVM	74-08-07	--	17.0	890	2
345015090542901	077	03N02E29DAD1	GW	112TRRC	74-07-23	--	16.5	750	2
345032090592701	077	03N01E27CAB1	GW	112TRRC	74-08-07	--	17.5	1380	2
345107091043301	077	03N01W26BAB1	GW	112TRRC	73-07-10	--	17.0	835	--
	077		GW	112TRRC	74-07-18	--	17.0	860	2

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
344135091002901	74-07-23	602	7.3	32	323	394	0	.20	.00	.19	.17
344630090581702	74-07-23	750	7.1	55	358	436	0	.10	.00	.10	.13
344954090490601	74-08-07	693	7.0	69	356	434	0	--	--	.22	.11
345015090542901	74-07-23	661	7.3	34	343	418	0	.00	.08	.08	.19
345032090592701	74-08-07	710	7.2	47	384	468	0	--	--	.05	.05
345107091043301	73-07-10	740	--	--	--	--	--	--	--	--	--
	74-07-18	676	7.2	42	344	419	0	.00	.09	.09	.05

TABLE 33.—CHEMICAL ANALYSES OF GROUND WATER, LEE COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	HARDNESS (CA, MG)	HARDNESS (MAG, MG)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM AD-SORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
344135091002901	74-07-23	290	28	0	69	17	.4	11	1.0	4.5	3.5
344630090581702	74-07-23	360	37	2	83	20	.5	11	1.1	.31	6.0
344954090490601	74-08-07	360	36	7	86	14	.3	8	1.1	6.5	26
345015090542901	74-07-23	330	33	0	79	14	.3	8	.9	12	8.2
345032090592701	74-08-07	350	34	0	86	18	.4	10	1.4	6.8	7.2
345107091043301	73-07-10	--	--	--	--	--	--	--	--	--	--
	74-07-18	310	24	0	83	29	.7	17	1.8	13	10

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS PER AC-FT	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)
344135091002901	74-07-23	.3	35	2900	440	331	357	.45	.00	.66
344630090581702	74-07-23	.3	39	2500	300	411	436	.56	.00	.33
344954090490601	74-08-07	.3	37	3200	300	405	425	.55	--	--
345015090542901	74-07-23	.3	39	3000	290	369	396	.50	.35	.00
345032090592701	74-08-07	.3	36	1500	460	406	423	.55	--	--
345107091043301	73-07-10	--	--	--	--	--	--	--	--	--
	74-07-18	.2	36	790	460	385	405	.52	.40	.00

TABLE 34.—RECORDS OF WELLS IN MONROE COUNTY, ARK.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
01N01W08BCDI	344247091081001	Wiley Meachum	W	112TRRC	183	---	I	---	---	---	903	7-24-73	L
01N01W17BAAL	344218091075501	---	W	112TRRC	186	---	I	---	---	---	1,170	7-24-73	L
01N01W21CDCI	344034091071001	Aloys Rinehart	W	112TRRC	181	134	I	17.0	556	7-13-74	1,330	7-13-74	Q,
01N01W28BACL	344022091070101	---	W	112TRRC	181	36	U	---	---	---	---	---	L
01N01W34DCCI	343847091054001	---	W	112TRRC	186	---	I	---	---	---	569	7-19-73	L
01N02W15DCCI	344133091120301	Fox	W	112TRRC	180	27	U, N	---	---	---	---	---	L
01N03W23BAD1	344125091173601	Croenn Nelson	W	112TRRC	176	115	I	17.0	386	7-24-74	1,195	7-24-74	L
01N03W24BBAL	344135091165101	B. B. Bateman	W	112TRRC	186	125	I	18.0	---	7-12-66	650	7-12-74	L
01S01W06BACL	343840091085501	---	W	112TRRC	182	---	I	---	---	---	750	7-19-73	L
01S01W06DBB1	343823091085701	J. E. Vaughn	W	112TRRC	183	130	I	17.0	405	7-22-74	1,511	7-22-74	Q
01S01W13CDD1	343612091034401	Don Miller	W	112TRRC	178	135	I	---	---	---	---	---	L
01S01W14CCCI	343614091050701	Butch Kelly	W	112TRRC	176	38	H	---	---	---	---	---	L
01S01W19AAB2	343616091084102	---	W	112TRRC	179	---	U	---	---	---	---	---	L
01S01W19CAAL	343535091054901	Earl Chastain	W	112TRRC	177	135	I	17.0	652	7-19-74	586	7-19-74	L
01S02W11BCCI	343735091114001	Ralph Abramson	W	112TRRC	180	125	I	---	---	---	---	---	Q,
01S02W20BAAL	343610091143201	Richardson	W	112TRRC	174	116	I	18.0	253	7-23-65	1,000	7-23-65	L
02N01W07CCCI	344739091091801	---	W	112TRRC	191	---	U	---	---	---	---	---	L
02N01W07CCCI	344739091091802	---	W	112TRRC	191	140	I	16.5	883	7-24-74	1,812	7-24-74	L
02N01W18DBAL	344705091083701	---	W	112TRRC	191	140	I	---	---	---	1,507	7-20-73	L
02N02W20BACL	344638091143701	Townsend Fstate	W	112TRRC	188	98	I	18.0	1,030	8-7-74	640	8-7-74	Q,
02N03W35CCBI	344425091175201	Ray Townsend	W	112TRRC	187	115	I	---	---	---	1,500	11-3-61	L
02S02W01BCAL	343318091103001	---	W	112TRRC	171	---	I	---	---	---	---	---	L
03N01W06DBAL	345411091082201	---	W	112TRRC	191	---	I	---	---	---	---	---	L
03N01W20ABAL	345201091072101	C. E. Mitchell	W	112TRRC	189	---	I	---	---	---	---	---	L
03N01W32ABAL	345016091072201	Pleasant Valley Church	W	112TRRC	191	---	U	---	---	---	---	---	L
03N02W04CCDI	345350091131301	---	W	112TRRC	192	---	I	---	---	---	757	7-20-73	L
03N02W29CBAL	345040091142301	Mrs. A. W. Ward	W	112TRRC	191	136	I	17.0	---	8-7-74	1,600	8-7-74	Q,
03N02W32BACL	345009091143401	Glen Fuller	W	112TRRC	191	124	I	---	---	---	---	---	L
03N03W36AAAL	345021091154701	C. F. Betzner	W	112TRRC	176	---	I	---	---	---	---	---	L
03S01W03DAB1	342749091055001	Goldine Roberts	W	112TRRC	166	118	I	---	---	---	1,600	---	L
03S01W36BBD1	342338091041101	Butch Kelley	W	112TRRC	163	98	I	---	---	---	---	---	L
04N02W07CBCL	345829091152701	Bruce Tarkington	W	112TRRC	192	21	U	---	---	---	---	---	L
04N02W11BCCI	345841091106001	David Bush	W	112TRRC	218	---	I	---	---	---	---	---	L
04N02W29DBAL	345558091134101	Dr. McGraw	W	112TRRC	193	128	I	18.0	2,750	7-18-73	463	7-18-73	L
04N02W29DDAL	345550091132701	Dodson Jones	W	112TRRC	182	---	U	---	---	---	255	8-7-74	Q
04N02W30BBD1	345628091152401	Brown	W	112TRRC	195	119	U	---	---	---	---	---	L
04N02W36BACL	345526091161901	Carter Co	W	112TRRC	180	---	I	---	---	---	---	---	L
04N02W36DAB1	345459091091701	Dodson Jones	W	112TRRC	191	140	I	17.0	854	7-23-74	1,046	7-23-74	Q, L

Type of site: W, well.

Principal aquifer: 112TRRC, terrace deposits of Quaternary age.

Use of water: H, domestic; I, irrigation; N, industrial; U, unused.

Remarks: L, water-level measurements included in report, see table 35; Q, chemical analyses of water included in report, see table 36.



TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.

01N01W08BCD1. WILEY MEACHUM. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 15 IN. LSD 183 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 183.00 FEET.

HIGHEST WATER LEVEL 23.02 BELOW LSD, SEP. 27, 1973,  
 LOWEST WATER LEVEL 23.02 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973.  
 JULY 24, 1973 29.69A, SEP. 27, 1973 23.02.

A--PUMPING WATER LEVEL.

01N01W17BAA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN. LSD 186 FT ABOVE MSL. MP BOTTOM OF LARGE OPENING IN BASE OF PUMP WEST SIDE, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 186.00 FEET.

HIGHEST WATER LEVEL 20.96 BELOW LSD, APR. 1, 1975,  
 LOWEST WATER LEVEL 25.61 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 24, 1973	32.81A	DEC. 5, 1973	23.88	MAY 2, 1974	22.22	SEP. 18, 1975	23.56
SEP. 27	25.61	MAR. 7, 1974	22.75	APR. 1, 1975	20.96	APR. 2, 1976	21.39
OCT. 30	24.28	APR. 3	22.51				

A--PUMPING WATER LEVEL.

01N01W21CDC1. ALOYS HINEHART. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 134 FT. LSD 181 FT ABOVE MSL. MP TOP OF HOLE IN PUMP BASE, AT LSD. ALTITUDE OF LAND SURFACE 151.00 FEET.

HIGHEST WATER LEVEL 11.44 BELOW LSD, APR. 4, 1960,  
 LOWEST WATER LEVEL 19.70 BELOW LSD, OCT. 19, 1972.  
 RECORDS AVAILABLE 1954-57, 1960-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 20, 1954	19.40	APR. 16, 1962	13.78	APR. 12, 1968	17.14	JULY 13, 1973	26.49A
APR. 27, 1955	14.88	APR. 15, 1963	17.17	MAR. 17, 1969	18.91	SEP. 27	19.18
APR. 17, 1956	15.62	APR. 13, 1964	16.58	MAR. 16, 1970	18.80	APR. 3, 1974	17.02
APR. 15, 1957	16.08	APR. 12, 1965	15.73	MAR. 15, 1971	18.26	APR. 3, 1975	16.44
APR. 4, 1960	11.44	MAR. 15, 1966	17.46	MAR. 20, 1972	17.97	APR. 2, 1976	16.19
APR. 17, 1961	13.37	APR. 17, 1967	17.60	OCT. 19	19.70		

A--PUMPING WATER LEVEL.

01N01W28BAC1. DRIVEN UNUSED DOMESTIC ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 36 FT. LSD 181 FT ABOVE MSL. MP TOP OF PITCHER, 3.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 181.00 FEET.

HIGHEST WATER LEVEL 14.82 BELOW LSD, APR. 2, 1976,  
 LOWEST WATER LEVEL 17.81 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	16.50	MAY 10, 1973	15.34	MAR. 7, 1974	15.81	APR. 3, 1975	14.86
FEB. 8	16.67	SEP. 27	17.81	APR. 3	15.52	SEP. 23	16.00
MAR. 5	16.19	OCT. 30	17.02	MAY 2	15.39	APR. 2, 1976	14.82
APR. 5	15.92	DEC. 6	16.81				

TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

01N01W34DCC1. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 186 FT ABOVE MSL. MP BOTTOM OF LARGE OPENING IN PUMP BASE WEST SIDE, 0.80 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 186.00 FEET.

HIGHEST WATER LEVEL 14.22 BELOW LSD, APR. 3, 1975,  
 LOWEST WATER LEVEL 18.21 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 19, 1973	28.38A	DEC. 6, 1973	17.60	MAY 2, 1974	15.56	SEP. 23, 1975	16.93
SEP. 27	18.21	MAR. 7, 1974	15.94	APR. 3, 1975	14.22	APR. 2, 1976	15.76
NOV. 1	18.19	APR. 4	15.92				

A--PUMPING WATER LEVEL.

01N02W15DCC1. FOX. DRIVEN UNUSED DOMESTIC ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 27 FT. LSD 180 FT ABOVE MSL. MP TOP OF COUPLING ON PIPE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 180.00 FEET.

HIGHEST WATER LEVEL 10.81 BELOW LSD, APR. 1, 1975,  
 LOWEST WATER LEVEL 13.80 BELOW LSD, JAN. 30, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	13.80	MAY 10, 1973	11.90	MAR. 7, 1974	12.53	APR. 1, 1975	10.81
FEB. 7	13.61	SEP. 28	13.18	APR. 3	12.40	SEP. 19	12.18
MAR. 5	13.18	OCT. 30	13.47	MAY 2	12.29	APR. 5, 1976	12.46
APR. 5	12.62	DEC. 5	13.48				

01N03W24BBA1. B. B. BATEMAN. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 125 FT. LSD 186 FT ABOVE MSL. MP TOP OF CUTOUT IN CASING NORTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 186.00 FEET.

HIGHEST WATER LEVEL 17.40 BELOW LSD, APR. 16, 1962,  
 LOWEST WATER LEVEL 24.50 BELOW LSD, AUG. 15, 1964.  
 RECORDS AVAILABLE 1957, 1961-64, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 18, 1957	24.44	NOV. 21, 1961	19.60	NOV. 17, 1964	24.02	MAR. 5, 1973	21.14
FEB. 28, 1961	19.66	DEC. 14	19.80	JAN. 24, 1967	23.44	APR. 5	20.00
MAR. 29	19.20	JAN. 25, 1962	19.03	APR. 10	23.11	MAY 10	18.56
APR. 17	18.47	FEB. 14	18.63	MAY 29	22.95	SEP. 28	20.02
APR. 27	18.18	MAR. 9	18.11	APR. 2, 1968	22.20	OCT. 30	20.16
MAY 16	17.76	APR. 16	17.40	MAR. 17, 1969	20.88	DEC. 5	20.57
JUNE 27	17.50	JUNE 4	17.58	MAR. 16, 1970	22.46	MAR. 7, 1974	18.79
JULY 25	18.23	AUG. 16	18.78	MAR. 15, 1971	21.29	APR. 3	18.53
AUG. 9	18.23	APR. 15, 1963	21.19	MAR. 20, 1972	22.88	MAY 2	18.42
AUG. 29	18.63	APR. 13, 1964	23.46	OCT. 18	23.83	APR. 1, 1975	17.62
SEP. 27	18.98	JULY 20	23.21	JAN. 17, 1973	22.60	SEP. 19	20.73
OCT. 30	19.46	AUG. 15	24.50	FEB. 7	22.18	APR. 5, 1976	20.61

01S01W06ABC1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN. LSD 182 FT ABOVE MSL. MP TOP OF CASING SOUTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 182.00 FEET.

HIGHEST WATER LEVEL 14.48 BELOW LSD, APR. 3, 1975,  
 LOWEST WATER LEVEL 17.12 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 19, 1973	21.37A	DEC. 6, 1973	16.68	APR. 30, 1974	15.32	SEP. 19, 1975	15.59
SEP. 27	17.12	APR. 4, 1974	15.63	APR. 3, 1975	14.48	APR. 2, 1976	14.69
NOV. 1	16.74						

A--PUMPING WATER LEVEL.

TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

01S01W13CDD1. DON MILLER. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 135 FT. LSD 178 FT ABOVE MSL. MP TOP OF CASING EAST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 178.00 FEET.

HIGHEST WATER LEVEL 3.43 BELOW LSD, APR. 17, 1961,  
 LOWEST WATER LEVEL 12.76 BELOW LSD, JAN. 17, 1957.  
 RECORDS AVAILABLE 1957-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 17, 1957	12.76	OCT. 17, 1958	8.06	APR. 19, 1960	4.29	MAR. 16, 1970	10.14
FEB. 14	12.16	NOV. 24	7.38	OCT. 14	9.39	MAR. 15, 1971	7.75
MAR. 12	10.59	DEC. 18	6.97	NOV. 18	9.13	MAR. 20, 1972	8.17
APR. 18	9.40	JAN. 23, 1959	5.76	JAN. 18, 1961	8.83	OCT. 19	11.76
MAY 16	9.02	FEB. 13	5.09	APR. 17	3.43	FEB. 7, 1973	7.51
JUNE 13	8.82	MAR. 13	4.16	AUG. 9	8.92	MAR. 5	6.97
SEP. 19	12.20	APR. 16	3.86	NOV. 21	9.53	APR. 5	6.14
OCT. 17	11.88	MAY 18	4.27	FEB. 14, 1962	6.48	MAY 10	5.09
NOV. 22	9.16	JUNE 17	7.53	APR. 16	5.40	SEP. 27	10.12
DEC. 11	8.47	JULY 16	8.62	JUNE 6	7.73	OCT. 30	9.67
JAN. 30, 1958	8.11	AUG. 11	8.82	AUG. 16	10.32	DEC. 6	8.89
FEB. 11	7.33	SEP. 24	9.05	APR. 15, 1963	6.08	MAR. 5, 1974	6.40
MAR. 12	7.19	OCT. 22	8.80	APR. 13, 1964	8.48	APR. 4	6.27
MAY 15	4.52	NOV. 19	7.83	APR. 12, 1965	8.23	APR. 30	5.74
JUNE 13	7.37	DEC. 23	7.31	MAR. 15, 1966	8.51	APR. 3, 1975	3.84
JULY 24	7.71	JAN. 28, 1960	7.09	APR. 10, 1967	10.91	SEP. 19	9.18
AUG. 7	8.62	FEB. 18	4.98	APR. 2, 1968	8.84	APR. 1, 1976	6.11
SEP. 15	8.59	MAR. 18	4.43	MAR. 17, 1969	9.66		

01S01W14CCC1. BUTCH KELLEY. DRIVEN DOMESTIC ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 38 FT. LSD 176 FT ABOVE MSL. MP TOP OF PITCHER PUMP, 3.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 176.00 FEET.

HIGHEST WATER LEVEL 6.13 BELOW LSD, APR. 5, 1973,  
 LOWEST WATER LEVEL 9.04 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973.  
 JAN. 17, 1973 7.55, FEB. 7, 1973 7.15, MAR. 5, 1973 6.78, APR. 5, 1973 6.13,  
 SEP. 27, 1973 9.04.

01S01W19AAB2. DRIVEN UNUSED DOMESTIC ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 179 FT ABOVE MSL. MP TOP OF PITCHER, 2.80 FT ABOVE LSD. 04-04-1974 WELL DESTROYED. ALTITUDE OF LAND SURFACE 179.00 FEET.

HIGHEST WATER LEVEL 12.78 BELOW LSD, MAR. 5, 1974,  
 LOWEST WATER LEVEL 14.43 BELOW LSD, OCT. 30, 1973.  
 RECORDS AVAILABLE 1973-74.  
 APR. 5, 1973 13.86, MAY 10, 1973 12.94, SEP. 27, 1973 14.26, OCT. 30, 1973 14.43,  
 DEC. 6, 1973 14.30, MAR. 5, 1974 12.78.

01S01W34CAA1. EARL CHASTAIN. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 135 FT. LSD 177 FT ABOVE MSL. MP HOLE IN WOOD COVER, 0.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 177.00 FEET.

HIGHEST WATER LEVEL 9.98 BELOW LSD, APR. 3, 1975,  
 LOWEST WATER LEVEL 16.02 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 13, 1973	17.16A	DEC. 6, 1973	14.96	APR. 30, 1974	11.97	SEP. 19, 1975	15.77
SEP. 27	16.02	MAR. 5, 1974	12.71	APR. 3, 1975	9.98	APR. 1, 1976	12.57
OCT. 30	15.48	APR. 4	12.17				

A--PUMPING WATER LEVEL.

TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

01S02W11BCC1. RALPH ABRAMSON. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 125 FT. LOD 180 FT ABOVE MSL. MP TOP OF CUTOUT 00UTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 180.00 FEET.

HIGHEST WATER LEVEL 6.12 BELOW LSD, APR. 17, 1961,  
 LOWEST WATER LEVEL 14.36 BELOW LSD, OCT. 18, 1972.  
 RECORDS AVAILABLE 1959-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1959	8.80	MAR. 18, 1960	7.93	APR. 15, 1963	9.15	MAR. 5, 1973	12.49
FEB. 13	8.20	APR. 19	7.57	APR. 13, 1964	11.79	APR. 5	11.92
MAR. 13	6.72	MAY 6	7.29	APR. 12, 1965	11.10	MAY 10	10.77
APR. 16	6.96	OCT. 14	11.05	MAR. 14, 1966	13.15	SEP. 27	12.08
MAY 18	7.59	NOV. 18	10.87	APR. 10, 1967	13.11	OCT. 30	12.04
JUNE 17	7.75	JAN. 18, 1961	10.35	APR. 2, 1968	13.69	DEC. 5	11.94
JULY 16	8.41	APR. 17	6.12	MAR. 17, 1969	11.78	MAR. 7, 1974	10.69
SEP. 24	10.83	NOV. 21	12.70	MAR. 16, 1970	12.98	APR. 3	10.31
OCT. 22	10.55	FEB. 14, 1962	8.11	MAR. 15, 1971	12.29	APR. 30	10.05
NOV. 19	10.36	APR. 16	6.98	MAR. 20, 1972	12.94	APR. 1, 1975	8.12
DEC. 23	9.56	JUNE 7	8.03	OCT. 18	14.36	SEP. 19	11.41
JAN. 28, 1960	8.31	AUG. 16	9.54	FEB. 7, 1973	12.79	APR. 1, 1976	10.64
FEB. 18	8.15						

01S02W20BAA1. RICHARDSON BROTHERS. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 116 FT, CASED 0-96 FT, SCREENED 96-116 FT. LSD 174 FT ABOVE MSL. MP HOLE IN CONCRETE FOUNDATION AT PUMP BASE, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 174.00 FEET.

HIGHEST WATER LEVEL 4.52 BELOW LSD, MAY 10, 1973,  
 LOWEST WATER LEVEL 11.96 BELOW LSD, JAN. 17, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 17, 1973	11.96	SEP. 28, 1973	9.19	MAR. 7, 1974	7.26	APR. 1, 1975	5.91
APR. 5	7.38	OCT. 30	9.69	APR. 3	8.01	SEP. 19	10.78
MAY 10	4.52	DEC. 5	10.09	APR. 30	6.88	APR. 2, 1976	11.04

02N01W07CCC1. DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, LSD 191 FT ABOVE MSL. MP TOP OF CASING, AT LSD. 04-05-1976 WELL DESTROYED. ALTITUDE OF LAND SURFACE 181.00 FEET.

HIGHEST WATER LEVEL 30.33 BELOW LSD, APR. 4, 1975,  
 LOWEST WATER LEVEL 36.37 BELOW LSD, SEP. 23, 1975.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 22, 1973	30.53	DEC. 5, 1973	31.68	APR. 3, 1974	30.56	APR. 4, 1975	30.33
OCT. 3	33.87	MAR. 7, 1974	30.81	MAY 1	30.76	SEP. 23	36.37
OCT. 31	32.67						

02N01W18DBA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 191 FT ABOVE MSL. MP TOP OF CASING SOUTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 191.00 FEET.

HIGHEST WATER LEVEL 32.88 BELOW LSD, APR. 5, 1976,  
 LOWEST WATER LEVEL 37.12 BELOW LSD, SEP. 24, 1975.  
 RECORDS AVAILABLE 1973, 1975-76.  
 JULY 20, 1973 35.61A, OCT. 3, 1973 34.46, SEP. 24, 1975 37.12, APR. 5, 1976 32.88.

A--PUMPING WATER LEVEL.

TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

02N02W20B8C1. TOWNSEND ESTATE. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 98 FT, CASED 0-78 FT, SCREENED 78-98 FT. LSD 188 FT ABOVE MSL. MP TOP OF CUTOUT IN CASING WEST SIDE, AT LSD.  
ALTITUDE OF LAND SURFACE 188.00 FEET.

HIGHEST WATER LEVEL 23.11 BELOW LSD, MAY 18, 1959,  
LOWEST WATER LEVEL 28.31 BELOW LSD, SEP. 19, 1975.  
RECORDS AVAILABLE 1957-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 18, 1957	25.55	JAN. 23, 1959	23.97	MAR. 29, 1961	23.82	APR. 2, 1968	26.45
FEB. 14	25.04	FEB. 12	23.68	APR. 17	23.80	MAR. 17, 1969	26.65
MAR. 12	25.28	MAR. 13	23.34	APR. 27	23.68	MAR. 16, 1970	27.12
APR. 14	25.18	APR. 15	23.23	MAY 25	23.96	MAR. 15, 1971	27.18
MAY 15	24.82	MAY 18	23.11	JUNE 27	25.13	MAR. 20, 1972	26.40
JUNE 12	24.33	SEP. 24	24.55	AUG. 29	24.51	OCT. 18	28.02
JULY 12	24.71	OCT. 21	24.31	SEP. 27	24.65	JAN. 17, 1973	27.48
AUG. 28	25.11	NOV. 18	24.12	OCT. 30	24.54	FEB. 7	27.49
SEP. 19	25.02	DEC. 23	23.98	NOV. 21	24.95	MAR. 5	27.18
OCT. 17	24.83	JAN. 27, 1960	23.40	DEC. 15	24.35	APR. 5	27.07
NOV. 21	24.75	FEB. 18	23.84	JAN. 25, 1962	24.15	MAY 10	26.84
DEC. 11	24.43	MAR. 17	23.69	FEB. 9	26.60	SEP. 28	27.44
JAN. 30, 1958	24.11	APR. 4	23.75	MAR. 9	26.07	OCT. 30	27.26
FEB. 11	24.35	MAY 6	23.35	APR. 16	23.84	DEC. 5	27.17
MAR. 12	24.22	SEP. 19	25.70	JUNE 4	24.99	MAR. 7, 1974	26.78
APR. 15	23.95	OCT. 13	25.13	APR. 15, 1963	24.11	APR. 3	26.61
MAY 14	23.82	NOV. 16	24.35	APR. 13, 1964	25.30	MAY 2	26.48
SEP. 15	25.96	DEC. 13	24.47	APR. 12, 1965	25.14	APR. 1, 1975	26.72
OCT. 16	24.29	JAN. 15, 1961	23.93	MAR. 15, 1966	26.28	SEP. 19	28.31
NOV. 18	24.06	FEB. 28	23.98	APR. 10, 1967	26.43	APR. 5, 1976	27.14
DEC. 18	23.83						

02N03W35C8B1. RAY TOWNSEND. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 115 FT, CASED 0-85 FT, SCREENED 85-115 FT. LSD 187 FT ABOVE MSL. MP BASE OF PUMP WEST SIDE, 0.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 187.00 FEET.

HIGHEST WATER LEVEL 19.96 BELOW LSD, MAY 21, 1973,  
LOWEST WATER LEVEL 28.33 BELOW LSD, DEC. 15, 1961.  
RECORDS AVAILABLE 1961, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 15, 1961	28.33	APR. 5, 1973	23.13	DEC. 5, 1973	25.37	APR. 1, 1975	21.59
JAN. 17, 1973	26.21	MAY 21	19.96	MAR. 7, 1974	22.11	SEP. 19	26.29
FEB. 7	26.27	SEP. 28	23.99	APR. 3	21.77	APR. 5, 1976	25.71
MAR. 5	24.21	OCT. 30	25.21	MAY 2	21.60		

02S02W018C1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 6 IN. LSD 171 FT ABOVE MSL. MP TOP OF REDUCING COUPLING, 1.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 171.00 FEET.

HIGHEST WATER LEVEL 4.68 BELOW LSD, MAY 10, 1973,  
LOWEST WATER LEVEL 14.62 BELOW LSD, OCT. 18, 1972.  
RECORDS AVAILABLE 1966, 1970-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1966	12.60	FEB. 7, 1973	10.91	NOV. 5, 1973	11.41	APR. 30, 1974	8.10
MAR. 16, 1970	12.43	MAR. 5	10.09	DEC. 5	10.50	APR. 1, 1975	6.26
MAR. 15, 1971	10.79	APR. 5	8.33	MAR. 5, 1974	8.07	SEP. 19	10.89
MAR. 20, 1972	12.65	MAY 10	4.68	APR. 4	8.55	APR. 2, 1976	10.32
OCT. 18	14.62	SEP. 28	11.04				

TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

03N01W06DBA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 20 IN. LSD 191 FT ABOVE MSL. MP TOP OF RIM AT PUMP BASE, AT LSD.  
ALTITUDE OF LAND SURFACE 191.00 FEET.

HIGHEST WATER LEVEL 25.62 BELOW LSD, MAR. 31, 1975,  
LOWEST WATER LEVEL 31.52 BELOW LSD, SEP. 19, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1973	27.56	MAY 11, 1973	26.65	MAR. 7, 1974	27.06	MAR. 31, 1975	25.62
FEB. 8	27.53	SEP. 24	29.72	APR. 3	26.81	SEP. 19	31.52
MAR. 6	26.89	OCT. 29	28.81	MAY 1	26.62	APR. 2, 1976	27.59
APR. 2	26.48	DEC. 7	28.27				

03N01W20ABA1. C. E. MITCHELL. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 189 FT ABOVE MSL. MP BOTTOM OF CUTOUT IN CASING, AT LSD.  
ALTITUDE OF LAND SURFACE 189.00 FEET.

HIGHEST WATER LEVEL 25.70 BELOW LSD, APR. 4, 1975,  
LOWEST WATER LEVEL 30.02 BELOW LSD, SEP. 23, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 24, 1973	28.80	DEC. 6, 1973	28.66	MAY 3, 1974	26.59	SEP. 23, 1975	30.02
SEP. 27	29.18	MAR. 6, 1974	27.03	APR. 4, 1975	25.70	APR. 5, 1976	27.77
OCT. 31	28.48	APR. 4	27.20				

03N01W32ABA1. PLEASANT VALLEY CHURCH. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 191 FT ABOVE MSL. MP TOP OF PITCHER, 2.80 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 191.00 FEET.

HIGHEST WATER LEVEL 23.38 BELOW LSD, MAY 21, 1973,  
LOWEST WATER LEVEL 29.98 BELOW LSD, SEP. 23, 1975.  
RECORDS AVAILABLE 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1972	28.42	MAY 21, 1973	23.38	MAR. 6, 1974	25.67	APR. 4, 1975	24.47
FEB. 12, 1973	25.56	SEP. 27	28.22	APR. 4	25.68	SEP. 23	29.98
MAR. 6	25.24	OCT. 31	27.62	MAY 3	25.31	APR. 5, 1976	26.81
APR. 2	24.76	DEC. 6	27.20				

03N02W04CCD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 192 FT ABOVE MSL. MP SMALL HOLE IN PUMP BASE SOUTH SIDE, 0.90 FT ABOVE LSU.  
ALTITUDE OF LAND SURFACE 192.00 FEET.

HIGHEST WATER LEVEL 25.49 BELOW LSD, APR. 4, 1974,  
LOWEST WATER LEVEL 33.12 BELOW LSD, SEP. 24, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 20, 1973	56.04A	DEC. 5, 1973	26.52	MAY 1, 1974	25.81	SEP. 23, 1975	27.31
SEP. 24	33.12	MAR. 7, 1974	25.60	APR. 4, 1975	25.64	APR. 5, 1976	26.49
OCT. 29	26.76	APR. 4	25.49				

A--PUMPING WATER LEVEL.

TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

03N02W29CBA1. MRS. A. W. WARD. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 136 FT, CASED 0-99 FT, SCREENED 99-136 FT. LSD 191.14 FT ABOVE MSL. MP TOP OF CUTOUT IN CASING, AT LSD. ALTITUDE OF LAND SURFACE 191.14 FEET.

HIGHEST WATER LEVEL 21.57 BELOW LSD, DEC. 15, 1961,  
 LOWEST WATER LEVEL 26.85 BELOW LSD, JAN. 18, 1957.  
 RECORDS AVAILABLE 1955, 1957-61.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 6, 1955	25.67	MAR. 12, 1958	23.71	MAY 18, 1959	22.95	NOV. 16, 1960	24.83
JAN. 18, 1957	26.85	APR. 15	23.40	JUNE 16	23.71	DEC. 13	24.96
FEB. 14	26.19	MAY 14	23.25	SEP. 24	24.90	JAN. 16, 1961	24.32
MAR. 12	26.14	AUG. 7	25.36	OCT. 21	24.95	FEB. 18	23.93
APR. 15	25.49	SEP. 15	25.05	NOV. 18	24.87	MAR. 28	22.90
MAY 15	24.98	OCT. 16	25.75	DEC. 24	24.74	APR. 27	23.66
JUNE 12	24.57	NOV. 18	24.70	JAN. 27, 1960	24.12	MAY 25	23.48
SEP. 18	25.61	DEC. 17	24.48	FEB. 18	24.10	JUNE 27	23.44
OCT. 16	25.27	JAN. 23, 1959	24.30	MAR. 17	23.58	AUG. 29	24.72
NOV. 21	25.35	FEB. 12	23.85	APR. 4	23.60	SEP. 27	24.92
DEC. 11	24.98	MAR. 10	23.42	SEP. 19	25.95	OCT. 30	24.83
JAN. 30, 1958	24.47	APR. 15	23.20	OCT. 13	25.07	DEC. 15	21.57
FEB. 11	23.86						

03N02W32BBC1. GLEN FULLER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 124 FT. LSD 190.6 FT ABOVE MSL. MP HOLE IN RIM AT PUMP BASE, AT LSD. ALTITUDE OF LAND SURFACE 190.60 FEET.

HIGHEST WATER LEVEL 25.53 BELOW LSD, MAR. 31, 1975,  
 LOWEST WATER LEVEL 28.37 BELOW LSD, OCT. 18, 1972.  
 RECORDS AVAILABLE 1955, 1966-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 6, 1955	26.33	MAR. 17, 1969	25.85	MAR. 5, 1973	26.41	MAR. 7, 1974	26.16
MAR. 0, 1966	26.15	MAR. 16, 1970	26.91	APR. 2	26.16	APR. 4	25.96
JAN. 24, 1967	26.54	MAR. 15, 1971	26.57	MAY 10	25.59	MAY 1	25.61
MAR. 12	25.87	MAR. 20, 1972	26.59	SEP. 28	28.01	MAR. 31, 1975	25.53
APR. 10	25.95	OCT. 18	28.37	OCT. 30	27.48	SEP. 19	27.68
MAY 29	P	JAN. 17, 1973	26.93	DEC. 5	26.70	APR. 2, 1976	26.29
APR. 2, 1968	25.55	FEB. 7	26.74				

P--PUMPING

03N03W36AAA1. C. F. BETZNER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 176 FT ABOVE MSL. MP HOLE IN PUMP BASE NORTH SIDE, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 176.00 FEET.

HIGHEST WATER LEVEL 6.15 BELOW LSD, MAY 10, 1973,  
 LOWEST WATER LEVEL 14.77 BELOW LSD, OCT. 30, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1973	12.92	MAY 10, 1973	6.15	MAR. 7, 1974	12.97	MAR. 31, 1975	10.73
FEB. 7	13.21	SEP. 28	12.23	APR. 4	11.78	SEP. 19	14.01
MAR. 5	12.22	OCT. 30	14.77	MAY 1	11.90	APR. 2, 1976	12.71
APR. 2	11.12	DEC. 5	14.48				

TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

03S01W03DAB1. GOLDINE ROBERTS. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN, DEPTH 118 FT, CASED 0-98 FT, SCREENED 98-118 FT. LSD 166 FT ABOVE MSL. MP TOP OF PIT CASING, 0.80 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 166.00 FEET.

HIGHEST WATER LEVEL 2.74 BELOW LSD, MAY 21, 1973,  
LOWEST WATER LEVEL 15.11 BELOW LSD, OCT. 18, 1972.  
RECORDS AVAILABLE 1966, 1969-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1966	13.25	OCT. 18, 1972	15.11	NOV. 5, 1973	11.64	APR. 30, 1974	6.88
MAR. 29, 1969	8.92	MAR. 8, 1973	8.99	DEC. 6	10.94	APR. 1, 1975	4.94
MAR. 16, 1970	11.98	APR. 4	6.66	MAR. 5, 1974	6.51	SEP. 19	11.00
MAR. 15, 1971	10.08	MAY 21	2.74	APR. 2	7.18	APR. 1, 1976	10.38
MAR. 20, 1972	13.31	SEP. 28	10.82				

03S01W36BBD1. BUTCH KELLEY. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 98 FT. LSD 163 FT ABOVE MSL. MP TOP OF SMALL HOLE WEST SIDE OF PUMP BASE, 0.90 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 163.00 FEET.

HIGHEST WATER LEVEL 6.82 BELOW LSD, MAR. 5, 1974,  
LOWEST WATER LEVEL 18.21 BELOW LSD, SEP. 19, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 8, 1973	7.76	DEC. 6, 1973	16.07	APR. 2, 1974	8.20	SEP. 19, 1975	18.21
SEP. 28	14.24	MAR. 5, 1974	6.82	APR. 30	7.42	APR. 1, 1976	14.66
NOV. 5	16.96						

04N02W07CBC1. BRUCE TARKINGTON. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 20.7 FT. LSD 192 FT ABOVE MSL. MP TOP OF PITCHER, 2.50 FT ABOVE LSD.  
04-05-1976 WELL DESTROYED.  
ALTITUDE OF LAND SURFACE 192.00 FEET.

HIGHEST WATER LEVEL 10.58 BELOW LSD, APR. 4, 1975,  
LOWEST WATER LEVEL 14.50 BELOW LSD, JAN. 16, 1973.  
RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1973	14.50	MAY 10, 1973	11.01	DEC. 5, 1973	13.33	MAY 1, 1974	11.81
FEB. 6	13.87	SEP. 24	12.79	MAR. 6, 1974	12.10	APR. 4, 1975	10.58
MAR. 5	13.16	OCT. 29	13.18	APR. 3	12.04	SEP. 23	12.41
APR. 2	12.40						

04N02W11BCC1. DAVID BUSH. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, LSD 218 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 218.00 FEET.

HIGHEST WATER LEVEL 44.34 BELOW LSD, APR. 3, 1974,  
LOWEST WATER LEVEL 46.64 BELOW LSD, DEC. 7, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 18, 1973	47.87A	DEC. 7, 1973	46.64	MAY 1, 1974	45.30	SEP. 23, 1975	45.93
SEP. 24	45.76	MAR. 6, 1974	46.53	APR. 4, 1975	44.59	APR. 5, 1976	44.36
OCT. 29	46.61	APR. 3	44.34				

A--PUMPING WATER LEVEL.



TABLE 35.—MEASUREMENTS OF WATER LEVELS IN WELLS, MONROE COUNTY, ARK.—CONTINUED

04N02W29DDA1. DODSON JONES. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 192 FT ABOVE MSL. MP TOP OF PIPE, 3.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 192.00 FEET.

HIGHEST WATER LEVEL 21.45 BELOW LSD, MAY 10, 1973,  
 LOWEST WATER LEVEL 23.23 BELOW LSD, SEP. 23, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1973	22.59	MAY 10, 1973	21.45	MAR. 6, 1974	22.00	APR. 4, 1975	21.78
FEB. 6	22.54	SEP. 24	23.04	APR. 3	21.89	SEP. 23	23.23
MAR. 5	22.24	OCT. 29	23.11	MAY 1	21.80	APR. 5, 1976	22.13
APR. 2	22.05	DEC. 5	22.89				

04N02W30BBB1. BROWN. DRILLED TEST WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 4 IN, DEPTH 119 FT. LSD 185.16 FT ABOVE MSL. MP TOP OF CASING, 0.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 185.16 FEET.

HIGHEST WATER LEVEL 10.58 BELOW LSD, APR. 22, 1975,  
 LOWEST WATER LEVEL 12.54 BELOW LSD, OCT. 30, 1975.  
 RECORDS AVAILABLE 1975-76.  
 APR. 22, 1975 10.58, OCT. 30, 1975 12.54, APR. 5, 1976 11.87.

04N02W36DAB1. DODSON JONES. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 191 FT ABOVE MSL. MP HOLE IN PUMP BASE NORTHEAST SIDE, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 191.00 FEET.

HIGHEST WATER LEVEL 25.92 BELOW LSD, APR. 4, 1975,  
 LOWEST WATER LEVEL 31.96 BELOW LSD, SEP. 19, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1973	27.55	MAY 11, 1973	25.93	MAR. 7, 1974	26.91	APR. 4, 1975	25.92
FEB. 9	27.82	SEP. 24	30.28	APR. 3	26.45	SEP. 19	31.96
MAR. 6	26.77	OCT. 29	28.76	MAY 2	26.19	APR. 2, 1976	27.27
APR. 2	26.47	DEC. 7	28.21				

04N03W36BAC1. CARTER COMPANY. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. LSD 180 FT ABOVE MSL. MP HOLE NEXT TO PLASTIC HOSE IN CASING, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 180.00 FEET.

HIGHEST WATER LEVEL 6.56 BELOW LSD, MAY 10, 1973,  
 LOWEST WATER LEVEL 12.34 BELOW LSD, OCT. 29, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1973	9.74	MAY 10, 1973	6.56	MAR. 6, 1974	9.17	APR. 4, 1975	8.17
FEB. 6	8.75	SEP. 24	11.94	APR. 3	9.30	SEP. 23	11.38
MAR. 5	8.47	OCT. 29	12.34	MAY 1	9.03	APR. 5, 1976	9.59
APR. 2	7.73	DEC. 5	11.84				

TABLE 36.—CHEMICAL ANALYSES OF GROUND WATER, MONROE COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
343359091054901	095	01S01W34CAA1	GW	112TRRC	73-07-13	--	17.0	585	--
343823091085701	095	01S01W06DBH1	GW	112TRRC	74-07-19	--	17.0	590	3
344034091071001	095	01N01W21C0C1	GW	112TRRC	74-07-22	--	17.0	1510	3
	095		GW	112TRRC	73-07-13	--	17.0	1290	--
	095		GW	112TRRC	74-07-19	--	17.0	1330	2
344125091173601	095	01N03W23BAD1	GW	112TRRC	74-07-24	--	17.0	1190	5
344638091143701	095	02N02W20B8C1	GW	112TRRC	74-08-07	98	18.0	640	3
344739091091802	095	02N01W07C0C2	GW	112TRRC	74-07-24	--	16.5	1810	3
345040091142301	095	03N02W29CHA1	GW	112TRRC	74-08-07	113	17.0	1600	3
345459091091701	095	04N02W36DAB1	GW	112TRRC	74-07-23	--	17.0	1040	3
345558091134101	095	04N02W29DBA1	GW	112TRRC	74-08-07	--	18.0	255	3

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACU3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL SULFIDE (S) (MG/L)	HARDNESS (CA, MG) (MG/L)
343359091054901	73-07-13	580	--	--	--	--	--	--	--	--	--
	74-07-19	652	7.1	47	300	366	0	0.00	0.44	--	290
343823091085701	74-07-22	405	7.1	29	190	231	0	0.07	0.16	0.2	190
344034091071001	73-07-13	520	--	--	--	--	--	--	--	--	--
	74-07-19	556	7.2	32	262	319	0	0.00	0.59	0.1	270
344125091173601	74-07-24	386	7.4	14	176	214	0	0.00	0.32	--	170
344638091143701	74-08-07	1030	7.2	44	358	436	0	0.72	0.44	--	390
344739091091802	74-07-24	883	7.1	62	397	484	0	0.55	0.28	--	360
345040091142301	74-08-07	436	7.2	25	199	243	0	0.37	0.29	--	190
345459091091701	74-07-23	834	7.1	60	390	475	0	0.36	0.40	--	390
345558091134101	74-08-07	2750	7.4	30	381	465	0	0.02	0.28	--	130

TABLE 36.—CHEMICAL ANALYSES OF GROUND WATER, MONROE COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
343359091054901	73-07-13	--	--	--	--	--	--	--	--	--	--
	74-07-19	0	75	26	26	.7	16	2.0	19	30	.2
343823091085701	74-07-22	0	51	14	11	.4	11	1.9	6.8	19	.3
344034091071001	73-07-13	--	--	--	--	--	--	--	--	--	--
	74-07-19	8	75	20	15	.4	11	2.6	10	26	.2
344125091173601	74-07-24	0	51	11	11	.4	12	8.7	10	16	.2
344638091143701	74-08-07	32	100	34	65	1.4	26	5.1	110	25	.2
344739091091802	74-07-24	0	97	29	52	1.2	24	2.0	42	27	.2
345040091142301	74-08-07	0	50	16	16	.5	15	1.2	18	5.6	.2
345459091091701	74-07-23	0	100	33	25	.6	12	1.8	39	10	.2
345558091134101	74-08-07	0	35	9.3	530	21	90	7.3	660	4.8	.9

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
343359091054901	73-07-13	--	--	--	--	--	--
	74-07-19	36	2300	240	381	397	.52
343823091085701	74-07-22	40	2200	600	259	261	.35
344034091071001	73-07-13	--	--	--	--	--	--
	74-07-19	36	4600	610	332	347	.45
344125091173601	74-07-24	44	4100	2000	247	264	.34
344638091143701	74-08-07	35	4900	390	588	597	.80
344739091091802	74-07-24	31	2900	310	465	524	.63
345040091142301	74-08-07	38	2500	220	257	269	.35
345459091091701	74-07-23	34	2700	1000	473	482	.64
345558091134101	74-08-07	21	1700	70	1500	1500	2.04

TABLE 37.—RECORDS OF WELLS IN PHILLIPS COUNTY, ARK.

Type of site: W, well.  
 Principal Aquifer: 111ALWM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; S, stock; U, unused; Z, chemicals.  
 Remarks: L, water-level measurements included in report, see table 38; Q, chemical analyses of water included in report, see table 39.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
01S01E25DBC1	343429090571101	Billy Schaffhauser-	W	112TRRC	200	---	I	---	---	---	---	---	L
01S02E35DCD1	343522090535501	---	W	112TRRC	193	---	Z	---	---	---	---	---	L
01S03E03DAC1	343858090461801	Ray Dawson	W	112TRRC	207	120	I	16.5	724	8-22-74	400	8-22-74	Q
01S03E32BCD1	343346090490001	R. J. Young	W	112TRRC	199	---	I	---	---	---	---	---	L
01S04E33DBC1	343332090411501	Payne	W	112TRRC	223	---	I	---	---	---	---	---	L
02S01E28CCB1	342916091005801	L. G. Suddath	W	112TRRC	174	108	I	17.0	518	7-24-74	855	7-24-74	Q
02S03E15ACD1	343110090462101	Don R. Dearing	W	112TRRC	174	112	I	17.0	1,060	7-23-74	---	---	L
02S03E27CDD1	342858090464601	H. W. Rohrscheib	W	112TRRC	167	---	U	---	---	---	---	---	Q
02S04E28BBD1	342936090413501	St. Mary's School	W	111ALWM	182	35	U	---	---	---	---	---	L
02S04E29CCD1	342855090424601	---	W	111ALWM	175	---	U	---	---	---	---	---	L
03S01E01AAD1	342754090565401	---	W	112TRRC	183	53	U	---	---	---	---	---	L
03S02E01ACB1	342747090504701	Miller and Rohrscheib	W	112TRRC	167	---	I	17.0	712	7-19-74	1,425	7-19-74	Q
03S02E01DAD1	342730090502401	Roy Cox	W	112TRRC	167	---	I	---	---	---	---	---	L
03S02E36BDB1	342323090510501	Howe Lumber Co	W	112TRRC	166	---	I	17.0	688	7-19-74	1,173	7-19-74	Q
03S04E18BAC1	342508090433901	---	W	111ALWM	178	---	I	---	---	---	---	---	L
03S04E20CAB1	342452090423601	W. Spivey	W	111ALWM	175	104	U	---	---	---	---	---	L
03S05E06DDA1	342715090363901	Riverside Farms Est-	W	111ALWM	180	---	U	---	---	---	---	---	L
04S01E14CCD1	342013090585301	---	W	112TRRC	152	---	U	---	---	---	---	---	L
04S02E06BAA1	342246090562801	W. W. Swanner	W	112TRRC	157	---	I	17.0	590	7-17-73	1,525	7-17-73	L
04S02E20DDC1	341918090552701	---	W	111ALWM	157	30	U	---	---	---	---	---	L
04S02E22DBB1	341937090525601	Deane Roach	W	112TRRC	160	115	I	17.0	838	8-6-74	2,000	8-6-74	Q
04S02E28BAB1	341914090541701	Bill Oliver	W	111ALWM	157	26	U	---	---	---	---	---	L
05S01E07CBA1	341614091031301	Kinney	W	111ALWM	170	66	U	---	---	---	---	---	L
05S01E21ADD1	341434091001301	Joe Van	W	112TRRC	146	---	U	---	---	---	---	---	L
05S01E28CDA1	341325091005301	---	W	112TRRC	156	15	U	---	---	---	---	---	L
05S01W25DAD1	341331091033901	Kinney	W	112TRRC	154	---	U	---	---	---	---	---	L
05S02E18ABC1	341534090563001	Brook Griffith	W	111ALWM	145	---	S	---	---	---	---	---	L
06S01E16BAA1	341040091010701	Benny McCann	W	111ALWM	156	---	I	---	---	---	---	---	L
06S01E28AAA1	340851091004201	Billy Carter	W	112TRRC	157	140	I	17.5	664	8-6-74	2,300	8-6-74	Q
06S01E35DDB1	340733090590201	---	W	112TRRC	155	---	I	17.0	800	7-17-73	1,375	7-17-73	L
06S01W12BAB1	341121091041501	U.S. Corps of Engineers.	W	111ALWM	154	38	U	---	---	---	---	---	L
06S01W25DBC1	340816091040901	Brooks Griffith	W	111ALWM	150	24	U	---	---	---	---	---	L
06S01W25DBC1	340816091040901	Brooks Griffith	W	111ALWM	146	---	S	---	---	---	---	---	L

TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.

01S01E25DBC1. BILLY SCHAFFHAUSER. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 200 FT ABOVE MSL. MP END OF DISCHARGE PIPE, 2.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 200.00 FEET.

HIGHEST WATER LEVEL 20.77 BELOW LSD, APR. 2, 1975,  
 LOWEST WATER LEVEL 30.03 BELOW LSD, NOV. 5, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 22, 1973	23.06	DEC. 6, 1973	29.42	APR. 29, 1974	24.29	SEP. 23, 1975	26.31
OCT. 2	29.34	MAR. 5, 1974	24.23	APR. 2, 1975	20.77	APR. 1, 1976	24.00
NOV. 5	30.03	APR. 1	24.36				

01S02E33DCD1. DRILLED ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 2 IN. LSD 193 FT ABOVE MSL. MP END OF LOWER JET PIPE, 2.00 FT ABOVE LSD. WATER USED TO MIX CHEMICALS. ALTITUDE OF LAND SURFACE 193.00 FEET.

HIGHEST WATER LEVEL 13.61 BELOW LSD, APR. 4, 1973,  
 LOWEST WATER LEVEL 20.47 BELOW LSD, DEC. 6, 1973.  
 RECORDS AVAILABLE 1973.

JAN. 25, 1973 15.85, FEB. 8, 1973 15.09, MAR. 8, 1973 15.24, APR. 4, 1973 13.61,  
 MAY 18, 1973 13.63, DEC. 6, 1973 20.47.

01S03E32BCD1. R. J. YOUNG. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 199 FT ABOVE MSL. MP TOP OF HOLE IN PUMP BASE, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 199.00 FEET.

HIGHEST WATER LEVEL 19.73 BELOW LSD, APR. 2, 1975,  
 LOWEST WATER LEVEL 30.51 BELOW LSD, NOV. 6, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 19, 1973	24.54	MAY 18, 1973	20.77	MAR. 5, 1974	22.91	APR. 2, 1975	19.73
FEB. 12	21.61	OCT. 2	29.82	APR. 2	25.03	SEP. 23	28.23
MAR. 8	22.50	NOV. 6	30.51	APR. 30	22.85	MAR. 30, 1976	23.86
APR. 4	20.78						

01S04E33DBC1. PAYNE. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 6 IN. LSD 223 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 223.00 FEET.

HIGHEST WATER LEVEL 41.66 BELOW LSD, APR. 3, 1975,  
 LOWEST WATER LEVEL 49.05 BELOW LSD, OCT. 4, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 12, 1973	42.24	MAY 18, 1973	42.23	MAR. 5, 1974	42.72	APR. 3, 1975	41.66
MAR. 8	42.03	OCT. 4	49.05	APR. 2	43.41	SEP. 23	46.89
APR. 5	41.98	NOV. 1	48.74	APR. 30	42.97	APR. 1, 1976	42.80

TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.—CONTINUED

02S01E28CCB1. L. G. SUDDATH. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 11 IN, DEPTH 108 FT. LSD 174 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 174.00 FEET.

HIGHEST WATER LEVEL 6.06 BELOW LSD, APR. 1, 1975,  
 LOWEST WATER LEVEL 16.82 BELOW LSD, JUNE 23, 1955.  
 RECORDS AVAILABLE 1955, 1961-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUNE 23, 1955	16.82	APR. 13, 1964	13.01	MAR. 15, 1971	12.03	NOV. 5, 1973	12.04
APR. 17, 1961	10.08	APR. 12, 1965	12.71	MAR. 20, 1972	12.39	DEC. 6	11.85
AUG. 9	13.30	MAR. 15, 1966	14.08	OCT. 18	14.24	MAR. 5, 1974	9.61
NOV. 21	12.09	APR. 10, 1967	14.28	FEB. 13, 1973	11.23	APR. 2	9.83
FEB. 14, 1962	11.86	APR. 2, 1968	13.35	MAR. 8	10.63	APR. 30	9.54
APR. 16	10.94	MAR. 17, 1969	12.39	APR. 4	9.57	APR. 1, 1975	6.06
JUNE 7	12.37	MAR. 17, 1970	12.83	MAY 21	6.79	SEP. 19	10.79
AUG. 16	13.26	JULY 28	12.74	SEP. 28	11.63	APR. 1, 1976	9.91
APR. 15, 1963	11.64						

02S03E15ACD1. DON R. DEARING. DRILLED UNUSED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 112 FT. LSD 174 FT ABOVE MSL. MP TOP OF CASING EST SIDE, AT LSD. ALTITUDE OF LAND SURFACE 174.00 FEET.

HIGHEST WATER LEVEL 7.77 BELOW LSD, APR. 2, 1975,  
 LOWEST WATER LEVEL 15.85 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 21, 1972	12.52	APR. 4, 1973	8.50	DEC. 20, 1973	13.85	APR. 2, 1975	7.77
OCT. 20	15.29	MAY 18	8.19	MAR. 5, 1974	10.60	SEP. 22	13.78
FEB. 14, 1973	8.38	OCT. 2	15.82	APR. 2	11.45	MAR. 31, 1976	10.16
MAR. 7	8.98	NOV. 2	15.85	APR. 30	9.75		

02S03E27CDD1. H. W. ROHRSCHEIB. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 15 IN, LSD 167 FT ABOVE MSL. MP HOLE IN PUMP BASE SOUTH SIDE, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 167.00 FEET.

HIGHEST WATER LEVEL 7.86 BELOW LSD, APR. 2, 1975,  
 LOWEST WATER LEVEL 14.79 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	13.09	MAY 18, 1973	8.05	DEC. 21, 1973	13.99	APR. 2, 1975	7.86
FEB. 12	12.43	JULY 12	45.63A	MAR. 5, 1974	11.62	SEP. 22	14.29
MAR. 7	11.69	OCT. 2	14.69	APR. 2	11.91	MAR. 31, 1976	11.07
APR. 4	10.21	NOV. 2	14.79	APR. 30	10.65		

A--PUMPING WATER LEVEL.

02S04E28BBD1. ST. MARYS SCHOOL. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 35.1 FT. LSD 182 FT ABOVE MSL. MP TOP OF PITCHER, 3.80 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 182.00 FEET.

HIGHEST WATER LEVEL 8.82 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 10.64 BELOW LSD, JAN. 18, 1973.  
 RECORDS AVAILABLE 1973.

JAN. 18, 1973 10.64, FEB. 13, 1973 9.94, MAR. 7, 1973 9.59, APR. 3, 1973 9.19,  
 MAY 17, 1973 8.82.

TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.—CONTINUED

02S04E29CCD1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 175 FT ABOVE MSL. MP TOP OF PIPE, 0.90 FT ABOVE LSD. WELL DESTROYED, 04-29-74. ALTITUDE OF LAND SURFACE 175.00 FEET.

HIGHEST WATER LEVEL 8.99 BELOW LSD, MAR. 4, 1974.  
 LOWEST WATER LEVEL 11.12 BELOW LSD, NOV. 6, 1973.  
 RECORDS AVAILABLE 1973-74.

NOV. 6, 1973 11.12, DEC. 20, 1973 10.58, MAR. 4, 1974 8.99, APR. 2, 1974 9.18.

03S01E01AAD1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 52.5 FT. LSD 183 FT ABOVE MSL. MP TOP OF PITCHER, 2.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 183.00 FEET.

HIGHEST WATER LEVEL 18.00 BELOW LSD, APR. 1, 1975.  
 LOWEST WATER LEVEL 26.48 BELOW LSD, NOV. 5, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1973	22.94	MAY 21, 1973	18.08	MAR. 5, 1974	20.83	APR. 1, 1975	18.00
FEB. 13	22.28	OCT. 3	25.91	APR. 2	21.69	SEP. 23	24.13
MAR. 8	22.04	NOV. 5	26.48	APR. 30	21.40	APR. 1, 1976	21.67
APR. 4	20.14	DEC. 6	25.29				

03S02E01ACB1. MILLER AND ROHRSCHEIB. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 167 FT ABOVE MSL. MP TOP OF CASING NORTH SIDE, AT LSD. ALTITUDE OF LAND SURFACE 167.00 FEET.

HIGHEST WATER LEVEL 8.08 BELOW LSD, APR. 3, 1975.  
 LOWEST WATER LEVEL 15.48 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 12, 1973	46.53A	MAR. 4, 1974	9.89	APR. 30, 1974	10.28	SEP. 22, 1975	14.88
OCT. 2	15.44	APR. 1	11.62	APR. 3, 1975	8.08	MAR. 31, 1976	10.93
NOV. 2	15.48						

A--PUMPING WATER LEVEL.

03S02E01DAD1. ROY COX. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 167 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 167.00 FEET.

HIGHEST WATER LEVEL 4.78 BELOW LSD, MAY 18, 1973.  
 LOWEST WATER LEVEL 13.68 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1970, 1973.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 17, 1970	10.85	FEB. 13, 1973	9.59	APR. 4, 1973	7.73	OCT. 2, 1973	13.68
JAN. 25, 1973	11.02	MAR. 7	9.23	MAY 18	4.78	NOV. 2	13.29

TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.—CONTINUED

03S02E36BDB1. HOWE LUMBER COMPANY. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 20 IN. LSD 166 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 166.00 FEET.

HIGHEST WATER LEVEL 4.36 BELOW LSD, MAY 17, 1973,  
LOWEST WATER LEVEL 14.46 BELOW LSD, SEP. 23, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	10.02	MAY 17, 1973	4.36	MAR. 4, 1974	6.81	APR. 2, 1975	4.91
FEB. 13	8.33	OCT. 4	13.56	APR. 2	7.21	SEP. 23	14.46
MAR. 7	6.94	NOV. 2	12.48	APR. 30	6.26	MAR. 31, 1976	7.73
APR. 4	5.76	DEC. 21	11.32				

03S04E18BAC1. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 18 IN. LSD 178 FT ABOVE MSL. MP TOP OF CASING, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 178.00 FEET.

HIGHEST WATER LEVEL 11.93 BELOW LSD, APR. 3, 1975,  
LOWEST WATER LEVEL 15.38 BELOW LSD, APR. 19, 1972.  
RECORDS AVAILABLE 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 19, 1972	15.38	APR. 3, 1973	13.78	DEC. 20, 1973	14.23	APR. 3, 1975	11.93
JAN. 18, 1973	14.98	MAY 17	12.77	MAR. 4, 1974	13.15	SEP. 22	13.03
FEB. 13	14.60	OCT. 4	14.14	APR. 1	12.99	MAR. 31, 1976	13.32
MAR. 7	14.36	NOV. 2	14.35	APR. 29	12.78		

03S04E20CAB1. W. SPIVEY. DRILLED UNUSED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN, DEPTH 104 FT. LSD 175 FT ABOVE MSL. MP TOP OF HIGH POINT OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 175.00 FEET.

HIGHEST WATER LEVEL 7.70 BELOW LSD, MAY 17, 1973,  
LOWEST WATER LEVEL 11.67 BELOW LSD, MAR. 28, 1972.  
RECORDS AVAILABLE 1962, 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 14, 1962	8.75	MAR. 28, 1972	11.67	OCT. 4, 1973	11.04	APR. 29, 1974	8.88
MAR. 12	9.80	FEB. 12, 1973	11.25	NOV. 2	11.31	APR. 3, 1975	8.67
APR. 16	8.40	MAR. 8	10.87	DEC. 20	10.81	SEP. 23	10.39
JUNE 7	8.94	APR. 4	10.10	MAR. 4, 1974	9.09	MAR. 31, 1976	10.91
AUG. 16	10.33	MAY 17	7.70	APR. 1	9.12		

03S05E06DDA1. RIVERSIDE FARMS ESTATE. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 180 FT ABOVE MSL. MP TOP OF PITCHER, 2.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 180.00 FEET.

HIGHEST WATER LEVEL 3.59 BELOW LSD, MAY 17, 1973,  
LOWEST WATER LEVEL 18.20 BELOW LSD, OCT. 20, 1972.  
RECORDS AVAILABLE 1970, 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 18, 1970	14.22	MAR. 8, 1973	7.62	NOV. 2, 1973	14.52	APR. 29, 1974	6.55
MAR. 28, 1972	16.44	APR. 4	5.04	DEC. 20	11.95	APR. 3, 1975	6.65
OCT. 20	18.20	MAY 17	3.59	MAR. 4, 1974	6.24	SEP. 23	13.94
FEB. 12, 1973	7.79	OCT. 4	13.92	APR. 1	6.68	MAR. 31, 1976	10.86



TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.—CONTINUED

04S01E14CCD1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 152 FT ABOVE MSL. MP TOP OF PITCHER, 2.00 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 152.00 FEET.

HIGHEST WATER LEVEL 4.33 BELOW LSD, APR. 2, 1975,  
 LOWEST WATER LEVEL 8.28 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-75.  
 NOV. 2, 1973 8.28, DEC. 20, 1973 7.52, MAR. 4, 1974 5.37, APR. 1, 1974 5.53,  
 APR. 30, 1974 6.02, APR. 2, 1975 4.33.

04S02E06BAA1. W. W. SWANNER. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN. LSD 157 FT ABOVE MSL. MP HOLE IN PUMP BASE NORTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 157.00 FEET.

HIGHEST WATER LEVEL 5.83 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 13.09 BELOW LSD, OCT. 20, 1972.  
 RECORDS AVAILABLE 1965-70, 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 12, 1965	9.55	MAR. 21, 1972	11.54	MAY 17, 1973	5.83	APR. 2, 1974	9.24
MAR. 15, 1966	12.14	OCT. 20	13.09	JULY 17	39.04A	APR. 30	8.69
APR. 10, 1967	12.02	FEB. 13, 1973	10.73	OCT. 3	12.98	APR. 2, 1975	6.71
APR. 3, 1968	9.98	MAR. 7	9.85	NOV. 2	12.44	SEP. 23	12.02
MAR. 18, 1969	8.24	APR. 4	7.73	MAR. 4, 1974	8.47	APR. 1, 1976	10.46
MAR. 17, 1970	11.37						

A--PUMPING WATER LEVEL.

04S02E20DDC1. DRIVEN UNUSED DOMESTIC ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 29.8 FT. LSD 157 FT ABOVE MSL. MP TOP OF PITCHER, 3.20 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 157.00 FEET.

HIGHEST WATER LEVEL 3.94 BELOW LSD, MAR. 7, 1973,  
 LOWEST WATER LEVEL 9.08 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 18, 1973	4.97	MAR. 7, 1973	3.94	MAY 17, 1973	4.29	NOV. 2, 1973	9.08
FEB. 13	4.19	APR. 4	3.96	OCT. 3	8.92		

04S02E22DBB1. DEANE ROACH. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 115 FT. LSD 160 FT ABOVE MSL. MP TOP OF CASING, 0.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 160.00 FEET.

HIGHEST WATER LEVEL 6.64 BELOW LSD, APR. 2, 1975,  
 LOWEST WATER LEVEL 10.20 BELOW LSD, JULY 17, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 17, 1973	10.20	MAR. 4, 1974	7.58	APR. 29, 1974	7.31	SEP. 22, 1975	9.36
OCT. 3	9.18	APR. 1	8.24	APR. 2, 1975	6.64	APR. 1, 1976	7.21
NOV. 2	11.11C						

C--NEARBY WELL BEING PUMPED.

TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.—CONTINUED

04S02E28B8B1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 26.2 FT. LSD 157 FT ABOVE MSL. MP TOP OF PITCHER, 3.30 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 157.00 FEET.

HIGHEST WATER LEVEL 4.93 BELOW LSD, APR. 4, 1973,  
 LOWEST WATER LEVEL 6.01 BELOW LSD, JAN. 18, 1973.  
 RECORDS AVAILABLE 1973.  
 JAN.18, 1973 6.01, FEB.13, 1973 5.13, MAR. 7, 1973 5.12, APR. 4, 1973 4.93.

04S03E33B8B1. BILL OLIVER. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 65.8 FT. LSD 170 FT ABOVE MSL. MP TOP OF PITCHER, 3.70 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 170.00 FEET.

HIGHEST WATER LEVEL 0.05 ABOVE LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 15.37 BELOW LSD, OCT. 4, 1973.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 18, 1973	7.43	APR. 4, 1973	0.54	NOV. 2, 1973	14.37	APR. 1, 1974	5.03
FEB. 13	5.54	MAY 17	+ 0.05	DEC. 20	11.15	APR. 29	5.68
MAR. 7	7.03	OCT. 4	15.37	MAR. 4, 1974	4.92	APR. 3, 1975	1.67

05S01E07C8A1. KINNEY. DRIVEN UNUSED STOCK WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 146 FT ABOVE MSL. MP END OF PIPE ELBOW, 1.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 146.00 FEET.

HIGHEST WATER LEVEL 0.95 ABOVE LSD, APR. 1, 1974,  
 LOWEST WATER LEVEL 8.50 BELOW LSD, SEP. 22, 1975.  
 RECORDS AVAILABLE 1973-76.  
 OCT. 3, 1973 6.26, NOV. 1, 1973 7.99, APR. 1, 1974 + 0.95, SEP.22, 1975 8.50,  
 MAR.31, 1976 .2.99.

05S01E21ADD1. JOE VAN. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 15.4 FT. LSD 156 FT ABOVE MSL. MP BASE OF PITCHER, 5.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 156.00 FEET.

HIGHEST WATER LEVEL 6.07 BELOW LSD, APR. 3, 1975,  
 LOWEST WATER LEVEL 13.19 BELOW LSD, NOV. 6, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 6, 1973	13.19	MAR. 4, 1974	6.37	APR. 29, 1974	7.38	SEP. 22, 1975	12.68
DEC. 21	10.67	APR. 1	7.89	APR. 3, 1975	6.07	APR. 1, 1976	8.23

05S01E28C8A1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 154 FT ABOVE MSL. MP TOP OF PITCHER, 4.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 154.00 FEET.

HIGHEST WATER LEVEL 3.22 BELOW LSD, MAY 18, 1973,  
 LOWEST WATER LEVEL 7.48 BELOW LSD, JAN. 25, 1973.  
 RECORDS AVAILABLE 1973.  
 JAN.25, 1973 7.48, FEB.13, 1973 6.33, MAR. 8, 1973 6.32, APR. 3, 1973 4.77,  
 MAY 18, 1973 3.22.

TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.—CONTINUED

05S01W25DAD1. KINNEY. DRIVEN STOCK WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 2 IN. LSD 145 FT ABOVE MSL. MP TOP OF INTAKE COUPLING, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 145.00 FEET.

HIGHEST WATER LEVEL 0.57 ABOVE LSD, DEC. 21, 1973,  
 LOWEST WATER LEVEL 2.04 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-74.  
 JAN. 25, 1973 0.28, FEB. 14, 1973 + 0.18, MAR. 8, 1973 + 0.38, NOV. 1, 1973 2.04,  
 DEC. 21, 1973 + 0.57, MAR. 4, 1974 + 0.44.

05S02E18ABQ1. BROOKS GRIFFITH. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 156 FT ABOVE MSL. MP TOP OF COOLING WATER PIPE, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 156.00 FEET.

HIGHEST WATER LEVEL 8.00 BELOW LSD, APR. 17, 1961,  
 LOWEST WATER LEVEL 21.38 BELOW LSD, JAN. 24, 1967.  
 RECORDS AVAILABLE 1961-64, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 17, 1961	8.00	JULY 21, 1964	19.79	MAR. 16, 1971	9.96	NOV. 2, 1973	20.19
AUG. 9	17.52	SEP. 15	21.33	MAR. 21, 1972	15.18	DEC. 20	16.17
NOV. 21	16.83	NOV. 17	20.67	OCT. 20	20.32	MAR. 4, 1974	14.91
FEB. 14, 1962	10.50	JAN. 24, 1967	21.38	JAN. 18, 1973	14.36	APR. 1	15.59
APR. 16	9.41	APR. 10	13.68	FEB. 13	13.07	APR. 29	14.93
JUNE 7	11.21	MAY 29	12.71	MAR. 7	13.61	APR. 3, 1975	13.63
AUG. 16	17.94	APR. 3, 1968	9.10	APR. 3	12.28	SEP. 22	20.03
APR. 15, 1963	12.80	MAR. 18, 1969	13.55	MAY 18	11.47	APR. 1, 1976	15.67
APR. 13, 1964	13.41	MAR. 17, 1970	12.18	OCT. 3	20.62		

06S01E16BAA1. BENNY MCCAN. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 140 FT. LSD 157 FT ABOVE MSL. MP PUMP BASE NORTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 157.00 FEET.

HIGHEST WATER LEVEL 14.08 BELOW LSD, OCT. 3, 1973,  
 LOWEST WATER LEVEL 25.80 BELOW LSD, JULY 17, 1973.  
 RECORDS AVAILABLE 1973.  
 JULY 17, 1973 25.80, OCT. 3, 1973 14.08, NOV. 1, 1973 14.60.

06S01E28AAA1. BILLY CARTER. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 155 FT ABOVE MSL. MP HOLE IN CASING EAST SIDE, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 155.00 FEET.

HIGHEST WATER LEVEL 0.90 BELOW LSD, MAY 18, 1973,  
 LOWEST WATER LEVEL 17.47 BELOW LSD, APR. 10, 1967.  
 RECORDS AVAILABLE 1961-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 18, 1961	8.48	APR. 3, 1968	13.79	MAR. 7, 1973	4.10	MAR. 4, 1974	3.03
APR. 16, 1962	3.70	MAR. 18, 1969	8.72	APR. 3	2.53	APR. 1	4.19
APR. 15, 1963	16.03	MAR. 17, 1970	12.53	MAY 18	0.90	APR. 29	4.52
APR. 13, 1964	16.19	MAR. 16, 1971	8.02	OCT. 3	12.95	APR. 3, 1975	2.92
APR. 12, 1965	16.18	MAR. 21, 1972	13.03	NOV. 1	13.19	SEP. 22	12.52
MAR. 15, 1966	17.11	OCT. 20	15.29	DEC. 21	9.86	MAR. 31, 1976	6.13
APR. 10, 1967	17.47	FEB. 14, 1973	4.34				

TABLE 38.—MEASUREMENTS OF WATER LEVELS IN WELLS, PHILLIPS COUNTY, ARK.—CONTINUED

06S01E35DBB1. DRIVEN UNUSED DOMESTIC WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 37.5 FT. LSD 154 FT ABOVE MSL. MP TOP OF PIPE, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 154.00 FEET.

HIGHEST WATER LEVEL 1.10 ABOVE LSD, APR. 3, 1975,  
 LOWEST WATER LEVEL 17.40 BELOW LSD, OCT. 3, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	4.47	MAY 18, 1973 +	0.53	MAR. 4, 1974	2.21	APR. 3, 1975 +	1.10
FEB. 14	2.54	OCT. 3	17.40	APR. 1	3.38	SEP. 22	16.89
MAR. 7	4.39	NOV. 1	15.97	APR. 29	3.43	MAR. 31, 1976	7.32
APR. 3	0.23	DEC. 21	7.32				

06S01W12BA81. U. S. CORPS OF ENGINEERS. DRIVEN OBSERVATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 24 FT. LSD 150 FT ABOVE MSL. MP TOP OF PIPE, 5.10 FT ABOVE LSD. TOP OF PIPE IS 155.1 FT ABOVE MSL, DETERMINED BY INSTRUMENT. ALTITUDE OF LAND SURFACE 150.00 FEET.

HIGHEST WATER LEVEL 4.40 BELOW LSD, FEB. 14, 1973,  
 LOWEST WATER LEVEL 15.20 BELOW LSD, SEP. 22, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 14, 1973	4.40	OCT. 3, 1973	13.40	MAR. 4, 1974	6.50A	APR. 3, 1975	6.90A
MAR. 8	4.70	NOV. 1	11.60	APR. 1	9.20A	SEP. 22	15.20
APR. 3	6.20A	DEC. 21	5.70A	APR. 29	9.50A	APR. 1, 1976	8.20
MAY 18	2.10A						

A--PUMPING WATER LEVEL.

06S01W25DB81. BROOKS GRIFFITH. DRIVEN STOCK WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN. LSD 146 FT ABOVE MSL. MP TOP OF PIPE, 1.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 146.00 FEET.

HIGHEST WATER LEVEL 0.91 ABOVE LSD, APR. 3, 1975,  
 LOWEST WATER LEVEL 6.12 BELOW LSD, APR. 1, 1976.  
 RECORDS AVAILABLE 1973-76.

MAR. 8, 1973 3.13, MAR. 4, 1974 1.97, APR. 1, 1974 3.03, APR. 29, 1974 3.27,  
 APR. 3, 1975 + 0.91, APR. 1, 1976 6.12.

TABLE 39.—CHEMICAL ANALYSES OF GROUND WATER, PHILLIPS COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
341040091010701	107	06S01E16BAA1	GW	112TRRC	73-07-17	--	17.5	2320	--
341937090525601	107	04S02E22DBB1	GW	112TRRC	74-08-06	--	17.5	2300	3
342323090510501	107	03S02E368DB1	GW	112TRRC	73-07-17	--	17.0	2050	--
342747090504701	107	03S02E01ACB1	GW	112TRRC	74-08-06	--	17.0	2000	3
342858090464601	107	02S03E27CDD1	GW	112TRRC	74-07-19	--	17.0	1170	3
342916091005801	107	02S01E28CCB1	GW	112TRRC	73-07-12	--	17.0	1425	--
343858090461801	107	01S03E03DAC1	GW	112TRRC	74-07-19	--	17.0	1490	2
					73-07-12	--	17.0	2025	--
					74-07-23	--	17.0	1630	60
					74-07-24	108	17.0	850	4
					74-08-22	--	16.5	400	7

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCTANCE (MICRO-MHUS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CAC03 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)
341040091010701	73-07-17	640	--	--	--	--	--	--	--	--	--
341937090525601	74-08-06	664	7.2	42	340	415	0	0.03	0.09	--	--
342323090510501	74-08-06	838	7.2	44	355	433	0	0.08	0.15	0.0	--
342747090504701	74-07-19	688	7.2	40	329	401	0	0.04	0.19	--	--
342858090464601	73-07-12	650	--	--	--	--	--	--	--	--	--
342916091005801	74-07-23	960	--	44	358	436	0	0.25	0.14	0.0	--
	74-07-24	1060	7.2	60	488	595	0	1.7	0.47	--	--
		518	7.1	39	254	310	0	0.45	0.36	91	--
343858090461801	74-08-22	724	6.9	99	401	489	0	1.2	0.41	--	--

TABLE 39.—CHEMICAL ANALYSES OF GROUND WATER, PHILLIPS COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
341040091010701	73-07-17	--	--	94	27	12	.3	7	1.2	4.9	23
341937090525601	74-08-06	350	6	94	27	12	--	--	--	--	--
341937090525601	73-07-17	--	--	--	--	--	--	--	--	--	--
342323090510501	74-08-06	440	84	120	34	26	.5	11	2.0	9.1	110
342323090510501	74-07-19	320	0	85	25	28	.7	16	1.9	15	32
342747090504701	73-07-12	--	--	--	--	--	--	--	--	--	--
342747090504701	74-07-19	350	0	96	27	19	.4	10	2.3	12	19
342858090464601	73-07-12	--	--	--	--	--	--	--	--	--	--
342916091005801	74-07-23	490	5	120	47	47	.9	17	3.3	29	66
342916091005801	74-07-24	230	0	58	21	17	.5	14	2.4	16	3.5
343858090461801	74-08-22	360	0	82	38	19	.4	10	2.1	6.8	3.5

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
341040091010701	73-07-17	--	--	--	--	--	--	--
341040091010701	74-08-06	.2	34	4600	350	390	406	.53
341937090525601	73-07-17	--	--	--	--	--	--	--
341937090525601	74-08-06	.3	34	5700	450	527	555	.72
342323090510501	74-07-19	.2	36	3000	0	410	424	.56
342747090504701	73-07-12	--	--	--	--	--	--	--
342747090504701	74-07-19	.2	32	2400	240	409	426	.56
342858090464601	73-07-12	--	--	--	--	--	--	--
342858090464601	74-07-23	.3	31	5700	90	625	650	.85
342916091005801	74-07-24	.2	37	3700	350	299	314	.41
343858090461801	74-08-22	.2	31	6100	170	392	435	.53

TABLE 40.— RECORDS OF TEST HOLES AND WELLS IN POINSETT COUNTY, ARK.

Type of site: T, test hole; W, well.  
 Principal aquifer: 111ALVM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Remarks: G, lithologic log included in report, see table 42; L, water-level measurements included in report, see table 41; Q, chemical analyses of water included in report, see table 43.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharged measured	Remarks
10N01E15DBB1	552930090582501	-----	W	112TRRC	221	---	I	17.0	550	6- 3-70	---	---	Q
10N01E22CAB1	552839090583801	-----	W	112TRRC	230	---	I	16.6	792	6-26-74	1,420	6-26-74	Q
10N01E27BAB1	552812090584001	W. H. Ball	W	112TRRC	233	120	I	---	---	---	---	---	L
10N02E27BBB1	552817090523501	Roy Shepherd	W	112TRRC	236	130	I	16.1	---	6-25-74	1,520	6-25-74	L, Q,
10N03E14DAA1	552946090440101	Carl Miller	W	112TRRC	270	165	I	16.9	692	6-25-74	620	6-25-74	Q,
11N01E10CBB1	553556090585901	-----	W	112TRRC	230	---	I	16.4	614	6-28-74	1,000	6-28-74	L
11N01E21CBC1	553403091000201	-----	W	112TRRC	230	---	I	---	---	---	---	---	L
11N01E24DCB1	553403090560701	Hamp Woods	W	112TRRC	237	---	I	17.0	580	7-26-73	582	7-26-73	L
11N02E21DAB1	553417090523801	-----	W	112TRRC	240	---	I	16.3	697	6-26-74	1,600	6-26-74	L
11N02E26AAB1	553349090503501	Anton Bornhofs	W	112TRRC	241	158	I	16.8	780	7-25-73	---	---	L
11N03E22DD1	553539090445701	-----	W	112TRRC	245	126	I	16.5	600	8- 3-73	853	8- 3-73	L
12N01E11CBG1	354106090575101	W. L. Craft	W	112TRRC	235	---	I	16.5	730	8- 1-73	1,279	8- 1-73	L
12N01E18AAB1	354040091012101	Foster Brothers	W	112TRRC	241	---	I	---	---	---	---	---	L
12N02E28DCC2	353819091525601	Ernest Houghe	W	112TRRC	246	---	I	16.5	590	7-26-73	1,309	7-26-73	L
12N02E33BCC1	553749090533201	-----	T	112TRRC	246	186	U	---	---	---	---	---	G
12N03E22BBB1	553954090455101	James Hubbard	W	112TRRC	247	---	I	16.7	850	7-25-73	1,330	7-25-73	Q,
12N03E31BBB1	553812091485801	Charles Cooper	W	111ALVM	246	---	I	17.0	770	7-25-73	1,545	7-25-73	L
12N04E18CCC1	553954090424101	Wilson	W	112TRRC	245	160	I	---	---	---	---	---	L
12N04E19DCA1	553906090415501	-----	W	112TRRC	256	---	I	16.9	---	6-26-74	800	6-26-74	L

TABLE 41.—MEASUREMENTS OF WATER LEVELS IN WELLS, POINSETT COUNTY, ARK.

10N01E27BAB1. W. H. BALL. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 120 FT. LSD 233 FT ABOVE MSL. MP TOP OF CASING ON NORTH SIDE, 0.50 FT ABOVE MSL.  
ALTITUDE OF LAND SURFACE 233.00 FEET.

HIGHEST WATER LEVEL 34.73 BELOW LSD, APR. 24, 1953,  
LOWEST WATER LEVEL 56.24 BELOW LSD, OCT. 1, 1975.  
RECORDS AVAILABLE 1953-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 24, 1953	34.73	APR. 18, 1961	43.25	APR. 9, 1968	48.35	OCT. 4, 1973	54.76
APR. 20, 1954	36.90	APR. 17, 1962	43.36	MAR. 20, 1969	50.13	NOV. 2	54.71
APR. 21, 1955	38.44	APR. 16, 1963	44.25	MAR. 30, 1970	51.32	MAR. 5, 1974	54.27
APR. 17, 1956	39.90	APR. 17, 1964	46.20	MAR. 26, 1971	52.18	APR. 2	54.01
APR. 15, 1957	41.60	APR. 13, 1965	47.13	APR. 3, 1972	52.21	APR. 4, 1975	55.03
APR. 15, 1958	41.86	MAR. 16, 1966	46.97	OCT. 25	54.05	OCT. 1	56.24
APR. 20, 1959	45.65	NOV. 16	47.84	APR. 2, 1973	53.50	MAR. 9, 1976	55.53
APR. 4, 1960	42.20	APR. 11, 1967	55.51	MAY 3	53.46		

10N02E27BBB1. ROY SHEPHERD. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN. LSD 236 FT ABOVE MSL. MP TOP OF CASING ON WEST SIDE 0.40 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 236.00 FEET.

HIGHEST WATER LEVEL 59.98 BELOW LSD, APR. 2, 1973,  
LOWEST WATER LEVEL 63.98 BELOW LSD, OCT. 1, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 2, 1973	59.98	NOV. 2, 1973	61.74	JUNE 25, 1974	79.39A	OCT. 1, 1975	63.98
MAY 3	60.31	MAR. 5, 1974	61.28	APR. 4, 1975	62.62	MAR. 9, 1976	63.07
OCT. 4	61.94	APR. 2	61.22				

A--PUMPING WATER LEVEL.

10N03E14DAA1. CARL MILLER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 165 FT, CASING 0-125, SCREENED 125-165 FT. LSD 270 FT ABOVE MSL. MP END OF DISCHARGE, 9.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 270.00 FEET.

HIGHEST WATER LEVEL 79.45 BELOW LSD, APR. 15, 1959,  
LOWEST WATER LEVEL 94.57 BELOW LSD, SEP. 15, 1975.  
RECORDS AVAILABLE 1957-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1957	80.80	JULY 23, 1958	81.37	APR. 6, 1960	81.20	APR. 11, 1967	89.75
FEB. 13	80.45	AUG. 6	84.04	MAY 3	81.13	APR. 8, 1968	90.37
MAR. 21	79.88	SEP. 16	81.48	SEP. 22	85.09	MAR. 20, 1969	88.37
APR. 18	80.46	OCT. 16	81.12	OCT. 19	85.21	APR. 1, 1970	88.80
MAY 15	80.08	NOV. 19	81.01	NOV. 17	85.12	MAR. 22, 1971	90.04
JUNE 19	79.81	DEC. 17	80.74	DEC. 14	85.01	APR. 4, 1972	94.45
JULY 16	81.83	JAN. 22, 1959	81.13	JAN. 16, 1961	84.37	OCT. 26	92.30
AUG. 18	91.97	FEB. 12	80.89	APR. 18	82.31	APR. 2, 1973	91.16
OCT. 16	81.73	MAR. 12	79.54	NOV. 29	83.41	MAY 3	91.40
NOV. 21	81.25	APR. 15	79.45	FEB. 13, 1962	83.97	SEP. 22	92.98
DEC. 11	81.13	MAY 18	79.68	APR. 17	82.75	OCT. 30	91.19
JAN. 28, 1958	80.48	SEP. 22	81.43	OCT. 22	84.02	MAR. 5, 1974	92.33
FEB. 12	80.48	OCT. 21	82.27	DEC. 12	84.42	APR. 2	92.04
FEB. 12	80.66	NOV. 18	82.20	FEB. 21, 1963	84.13	MAY 1	92.25
MAR. 11	80.48	DEC. 24	82.07	APR. 16	83.37	APR. 1, 1975	92.44
APR. 17	79.96	JAN. 26, 1960	81.85	APR. 17, 1964	84.79	SEP. 15	94.57
MAY 13	79.98	FEB. 17	81.64	APR. 13, 1965	87.13	MAR. 11, 1976	94.08
JUNE 12	81.56	MAR. 17	81.48	NOV. 17, 1966	87.83		



TABLE 41.—MEASUREMENTS OF WATER LEVELS IN WELLS, POINSETT COUNTY, ARK.—CONTINUED

11N01E21C8C1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 230 FT ABOVE MSL. MP TOP OF CASING ON WEST SIDE, 0.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 430.00 FEET.

HIGHEST WATER LEVEL 38.86 BELOW LSD, APR. 30, 1974,  
 LOWEST WATER LEVEL 3952.00 BELOW LSD, MAR. 73, 19 .  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 26, 1973	44.96	MAR. 5, 1974	39.42	APR. 30, 1974	38.86	SEP. 25, 1975	48.37
NOV. 2	42.29	APR. 2	38.96	APR. 2, 1975	40.21	MAR. 10, 1976	42.62
DEC. 6	41.47						

11N01E24DCB1. HAMP WOODS. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 237 FT ABOVE MSL. MP BOTTOM OF LARGE OPENING ON NORTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 237.00 FEET.

HIGHEST WATER LEVEL 57.62 BELOW LSD, APR. 2, 1974,  
 LOWEST WATER LEVEL 60.14 BELOW LSD, SEP. 18, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 26, 1973	65.96A	DEC. 6, 1973	58.62	APR. 2, 1974	57.62	SEP. 18, 1975	60.14
OCT. 4	58.36	MAR. 5, 1974	57.86	APR. 2, 1975	59.50	MAR. 9, 1976	59.63
OCT. 29	57.99						

A--PUMPING WATER LEVEL.

11N02E26AAB1. ANTON BORNHOFT. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 158 FT. LSD 241 FT ABOVE MSL. MP HOLE IN PUMP BASE ON NORTH SIDE, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 241.00 FEET.

HIGHEST WATER LEVEL 51.47 BELOW LSD, APR. 17, 1958,  
 LOWEST WATER LEVEL 67.26 BELOW LSD, SEP. 25, 1975.  
 RECORDS AVAILABLE 1958-59, 1961-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 17, 1958	51.47	MAR. 16, 1966	60.11	APR. 4, 1972	61.08	MAR. 5, 1974	63.91
APR. 22, 1959	51.86	NOV. 17	57.74	OCT. 26	63.88	APR. 2	63.63
APR. 18, 1961	57.40	APR. 11, 1967	59.61	APR. 2, 1973	62.99	APR. 30	64.84
APR. 17, 1962	53.80	APR. 9, 1968	58.10	MAY 3	63.33	APR. 2, 1975	64.79
APR. 16, 1963	53.19	MAR. 20, 1969	58.10	JULY 25	69.58A	SEP. 25	67.26
APR. 15, 1964	52.84	MAR. 30, 1970	62.82	SEP. 26	62.75	MAR. 9, 1976	66.32
APR. 13, 1965	55.22	MAR. 29, 1971	60.44	OCT. 29	64.22		

A--PUMPING WATER LEVEL.

TABLE 41.—MEASUREMENTS OF WATER LEVELS IN WELLS, POINSETT COUNTY, ARK.—CONTINUED

11N03E22DDD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 20 IN, DEPTH 126 FT. LSD 245 FT ABOVE MSL. MP PLUG IN NORTHEAST SIDE OF PUMP, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 245.00 FEET.

HIGHEST WATER LEVEL 53.12 BELOW LSD, APR. 19, 1956,  
 LOWEST WATER LEVEL 89.48 BELOW LSD, AUG. 21, 1973.  
 RECORDS AVAILABLE 1955-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 29, 1955	53.14	APR. 17, 1962	57.30	MAR. 20, 1969	63.73	SEP. 26, 1973	68.72
DEC. 22	53.74	APR. 16, 1963	57.94	APR. 1, 1970	64.49	NOV. 2	68.54
APR. 19, 1956	53.12	APR. 17, 1964	58.34	MAR. 29, 1971	64.81	MAR. 5, 1974	67.87
APR. 18, 1957	54.57	APR. 13, 1965	60.32	APR. 4, 1972	67.07	APR. 3	67.32
APR. 17, 1958	54.90	MAR. 16, 1966	60.35	OCT. 26	67.39	APR. 30	67.67
APR. 22, 1959	55.40	NOV. 15	61.75	APR. 2, 1973	66.68	APR. 1, 1975	68.47
APR. 6, 1960	55.74	APR. 11, 1967	60.94	MAY 3	67.92	SEP. 18	70.13
APR. 18, 1961	56.85	APR. 9, 1968	62.44	AUG. 21	89.48	MAR. 9, 1976	69.26

12N01E11CBC1. W. L. CRAFT. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 235 FT ABOVE MSL. MP TOP OF CASING ON SOUTH SIDE, 0.80 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 235.00 FEET.

HIGHEST WATER LEVEL 36.27 BELOW LSD, APR. 4, 1974,  
 LOWEST WATER LEVEL 38.34 BELOW LSD, SEP. 27, 1973.  
 RECORDS AVAILABLE 1973-74.

AUG. 1, 1973 36.74A, SEP. 27, 1973 38.34, NOV. 6, 1973 37.79, MAR. 6, 1974 37.44,  
 APR. 4, 1974 36.27.

A--PUMPING WATER LEVEL.

12N01E18AAB1. FOSTER BROTHERS. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 241 FT ABOVE MSL. MP 3.25 IN HOLE IN EAST SIDE OF PUMP, 0.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 241.00 FEET.

HIGHEST WATER LEVEL 21.04 BELOW LSD, MAY 4, 1973,  
 LOWEST WATER LEVEL 28.47 BELOW LSD, SEP. 29, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 2, 1973	25.03	MAY 4, 1973	21.04	MAR. 6, 1974	24.84	APR. 3, 1975	24.96
MAR. 15	24.39	SEP. 27	27.16	APR. 4	23.83	SEP. 29	28.47
APR. 3	23.89	NOV. 6	26.75	APR. 30	23.24	MAR. 10, 1976	26.02

12N02E28DCC2. ERNEST HOUGE. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 28 IN. LSD 246 FT ABOVE MSL. MP HOLE IN BASE OF PUMP, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 246.00 FEET.

HIGHEST WATER LEVEL 62.87 BELOW LSD, APR. 3, 1973,  
 LOWEST WATER LEVEL 66.52 BELOW LSD, MAR. 11, 1976.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 15, 1973	63.08	JULY 26, 1973	71.94A	MAR. 5, 1974	62.99	APR. 2, 1975	64.43
APR. 3	62.87	OCT. 4	64.50	APR. 3	63.59	SEP. 25	66.31
MAY 4	63.25	NOV. 2	64.73	APR. 30	63.73	MAR. 11, 1976	66.52

A--PUMPING WATER LEVEL.

TABLE 41.—MEASUREMENTS OF WATER LEVELS IN WELLS, POINSETT COUNTY, ARK.—CONTINUED

12N03E2288B1. JAMES HUBBARD. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN. LSD 247 FT ABOVE MSL. MP TOP OF CASING ON NORTH SIDE, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 247.00 FEET.

HIGHEST WATER LEVEL 63.85 BELOW LSD, MAY 4, 1973,  
 LOWEST WATER LEVEL 68.56 BELOW LSD, OCT. 4, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 4, 1973	63.85	NOV. 2, 1973	65.90	JUNE 26, 1974	68.86A	SEP. 25, 1975	67.79
JULY 25	68.84A	MAR. 5, 1974	65.05	APR. 1, 1975	65.74	MAR. 11, 1976	68.04
OCT. 4	68.56	APR. 3	64.66				

A--PUMPING WATER LEVEL.

12N03E3188A1. CHARLES COOPER. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 18 IN. LSD 246 FT ABOVE MSL. MP HOLE IN BASE OF PUMP, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 246.00 FEET.

HIGHEST WATER LEVEL 66.25 BELOW LSD, MAY 4, 1973,  
 LOWEST WATER LEVEL 70.62 BELOW LSD, MAR. 11, 1976.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 4, 1973	66.25	NOV. 2, 1973	68.07	APR. 30, 1974	66.82	SEP. 25, 1975	69.78
JULY 25	83.00A	MAR. 5, 1974	66.98	APR. 2, 1975	67.74	MAR. 11, 1976	70.62
OCT. 4	68.50	APR. 3	66.52				

A--PUMPING WATER LEVEL.

12N04E18CCC1. WILSON. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 160 FT. LSD 245 FT ABOVE MSL. MP TOP OF CASING ON SOUTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 2450.00 FEET.

HIGHEST WATER LEVEL 56.20 BELOW LSD, DEC. 11, 1969,  
 LOWEST WATER LEVEL 63.02 BELOW LSD, MAR. 11, 1976.  
 RECORDS AVAILABLE 1969-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 11, 1969	56.20	OCT. 26, 1972	59.64	NOV. 2, 1973	59.73	APR. 1, 1975	59.79
APR. 1, 1970	55.35	APR. 2, 1973	57.64	MAR. 5, 1974	58.44	SEP. 25	60.83
MAR. 29, 1971	56.70	MAY 4	58.12	APR. 3	58.07	MAR. 11, 1976	63.02
APR. 4, 1972	57.56	OCT. 4	58.69	APR. 30	58.34		

TABLE 42.--LOG OF TEST HOLES AND WELLS

POINSETT COUNTY, ARKANSAS

353749090533201. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 22, 1975  
 LAND SURFACE ALTITUDE 246 FT.

LOCATION: 12N02E33BCC1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	2.0	2.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, MOTTLED YELLOW AND GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	6.0	8.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	9.0	17.0
SAND, FINE TO MEDIUM-----	35.0	52.0
SAND, MEDIUM; CONTAINS SOME CALCITIC GRAINS -----	16.0	68.0
SAND, MEDIUM TO COARSE; CONTAINS SOME CALCITIC GRAINS -----	7.0	75.0
SAND, COARSE, CONTAINS SOME CALCITIC GRAINS -----	23.0	98.0
SAND, COARSE, SOME VERY COARSE SAND AND FINE GRAVEL; CONTAINS SOME CALCITIC GRAINS --	20.0	118.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	13.0	131.0
SAND, VERY COARSE, GRAVELLY -----	3.0	134.0
SILT(?), NO SAMPLE RECOVERY -----	5.0	139.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	10.0	149.0
GRAVEL, SANDY -----	20.0	169.0
TERTIARY DEPOSITS:		
CLAY, SILTY, GLAUCONTIC, INTERBEDDED WITH FINE TO MEDIUM SAND-----	17.0	186.0

TABLE 43.—CHEMICAL ANALYSES OF GROUND WATER, POINSETT COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
352817090523501	111	10N02E2788B1	GW	112TRRC	74-06-25	--	16.1	1520	2
352839090583801	111	10N01E22CAB1	GW	112TRRC	74-06-28	--	16.5	1000	3
352930090582501	111	10N01E15D8B1	GW	112TRRC	70-06-03	--	17.0	--	0
352946090440101	111	10N03E14DAA1	GW	112TRRC	74-06-25	165	16.9	620	1
353417090523801	111	11N02E21DAB1	GW	112TRRC	74-06-26	--	16.3	1600	2
353556090585901	111	11N01E10CBB1	GW	112TRRC	74-06-28	--	16.4	1000	3
353906090415501	111	12N04E19DCAL	GW	112TRRC	74-06-26	--	16.9	800	2
353954090455101	111	12N03E2288B1	GW	112TRRC	73-07-25	--	16.7	1330	--
	111		GW	112TRRC	74-06-26	--	16.6	1420	2

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE (MG/L)	ALKA-LINITY AS CAC03 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL SUL-FIDE (S) (MG/L)
352817090523501	74-06-25	726	7.5	23	379	462	0	--	.00	.09	--
352839090583801	74-06-28	815	7.3	34	351	428	0	--	.58	.52	--
352930090582501	70-06-03	550	7.4	22	279	340	0	.02	--	.00	--
352946090440101	74-06-25	692	7.6	14	290	353	0	--	.09	.19	--
353417090523801	74-06-26	697	7.5	20	331	403	0	--	.01	--	--
353556090585901	74-06-28	614	7.8	8.4	273	333	0	--	.59	.59	--
353906090415501	74-06-26	473	7.4	18	232	283	0	--	.01	.10	.9
353954090455101	73-07-25	850	--	--	--	--	--	--	--	--	--
	74-06-26	792	7.5	19	313	382	0	--	.05	.24	.0

TABLE 43.--CHEMICAL ANALYSES OF GROUND WATER, POINSETT COUNTY, ARK.--CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS- SOLVED FLUORIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CADMIUM (CD) (UG/L)	DIS- SOLVED CHROMIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)
352817090523501	74-06-25	.2	36	--	--	--	--	2000	--	370	--
352839090583801	74-06-28	.2	33	--	--	--	--	6900	--	500	--
352930090582501	70-06-03	.0	16	0	0	10	0	1900	0	150	0
352946090440101	74-06-25	.1	35	--	--	--	--	80	--	140	--
353417090523801	74-06-26	.2	36	--	--	--	--	--	--	--	--
353556090585901	74-06-28	.2	33	--	--	--	--	4200	--	520	--
353906090415501	74-06-26	.2	35	--	--	--	--	1500	--	220	--
353954090455101	73-07-25	--	--	--	--	--	--	--	--	--	--
	74-06-26	.1	33	--	--	--	--	3700	--	280	--

STATION NUMBER	DATE OF SAMPLE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS- SOLVED CALCIUM (CA) (MG/L)	DIS- SOLVED MAGNESIUM (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS- SOLVED POTASSIUM (K) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
352817090523501	74-06-25	340	0	92	27	28	.7	15	1.3	14	8.8
352839090583801	74-06-28	400	47	110	30	25	.5	12	2.3	22	60
352930090582501	70-06-03	180	0	49	14	51	1.7	38	3.2	15	.2
352946090440101	74-06-25	340	54	88	30	18	.4	10	1.2	10	75
353417090523801	74-06-26	220	0	49	23	28	.8	22	1.3	17	30
353556090585901	74-06-28	240	0	69	17	34	1.0	23	2.3	30	9.4
353906090415501	74-06-26	230	0	65	16	12	.3	10	.7	9.8	16
353954090455101	73-07-25	--	--	--	--	--	--	--	--	--	--
	74-06-26	380	66	99	32	22	.5	11	1.0	40	48

TABLE 43.—CHEMICAL ANALYSES OF GROUND WATER, POINSETT COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	DATE OF SAMPLE	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS PER AC-FT (TONS)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED GROSS ALPHA AS -U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)
352817090523501	74-06-25	74-06-25	--	--	412	437	.56	--	--	--
352839090583801	74-06-28	74-06-28	--	--	478	503	.65	--	--	--
352930090582501	70-06-03	70-06-03	.00	.00	339	318	--	.03	<5.1	5.2
352946090440101	74-06-25	74-06-25	--	--	421	432	.57	--	--	--
353417090523801	74-06-26	74-06-26	--	--	402	383	.55	--	--	--
353556090585901	74-06-28	74-06-28	--	--	347	366	.47	--	--	--
353906090415501	74-06-26	74-06-26	--	--	269	296	.37	--	--	--
353954090455101	73-07-25	73-07-25	--	--	--	--	--	--	--	--
	74-06-26	74-06-26	--	--	465	468	.63	--	--	--

STATION NUMBER	DATE OF SAMPLE	DATE OF SAMPLE	TOTAL LINDANE (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL 2,4-D (UG/L)
352817090523501	74-06-25	74-06-25	--	--	--	--	--	--	--	--	--	--
352839090583801	74-06-28	74-06-28	--	--	--	--	--	--	--	--	--	--
352930090582501	70-06-03	70-06-03	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00
352946090440101	74-06-25	74-06-25	--	--	--	--	--	--	--	--	--	--
353417090523801	74-06-26	74-06-26	--	--	--	--	--	--	--	--	--	--
353556090585901	74-06-28	74-06-28	--	--	--	--	--	--	--	--	--	--
353906090415501	74-06-26	74-06-26	--	--	--	--	--	--	--	--	--	--
353954090455101	73-07-25	73-07-25	--	--	--	--	--	--	--	--	--	--
	74-06-26	74-06-26	--	--	--	--	--	--	--	--	--	--

TABLE 43.—CHEMICAL ANALYSES OF GROUND WATER, POINSETT COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRONTIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TRITIUM IN WATER MOLECULES (UNITS)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L) 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ALDRIN (UG/L)
352817090523501	74-06-25	--	--	--	--	--	--	--	--	--	--
352839090583801	74-06-28	--	--	--	--	--	--	--	--	--	--
352930090582501	70-06-03	30	480	0	10	<.7	.63	0	0	0	.00
352946090440101	74-06-25	--	--	--	--	--	--	--	--	--	--
353417090523801	74-06-26	--	--	--	--	--	--	--	--	--	--
353556090585901	74-06-28	--	--	--	--	--	--	--	--	--	--
353906090415501	74-06-26	--	--	--	--	--	--	--	--	--	--
353954090455101	73-07-25	--	--	--	--	--	--	--	--	--	--
	74-06-26	--	--	--	--	--	--	--	--	--	--



TABLE 44.—RECORDS OF WELLS IN PRAIRIE COUNTY, ARK.

Use of water: H, domestic; I, irrigation; U, unused.  
 Remarks: L, water-level measurements included in report, see table 45;  
 Q, chemical analyses of water included in report, see table 46.

Type of site: W, well.  
 Principal aquifer: 111ALVM, alluvium of Quaternary age; 112TRRC, terrace deposits  
 of Quaternary age.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
02N04W02BDB1	344918091240 01	-----	W	112TRRC	181	17	U	---	---	---	---	---	L
02N04W16BCB1	344737091262001	Michael Hill	W	112TRRC	181	17	H	---	---	---	---	---	L
02N04W16BCB2	344739091262101	Duncan	W	112TRRC	182	---	U	---	---	---	---	---	L
03N04W03AAC1	345439091242301	Plunkett Farms	W	112TRRC	187	106	I	---	---	---	1,124	7-18-73	L
03N04W34ABB1	345021091244901	C. F. Betzner	W	112TRRC	191	---	I	---	---	---	---	---	L
03N04W36BAD1	345017091224801	Roger Farris	W	112TRRC	188	---	I	---	---	---	---	---	L
04N04W04BBB1	350030091260501	Herbert Pitts	W	111ALVM	184	---	I	17.0	360	7-18-73	1,178	6-27-74	Q, L
04N04W07ADB1	345858091273001	Raymond Carlock, Jr.	W	112TRRC	195	41	U	---	---	---	---	---	L
04N04W07ADC1	345851091273201	Gardner Estate	W	112TRRC	195	---	I	---	---	---	835	7-24-73	L
04N04W34DDC1	345453091242501	Plunkett Farms	W	111ALVM	187	100	I	17.0	624	7-18-74	1,424	7-18-74	Q, L

TABLE 45.—MEASUREMENTS OF WATER LEVELS IN WELLS, PRAIRIE COUNTY, ARK.

02N04W02BDB1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 16.5 FT. LSD 181 FT ABOVE MSL. MP TOP OF PITCHER, 2.50 FT ABOVE MSL. WELL DESTROYED 5-17-73. ALTITUDE OF LAND SURFACE 181.00 FEET.

HIGHEST WATER LEVEL 11.52 BELOW LSD, APR. 2, 1973,  
 LOWEST WATER LEVEL 14.00 BELOW LSD, JAN. 17, 1973.  
 RECORDS AVAILABLE 1973.  
 JAN. 17, 1973 14.00, FEB. 7, 1973 13.23, MAR. 5, 1973 12.44, APR. 2, 1973 11.52.

02N04W16BCB1. MICHAEL HILL. DRIVEN DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 16.5 FT. LSD 181 FT ABOVE MSL. MP TOP OF PIPE, 0.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 181.00 FEET.

HIGHEST WATER LEVEL 4.09 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 14.88 BELOW LSD, OCT. 30, 1973.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1973	10.70	APR. 2, 1973	6.33	OCT. 30, 1973	14.88	APR. 5, 1974	9.19
FEB. 7	9.34	MAY 17	4.09	DEC. 5	6.04	MAY 3	8.81
MAR. 5	9.38	SEP. 28	11.72	MAR. 7, 1974	7.87	MAR. 31, 1975	4.67

02N04W16BCB2. MRS. DUNCAN. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN. LSD 182 FT ABOVE MSL. MP TOP OF PIPE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 182.00 FEET.

HIGHEST WATER LEVEL 15.87 BELOW LSD, APR. 2, 1976,  
 LOWEST WATER LEVEL 19.44 BELOW LSD, SEP. 24, 1975.  
 RECORDS AVAILABLE 1975-76.  
 SEP. 24, 1975 19.44, APR. 2, 1976 15.87.

03N04W03AAC1. PLUNKETT FARMS. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 15 IN. LSD 187 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 187.00 FEET.

HIGHEST WATER LEVEL 18.21 BELOW LSD, MAR. 31, 1975,  
 LOWEST WATER LEVEL 22.64 BELOW LSD, SEP. 26, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 18, 1973	36.73A	DEC. 5, 1973	20.63	MAY 3, 1974	18.27	SEP. 24, 1975	20.11
SEP. 26	22.64	MAR. 7, 1974	18.91	MAR. 31, 1975	18.21	APR. 5, 1976	20.06
OCT. 30	20.87	APR. 5	18.79				

A--PUMPING WATER LEVEL.

03N04W34ABB1. C. F. BETINER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 15 IN. LSD 191 FT ABOVE MSL. MP BASE OF PUMP, NORTH SIDE, AT LSD. ALTITUDE OF LAND SURFACE 191.00 FEET.

HIGHEST WATER LEVEL 17.07 BELOW LSD, MAR. 31, 1975,  
 LOWEST WATER LEVEL 26.32 BELOW LSD, JAN. 16, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 16, 1973	26.32	MAY 17, 1973	23.34	MAR. 7, 1974	20.34	MAR. 31, 1975	17.07
FEB. 7	25.99	SEP. 26	21.56	APR. 5	20.21	SEP. 24	19.62
MAR. 5	25.53	OCT. 30	21.26	MAY 3	18.29	APR. 5, 1976	19.02
APR. 2	24.93	DEC. 5	20.21				

TABLE 45.—MEASUREMENTS OF WATER LEVELS IN WELLS, PRAIRIE COUNTY, ARK.—CONTINUED

03N04W36BAD1. ROGER FARRIS. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. LSD 188 FT ABOVE MSL. MP TOP OF DISCHARGE COUPLING, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 188.00 FEET.

HIGHEST WATER LEVEL 16.99 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 23.98 BELOW LSD, OCT. 30, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 17, 1973	22.47	MAY 17, 1973	16.99	MAR. 7, 1974	19.07	MAR. 31, 1975	18.74
FEB. 7	21.24	SEP. 28	21.19	APR. 5	19.27	SEP. 24	22.32
MAR. 5	20.36	OCT. 30	23.98	MAY 3	18.66	APR. 2, 1976	21.37
APR. 2	19.41	DEC. 5	23.27				

04N04W04BBB1. HERBERT PITTS. DRILLED IRRIGATION WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 18 IN. LSD 184 FT ABOVE MSL. MP TOP OF CASING, WEST SIDE, 1.10 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 184.00 FEET.

HIGHEST WATER LEVEL 2.42 BELOW LSD, APR. 10, 1975,  
 LOWEST WATER LEVEL 7.84 BELOW LSD, SEP. 17, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 24, 1973	6.45	MAR. 7, 1974	3.09	JUNE 27, 1974	12.71A	SEP. 17, 1975	7.84
OCT. 29	6.88	APR. 5	3.18	APR. 10, 1975	2.42	APR. 17, 1976	6.46
DEC. 5	5.71	MAY 2	2.89				

A--PUMPING WATER LEVEL.

04N04W07ADB1. RAYMOND CARLOCK, JR. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 41.1 FT. LSD 195 FT ABOVE MSL. MP TOP OF PIPE, 2.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 195.00 FEET.

HIGHEST WATER LEVEL 12.02 BELOW LSD, APR. 5, 1974,  
 LOWEST WATER LEVEL 21.75 BELOW LSD, JAN. 15, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1973	21.75	APR. 2, 1973	18.14	OCT. 30, 1973	18.27	MAR. 7, 1974	15.52
FEB. 7	20.91	MAY 17	12.59	DEC. 5	18.35	APR. 5	12.02
MAR. 5	19.68	SEP. 26	17.42				

04N04W07ADC1. GARDENER ESTATE. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 195 FT ABOVE MSL. MP TOP OF CASING, AT LSD. ALTITUDE OF LAND SURFACE 195.00 FEET.

HIGHEST WATER LEVEL 15.64 BELOW LSD, MAY 3, 1974,  
 LOWEST WATER LEVEL 21.29 BELOW LSD, APR. 5, 1976.  
 RECORDS AVAILABLE 1973-76.  
 JULY 24, 1973 54.55A, APR. 5, 1974 16.03, MAY 3, 1974 15.64, MAR. 31, 1975 16.56,  
 SEP. 24, 1975 20.05, APR. 5, 1976 21.29.

A--PUMPING WATER LEVEL.

TABLE 45.—MEASUREMENTS OF WATER LEVELS IN WELLS, PRAIRIE COUNTY, ARK.—CONTINUED

04N04W34DDC1. PLUNKETT FARMS. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE,  
DIAM 18 IN, DEPTH 100 FT. LSD 187 FT ABOVE MSL. MP TOP OF GRAVEL-FEED PIPE, 1.10 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 187.00 FEET.

HIGHEST WATER LEVEL 19.38 BELOW LSD, APR. 2, 1973,  
LOWEST WATER LEVEL 23.04 BELOW LSD, SEP. 26, 1973.  
RECORDS AVAILABLE 1973, 19 .

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 15, 1973	21.29	MAR. 5, 1973	19.99	MAY 17, 1973	P	SEP. 26, 1973	23.04
FEB. 7	20.69	APR. 2	19.38	JULY 18	35.48A		

P--PUMPING.

TABLE 46.—CHEMICAL ANALYSES OF GROUND WATER, PRAIRIE COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICROMHOS)
350030091260501	117	04N04W048BB1	GW	111ALVM	73-07-18	17.0	860	--	360
345453091242501	117	04N04W34DDC1	GW	111ALVM	74-06-27	17.0	860	2	336
345453091242501	117	04N04W34DDC1	GW	111ALVM	74-07-18	17.0	1480	2	624

STATION NUMBER	DATE OF SAMPLE	PH	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)
350030091260501	73-07-18	--	--	--	--	--	--	--	--	--	--
345453091242501	74-06-27	7.4	11	148	180	0	.00	--	150	3	45
345453091242501	74-07-18	7.1	42	273	333	0	.01	.47	280	3	81

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED MAGNESIUM (MG)	SODIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	PERCENT SODIUM	DIS-SOLVED PO-TASIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)
350030091260501	73-07-18	--	--	--	--	--	--	--	--	--	--
345453091242501	74-06-27	9.2	7.4	1.6	10	1.6	14	9.5	.2	42	4200
345453091242501	74-07-18	18	20	1.9	14	1.9	32	11	.2	39	6800

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED MANGANESE (MN) (UG/L)	DATE OF SAMPLE	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
350030091260501	73-07-18	--	73-07-18	--	--
345453091242501	74-06-27	930	74-06-27	223	.28
345453091242501	74-07-18	1500	74-07-18	376	.50

TABLE 47.—RECORDS OF TEST HOLES AND WELLS IN RANDOLPH COUNTY, ARK.

Type of site: T, test hole; W, well.  
 Principal aquifer: 111ALVM, alluvium of Quaternary age; 112TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Remarks: G, lithologic log included in report, see table 49; L, water-level measurements included in report, see table 48; Q, chemical analyses of water included in report, see table 50.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
18N01E01BBB1	361417090560401	-----	W	112TRRC	267	22	U	----	----	----	----	----	L
18N01E10CCD1	361232090580401	Charles McDonald	W	112TRRC	264	29	U	----	----	----	----	----	L
18N01E15BA1	361230090575101	-----	W	112TRRC	264	29	U	----	----	----	----	----	L
18N01E27ACB1	361032090574501	Floyd Forester	W	112TRRC	260	89	I	15.5	421	6-27-74	1,450	6-27-74	Q
18N01E34AAC1	360942090572901	C. T. Jackson	W	112TRRC	266	---	I	----	----	----	----	----	L
18N02E29BBC1	361034090535901	Pruett	W	112TRRC	276	95	U	----	----	----	----	----	L
18N02E32CCA1	360913090534501	-----	W	112TRRC	270	---	I	15.5	375	7-27-73	923	7-27-73	L
19N02E04ABB1	361928090520401	Carl Throesch	W	111ALVM	267	55	I	15.0	393	7-11-74	500	7-11-74	Q
19N02E09DCA1	361759090515801	Sellee Brothers	W	111ALVM	267	---	I	----	----	----	----	----	L
20N02E13DAA1	362232090481401	-----	W	111ALVM	276	---	I	----	----	----	----	----	L
20N02E24ADD1	362141090481801	-----	W	111ALVM	274	---	I	15.5	460	7-26-73	1,724	7-26-73	L
20N02E25BDC1	362047090490201	-----	W	111ALVM	275	22	U	----	----	----	----	----	L
20N02E34CBC1	361948090513301	-----	W	111ALVM	270	---	I	----	----	----	----	----	L
20N03E28ACC1	362048090453101	-----	W	112TRRC	285	23	U	----	----	----	----	----	L
20N03E28BBD1	362103090455301	-----	T	112TRRC	281	101	U	----	----	----	----	----	G

TABLE 48.—MEASUREMENTS OF WATER LEVELS IN WELLS, RANDOLPH COUNTY, ARK.

18N01E01BBB1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 22.0 FT. LSD 267 FT ABOVE MSL. MP TOP OF PIPE, 0.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 267.00 FEET.

HIGHEST WATER LEVEL 1.68 BELOW LSD, APR. 27, 1973,  
 LOWEST WATER LEVEL 10.49 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 27, 1973	1.68	DEC. 5, 1973	8.42	MAY 2, 1974	4.59	OCT. 2, 1975	9.07
SEP. 28	9.54	MAR. 6, 1974	4.13	MAR. 27, 1975	3.74	MAR. 18, 1976	7.22
NOV. 2	10.49	APR. 4	4.50				

18N01E10CCD1. CHARLES MCDONALD. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 28.7 FT. LSD 264 FT ABOVE MSL. MP TOP OF PIPE, 2.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 264.00 FEET.

HIGHEST WATER LEVEL 3.73 BELOW LSD, MAR. 27, 1975,  
 LOWEST WATER LEVEL 9.79 BELOW LSD, OCT. 2, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 28, 1973	8.28	MAR. 6, 1974	3.94	MAY 2, 1974	5.07	OCT. 2, 1975	9.79
NOV. 2	9.00	APR. 4	4.02	MAR. 27, 1975	3.73	MAR. 18, 1976	7.93
DEC. 5	8.05						

18N01E15BAA1. DRIVEN UNUSED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 29.0 FT. LSD 264 FT ABOVE MSL. MP TOP OF PIPE, 0.80 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 264.00 FEET.

HIGHEST WATER LEVEL 2.00 BELOW LSD, APR. 27, 1973,  
 LOWEST WATER LEVEL 2.00 BELOW LSD, APR. 27, 1973.  
 RECORDS AVAILABLE 1973, 19  
 APR. 27, 1973 2.00.

18N01E34AAC1. C. T. JACKSON. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 266 FT ABOVE MSL. MP TOP OF PIT CASING, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 266.00 FEET.

HIGHEST WATER LEVEL 5.70 BELOW LSD, APR. 30, 1973,  
 LOWEST WATER LEVEL 13.38 BELOW LSD, OCT. 2, 1975.  
 RECORDS AVAILABLE 1957, 1967-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 16, 1957	9.42	MAR. 29, 1971	9.15	APR. 30, 1973	5.70	MAY 2, 1974	8.45
APR. 12, 1967	10.38	APR. 7, 1972	9.79	SEP. 28	10.58	MAR. 27, 1975	7.48
APR. 9, 1968	9.13	OCT. 27	10.18	NOV. 2	10.64	OCT. 2	13.38
MAR. 21, 1969	9.25	MAR. 22, 1973	7.07	MAR. 6, 1974	8.27	MAR. 18, 1976	11.34
APR. 3, 1970	9.51	APR. 4	7.24	APR. 4	8.68		

18N02E29BBC1. PRUETT. DRILLED DOMESTIC WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 2 IN, DEPTH 95 FT. LSD 276 FT ABOVE MSL. MP TIP OF ELBOW, 1.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 276.00 FEET.

HIGHEST WATER LEVEL 13.68 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 13.68 BELOW LSD, MAY 17, 1973.  
 RECORDS AVAILABLE 1973, 19  
 MAY 17, 1973 13.68.

TABLE 48.—MEASUREMENTS OF WATER LEVELS IN WELLS, RANDOLPH COUNTY, ARK.—CONTINUED

18N02E32CCA1. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 95 FT. LSD 270 FT ABOVE MSL. MP TOP OF HOLE IN BASE OF PUMP ON WEST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 270.00 FEET.

HIGHEST WATER LEVEL 13.84 BELOW LSD, MAR. 7, 1974,  
 LOWEST WATER LEVEL 15.10 BELOW LSD, OCT. 2, 1973.  
 RECORDS AVAILABLE 1973-74.

JULY 27, 1973 29.70A, OCT. 2, 1973 15.10, NOV. 7, 1973 14.71, MAR. 7, 1974 13.84.

A--PUMPING WATER LEVEL.

19N02E09DCA1. SELLEE BROTHERS. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 267 FT ABOVE MSL. MP TOP EDGE OF DISCHARGE PIPE, 6.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 267.00 FEET.

HIGHEST WATER LEVEL 0.13 ABOVE LSD, DEC. 5, 1973,  
 LOWEST WATER LEVEL 13.25 BELOW LSD, APR. 7, 1972.  
 RECORDS AVAILABLE 1957, 1968-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 16, 1957	1.85	APR. 7, 1972	13.25	SEP. 28, 1973	12.50	MAY 2, 1974	4.22
APR. 9, 1968	2.82	OCT. 27	12.42	NOV. 2	10.20	MAR. 27, 1975	1.66
MAR. 21, 1969	9.85	MAR. 22, 1973	0.49	DEC. 5	0.13	OCT. 2	11.66
APR. 3, 1970	8.56	APR. 4	1.02	MAR. 6, 1974	5.28	MAR. 18, 1976	10.49
MAR. 29, 1971	11.40	MAY 17	1.58	APR. 4	5.71		

20N02E13DAA1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 276 FT ABOVE MSL. MP TOP OF PIT CASING EAST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 276.00 FEET.

HIGHEST WATER LEVEL 0.71 BELOW LSD, MAY 17, 1973,  
 LOWEST WATER LEVEL 12.43 BELOW LSD, SEP. 28, 1973.  
 RECORDS AVAILABLE 1966, 1970-73-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 11, 1966	8.06	MAY 17, 1973	0.71	MAR. 6, 1974	3.58	MAR. 27, 1975	1.75
APR. 3, 1970	7.92	SEP. 28	12.43	APR. 4	3.58	OCT. 2	7.88
MAR. 22, 1973	1.24	NOV. 2	10.38	MAY 2	2.54	MAR. 18, 1976	6.38
APR. 4	1.25						

20N02E24ADD1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 274 FT ABOVE MSL. MP TOP OF CASING SOUTH SIDE, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 274.00 FEET.

HIGHEST WATER LEVEL 13.28 BELOW LSD, SEP. 28, 1973, SEP. 28, 1973,  
 LOWEST WATER LEVEL 13.28 BELOW LSD, SEP. 28, 1973, SEP. 28, 1973.  
 RECORDS AVAILABLE 1973, 19 .  
 JULY 26, 1973 43.65A, SEP. 28, 1973 13.28.

A--PUMPING WATER LEVEL.

20N02E25BDC1. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 22 FT. LSD 275 FT ABOVE MSL. MP TOP OF PUMP MATERIAL, 2.80 FT ABOVE LSD. WELL DESTROYED. ALTITUDE OF LAND SURFACE 275.00 FEET.

HIGHEST WATER LEVEL 3.43 BELOW LSD, MAR. 22, 1973,  
 LOWEST WATER LEVEL 15.80 BELOW LSD, SEP. 28, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 22, 1973	3.43	MAY 17, 1973	5.83	NOV. 2, 1973	11.53	APR. 4, 1974	10.32
APR. 4	4.39	SEP. 28	15.80	MAR. 6, 1974	10.29	MAY 2	8.63



TABLE 48.—MEASUREMENTS OF WATER LEVELS IN WELLS, RANDOLPH COUNTY, ARK.—CONTINUED

20N02E34CBC1. DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN. LSD 270 FT ABOVE MSL. MP TOP EDGE OF DISCHARGE PIPE, 3.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 270.00 FEET.

HIGHEST WATER LEVEL 1.68 BELOW LSD, MAR. 22, 1973,  
 LOWEST WATER LEVEL 12.10 BELOW LSD, SEP. 28, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 22, 1973	1.68	SEP. 28, 1973	12.10	APR. 4, 1974	5.51	OCT. 2, 1975	10.32
APR. 4	1.98	NOV. 2	11.22	MAY 2	3.83	MAR. 18, 1976	8.18
MAY 17	2.10	MAR. 6, 1974	5.02	MAR. 27, 1975	2.54		

20N03E28ACC1. DRIVEN UNUSED DOMESTIC WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 23 FT. LSD 285 FT ABOVE MSL. MP TOP OF PITCHER, 1.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 285.00 FEET.

HIGHEST WATER LEVEL 9.75 BELOW LSD, APR. 27, 1973,  
 LOWEST WATER LEVEL 14.69 BELOW LSD, NOV. 2, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 27, 1973	9.75	DEC. 5, 1973	14.35	MAY 2, 1974	12.18	OCT. 2, 1975	14.28
SEP. 28	13.87	MAR. 6, 1974	12.28	MAR. 27, 1975	12.73	MAR. 18, 1976	14.37
NOV. 2	14.69	APR. 4	12.11				

TABLE 49.-LOG OF TEST HOLES AND WELLS

RANDOLPH COUNTY, ARKANSAS

362103090455301. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 31, 1975  
LAND SURFACE ALTITUDE 281 FT.

LOCATION: 20N03E28BBD1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	3.0	3.0
QUATERNARY DEPOSITS:		
SAND, FINE, SILTY, YELLOWISH TO BROWNISH-GRAY -----	7.0	10.0
SILT, CLAYEY, GREENISH-GRAY; CONTAINS FINE FERRIC OXIDE CONCRETIONS AND PYRITIC SPECKS -----	2.0	12.0
SAND, FINE, SILTY -----	6.0	18.0
SAND, FINE TO MEDIUM-----	10.0	28.0
SAND, MEDIUM TO COARSE; CONTAINS SOME LIGNITIC FRAGMENTS -----	20.0	48.0
SAND, COARSE TO VERY COARSE, SOME FINE GRAVEL -----	20.0	68.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	27.0	95.0
GRAVEL, SANDY -----	5.0	100.0
CRETACEOUS(?) DEPOSITS:		
NO SAMPLE; DRILLING CHARACTERISTIC OF CONSOLIDATED SEDIMENTS -----	1.0	101.0

TABLE 50.—CHEMICAL ANALYSES OF GROUND WATER, RANDOLPH COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
361032090574501	121	18N01E27ACB1	GW	112FRRC	74-06-27	89	15.5	1450	2
361928090520401	121	19N02E04ABB1	GW	111ALVM	74-07-11	55	15.0	500	2
STATION NUMBER	DATE OF SAMPLE	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CAC03 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
361032090574501	74-06-27	21	217	264	0	--	--	.01	.34
361928090520401	74-07-11	29	187	228	0	.01	.18	.19	--
STATION NUMBER	DATE OF SAMPLE	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED PHOSPHORUS CHLORIDE (CL) (MG/L)	DIS-SOLVED NITRATE (NO2) (MG/L)
361032090574501	74-06-27	210	0	64	11	.3	8	1.4	3.1
361928090520401	74-07-11	190	4	45	19	.3	8	1.1	12
STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED FLUORIDE (SO4) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)
361032090574501	74-06-27	6.0	37	2400	1400	265	.33	--	--
361928090520401	74-07-11	3.6	24	3400	140	230	.29	.80	.03

TABLE 51.—RECORDS OF WELLS IN ST. FRANCIS COUNTY, ARK.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
04N01E13DA41	345708090563801	Otis Howton	W	112TRRC	208	145	I	17.0	790	7-10-73	1,720	7-10-73	L
04N01W08ADD1	345845091065801	Ernest Loewer	W	112TRRC	210	145	I	17.0	820	7-11-73	1,425	7-11-73	L
04N01W12BDD1	345846091031801	Ernest Loewer	W	112TRRC	208	135	I	17.0	850	7-11-73	1,250	7-11-73	L
04N01W13AAB1	345815091025701	Raymond Faley	W	112TRRC	210	135	I	17.0	910	7-10-73	816	7-10-73	L
04N01W25AAD1	345616091024601	R.R.R. Farms, Inc.	W	112TRRC	209	145	I	17.5	990	7-9-73	1,160	7-9-73	L
04N01W28BAD1	345618091063001	Arkansas Hwy. Dept.	W	112TRRC	206	145	I	17.0	960	7-9-73	1,062	7-9-73	L
04N01W34CDA1	345253091052801	R.R.R. Farms, Inc.	W	112TRRC	207	145	I	17.0	694	7-18-74	915	7-18-74	L
04N01W35CAA1	345506091051601	Thomas Dodson	W	112TRRC	209	145	U	17.0	---	---	---	---	L
04N01W35CBA1	345508091042101	Banks Farm	W	112TRRC	208	145	I	17.0	---	---	---	---	L
04N02E10CBC1	345900090510501	Lucas Lewis	W	112TRRC	216	120	I	16.5	---	---	---	---	L
04N02E16BBC1	345741090542201	---	W	112TRRC	211	135	I	16.5	---	---	---	---	L
04N03E21DAD1	345623090465601	---	W	112TRRC	236	---	I	---	---	---	---	---	L
05N02E10BBD1	350351090530401	---	W	112TRRC	216	---	I	---	---	---	---	---	L
05N03E08CBA1	350331090484601	---	W	112TRRC	246	---	I	---	---	---	---	---	L
06N01E33AAC1	350557090593901	---	W	112TRRC	210	---	I	16.2	902	6-24-74	620	6-24-74	L
06N01E33ACA1	350558090594201	E. Ellis	W	112TRRC	211	140	I	16.5	1,000	7-19-73	973	7-19-73	Q
06N02E16DBB1	350826090532901	---	W	112TRRC	217	---	I	---	---	---	---	---	L

Type of site: W, well.  
 Principal aquifer: 112TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Remarks: L, water-level measurements included in report, see table 52; Q, chemical analyses of water included in report, see table 53.

TABLE 52.—MEASUREMENTS OF WATER LEVELS IN WELLS, ST. FRANCIS COUNTY, ARK.

04N01E13DDA1. OTIS HOWTON. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 208 FT ABOVE MSL. MP HOLE IN PUMP BASE SOUTH SIDE, 1.40 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 208.00 FEET.

HIGHEST WATER LEVEL 40.57 BELOW LSD, APR. 3, 1973,  
LOWEST WATER LEVEL 42.30 BELOW LSD, SEP. 18, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1973	41.12	MAY 11, 1973	40.60	MAR. 6, 1974	40.98	APR. 1, 1975	40.76
FEB. 8	40.97	SEP. 26	41.74	APR. 4	40.94	SEP. 18	42.30
MAR. 6	40.69	OCT. 31	41.66	MAY 1	40.79	MAR. 29, 1976	41.14
APR. 3	40.57	DEC. 7	41.60				

04N01W08ADD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 145 FT. 6>: 210 FT ABOVE MSL. MP BASE OF PUMP EAST SIDE, 0.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 210.00 FEET.

HIGHEST WATER LEVEL 49.11 BELOW LSD, MAY 2, 1974,  
LOWEST WATER LEVEL 51.92 BELOW LSD, SEP. 19, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 10, 1973	76.45A	DEC. 7, 1973	50.55	MAY 2, 1974	49.11	SEP. 19, 1975	51.92
SEP. 26	51.32	MAR. 6, 1974	49.59	MAR. 31, 1975	49.72	APR. 2, 1976	50.21
OCT. 29	50.54	APR. 3	49.27				

A--PUMPING WATER LEVEL.

04N01W12BDD1. ERNEST LOEWER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 135 FT. LSD 208 FT ABOVE MSL. MP TOP OF CASING, 0.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 208.00 FEET.

HIGHEST WATER LEVEL 50.91 BELOW LSD, SEP. 26, 1973,  
LOWEST WATER LEVEL 50.91 BELOW LSD, SEP. 26, 1973.  
RECORDS AVAILABLE 1973, 19  
JULY 11, 1973 65.30A, SEP. 26, 1973 50.91.

A--PUMPING WATER LEVEL.

04N01W13AAB1. ERNEST LOEWER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 15 IN, DEPTH 135 FT. LSD 210 FT ABOVE MSL. MP HOLE IN CASING, 0.80 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 210.00 FEET.

HIGHEST WATER LEVEL 48.96 BELOW LSD, MAY 11, 1973,  
LOWEST WATER LEVEL 51.93 BELOW LSD, SEP. 19, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1973	49.67	MAY 11, 1973	48.96	DEC. 7, 1973	50.50	APR. 1, 1975	49.64
FEB. 9	49.62	JULY 11	81.10A	MAR. 6, 1974	49.52	SEP. 19	51.93
MAR. 6	49.26	SEP. 24	50.82	APR. 3	49.38	APR. 2, 1976	50.33
APR. 2	49.04	OCT. 29	50.37	MAY 2	49.24		

A--PUMPING WATER LEVEL.

TABLE 52.—MEASUREMENTS OF WATER LEVELS IN WELLS, ST. FRANCIS COUNTY, ARK.—CONTINUED

04N01W25AAD1. RAYMOND EALEY. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN. LSD 209 FT ABOVE MSL. MP HOLE IN PUMP BASE, REMOVE PLUG, 0.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 209.00 FEET.

HIGHEST WATER LEVEL 49.69 BELOW LSD, MAY 11, 1973,  
 LOWEST WATER LEVEL 51.86 BELOW LSD, SEP. 19, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 23, 1973	50.35	MAY 11, 1973	49.69	MAR. 6, 1974	50.57	APR. 1, 1975	50.55
FEB. 9	50.36	SEP. 24	51.67	APR. 3	50.30	SEP. 19	51.86
MAR. 6	49.94	OCT. 29	51.34	MAY 2	50.14	APR. 2, 1976	51.12
APR. 2	49.90	DEC. 7	51.41				

04N01W28BAD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 145 FT. LSD 206 FT ABOVE MSL. MP SLOT IN CASING NORTH SIDE, 0.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 206.00 FEET.

HIGHEST WATER LEVEL 45.16 BELOW LSD, MAY 2, 1974,  
 LOWEST WATER LEVEL 49.00 BELOW LSD, SEP. 19, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 10, 1973	47.83	DEC. 7, 1973	45.97	MAY 2, 1974	45.16	SEP. 19, 1975	49.00
SEP. 26	45.88	MAR. 6, 1974	45.78	MAR. 31, 1975	45.30	APR. 2, 1976	46.33
OCT. 29	45.81	APR. 3	45.57				

04N01W34CDA1. R. R. FARMS INC. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 145 FT. LSD 207 FT ABOVE MSL. MP BOTTOM OF LARGE OPENING ON WEST SIDE OF PUMP, 1.30 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 207.00 FEET.

HIGHEST WATER LEVEL 53.01 BELOW LSD, SEP. 24, 1973,  
 LOWEST WATER LEVEL 53.01 BELOW LSD, SEP. 24, 1973.  
 RECORDS AVAILABLE 1973, 1974.  
 JULY 9, 1973 86.32A, SEP. 24, 1973 53.01.

A--PUMPING WATER LEVEL.

04N01W34DBA1. ARKANSAS HIGHWAY DEPARTMENT. DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 24 IN, DEPTH 145 FT. LSD 209 FT ABOVE MSL. MP HOLE IN METAL PLATE WELDED ON CASING, AT LSD. ALTITUDE OF LAND SURFACE 209.00 FEET.

HIGHEST WATER LEVEL 47.79 BELOW LSD, MAR. 10, 1959,  
 LOWEST WATER LEVEL 53.06 BELOW LSD, SEP. 19, 1975.  
 RECORDS AVAILABLE 1957-61, 1963, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 17, 1957	49.13	OCT. 16, 1958	50.83	OCT. 13, 1960	50.92	APR. 2, 1968	48.87
FEB. 14	48.52	NOV. 18	48.20	NOV. 16	49.74	MAR. 17, 1969	50.49
MAR. 12	48.52	DEC. 17	49.02	DEC. 13	49.77	MAR. 16, 1970	51.08
APR. 15	48.74	JAN. 22, 1959	48.22	JAN. 16, 1961	49.07	MAR. 15, 1971	51.12
MAY 15	48.48	FEB. 12	48.19	FEB. 24	49.90	MAR. 23, 1972	50.36
JUNE 12	48.26	MAR. 10	47.79	MAR. 29	48.37	FEB. 9, 1973	51.12
JULY 12	49.36	APR. 15	49.08	APR. 27	49.95	MAR. 6	50.52
AUG. 28	50.57	MAY 18	48.10	MAY 24	49.03	APR. 2	50.48
SEP. 18	50.37	JUNE 16	48.43	JUNE 29	49.40	MAY 11	50.43
OCT. 16	50.01	SEP. 24	50.10	JULY 25	49.58	SEP. 24	52.67
NOV. 21	49.73	OCT. 21	49.83	AUG. 29	51.37	OCT. 29	52.16
DEC. 11	49.49	NOV. 18	49.38	SEP. 27	51.06	DEC. 7	51.99
JAN. 30, 1958	48.69	DEC. 24	49.13	OCT. 31	51.20	MAR. 6, 1974	51.13
FEB. 11	48.99	JAN. 27, 1960	48.73	DEC. 12	48.81	APR. 3	50.77
MAR. 12	48.95	FEB. 18	48.70	APR. 17, 1963	49.38	MAY 2	50.63
APR. 15	48.44	MAR. 17	48.10	APR. 16, 1965	49.66	MAR. 31, 1975	50.97
MAY 14	48.48	APR. 4	48.40	MAR. 15, 1966	50.03	SEP. 19	53.06
AUG. 7	49.02	AUG. 23	49.90	APR. 10, 1967	51.85	MAR. 30, 1976	51.56
SEP. 15	50.67	SEP. 19	51.27				

TABLE 52.—MEASUREMENTS OF WATER LEVELS IN WELLS, ST. FRANCIS COUNTY, ARK.—CONTINUED

04N01W35CAA1. R. R. R. FARMS INC. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 145 FT. LSD 208 FT ABOVE MSL. MP HOLE IN BASE OF PUMP NORTH SIDE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 208.00 FEET.

HIGHEST WATER LEVEL 54.08 BELOW LSD, OCT. 2, 1973,  
LOWEST WATER LEVEL 54.08 BELOW LSD, OCT. 2, 1973.  
RECORDS AVAILABLE 1973, 19  
JULY 9, 1973 64.17A, OCT. 2, 1973 54.08.

A--PUMPING WATER LEVEL.

04N02E01CQC1. THOMAS DODSON. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 120 FT. LSD 216 FT ABOVE MSL. MP TOP OF CASING, 1.20 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 216.00 FEET.

HIGHEST WATER LEVEL 29.45 BELOW LSD, APR. 1, 1975,  
LOWEST WATER LEVEL 32.14 BELOW LSD, FEB. 9, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 26, 1973	32.10	MAY 11, 1973	30.49	MAR. 6, 1974	30.54	APR. 1, 1975	29.45
FEB. 9	32.14	SEP. 26	29.82	APR. 5	30.67	SEP. 18	30.14
MAR. 7	31.98	OCT. 31	31.24	MAY 1	30.47	MAR. 29, 1976	30.82
APR. 3	31.39	DEC. 7	31.47				

04N02E16BBC1. BANKS FARM. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 135 FT. LSD 211 FT ABOVE MSL. MP BASE OF PUMP, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 211.00 FEET.

HIGHEST WATER LEVEL 32.34 BELOW LSD, MAY 1, 1974,  
LOWEST WATER LEVEL 33.78 BELOW LSD, SEP. 18, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 25, 1973	33.17	MAY 11, 1973	32.42	MAR. 6, 1974	32.64	APR. 1, 1975	32.36
FEB. 8	33.43	SEP. 26	33.64	APR. 4	32.52	SEP. 18	33.78
MAR. 6	33.17	OCT. 31	33.42	MAY 1	32.34	MAR. 29, 1976	32.66
APR. 3	32.94	DEC. 7	33.23				

04N03E21DAD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 10 IN. LSD 236 FT ABOVE MSL. MP TOP OF HOLE IN PUMP BASE NORTH SIDE, 2.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 236.00 FEET.

HIGHEST WATER LEVEL 32.78 BELOW LSD, JULY 26, 1961,  
LOWEST WATER LEVEL 49.32 BELOW LSD, MAR. 23, 1970.  
RECORDS AVAILABLE 1955.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 30, 1955	48.64	MAR. 7, 1962	36.17	MAR. 22, 1972	48.60	MAR. 6, 1974	40.83
JULY 26, 1961	32.78	APR. 20	34.08	MAR. 9, 1973	42.62	APR. 2	41.12
AUG. 29	P	JUNE 7	39.49	APR. 5	40.09	MAY 1	41.17
SEP. 26	44.76	AUG. 15	43.43	MAY 22	36.34	APR. 1, 1975	37.81
OCT. 31	45.98	MAR. 23, 1970	49.32	SEP. 26	45.94	SEP. 18	44.78
DEC. 15	45.25	MAR. 17, 1971	44.79	NOV. 5	46.96	APR. 2, 1976	45.24

P--PUMPING.

TABLE 52.—MEASUREMENTS OF WATER LEVELS IN WELLS, ST. FRANCIS COUNTY, ARK.—CONTINUED

05N02E108BD1. LUCAS LEWIS. DRILLED IRRIGATION WATER TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 216 FT ABOVE MSL. MP HOLE IN PUMP, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 216.00 FEET.

HIGHEST WATER LEVEL 38.32 BELOW LSD, APR. 11, 1975,  
 LOWEST WATER LEVEL 39.85 BELOW LSD, OCT. 30, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 3, 1973	38.55	DEC. 7, 1973	38.86	APR. 1, 1974	38.82	SEP. 24, 1975	39.18
OCT. 3	38.78	MAR. 4, 1974	38.41	APR. 11, 1975	38.32	MAR. 24, 1976	39.15
OCT. 30	39.85						

05N03E08CB1. DRILLED IRRIGATION WATER TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 246 FT ABOVE MSL. MP END OF DISCHARGE PIPE, 4.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 246.00 FEET.

HIGHEST WATER LEVEL 59.20 BELOW LSD, APR. 1, 1975,  
 LOWEST WATER LEVEL 60.67 BELOW LSD, SEP. 25, 1973.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 1, 1973	59.76	MAY 2, 1973	59.50	OCT. 30, 1973	60.36	APR. 2, 1974	59.66
MAR. 29	59.78	SEP. 25	60.67	MAR. 4, 1974	59.45	APR. 1, 1975	59.20

06N01E33AC1. E. ELLIS. DRILLED IRRIGATION WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 140 FT. LSD 211 FT ABOVE MSL. MP BASE OF PUMP, 1.60 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 211.00 FEET.

HIGHEST WATER LEVEL 31.42 BELOW LSD, APR. 27, 1961,  
 LOWEST WATER LEVEL 40.23 BELOW LSD, SEP. 24, 1975.  
 RECORDS AVAILABLE 1961-62, 1965-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 8, 1961	31.66	MAR. 9, 1962	33.09	MAR. 19, 1971	36.00	OCT. 30, 1973	37.93
FEB. 24	33.85	APR. 17	32.05	MAR. 24, 1972	37.10	MAR. 4, 1974	37.42
APR. 18	31.48	APR. 13, 1965	34.29	OCT. 11	36.89	APR. 1	37.40
APR. 27	31.42	MAR. 16, 1966	31.50	MAR. 29, 1973	37.18	APR. 29	37.54
JULY 25	32.30	APR. 11, 1967	33.98	MAY 2	37.19	APR. 1, 1975	38.41
NOV. 2	31.90	APR. 5, 1968	34.36	JULY 19	64.55A	SEP. 24	40.23
DEC. 14	34.03	MAR. 20, 1969	34.12	OCT. 3	38.15	MAR. 24, 1976	39.42
JAN. 25, 1962	33.28	MAR. 20, 1970	35.52				

A--PUMPING WATER LEVEL.

06N02E16DB1. DRILLED IRRIGATION WATER TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN. LSD 217 FT ABOVE MSL. MP BOTTOM OF DISCHARGE OPENING, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 217.00 FEET.

HIGHEST WATER LEVEL 32.79 BELOW LSD, APR. 27, 1961,  
 LOWEST WATER LEVEL 40.84 BELOW LSD, MAR. 24, 1976.  
 RECORDS AVAILABLE 1961, 1963, 1965-66, 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 17, 1961	35.05	APR. 16, 1963	33.58	MAY 3, 1973	40.00	APR. 2, 1974	39.32
MAR. 29	32.90	APR. 13, 1965	35.09	SEP. 25	39.62	APR. 29	39.02
APR. 18	32.99	MAR. 16, 1966	35.91	OCT. 30	40.65	APR. 1, 1975	39.47
APR. 27	32.79	OCT. 13, 1972	39.17	DEC. 7	39.64	MAR. 24, 1976	40.84
MAY 24	32.80	MAR. 29, 1973	38.93	MAR. 4, 1974	39.14		



TABLE 53.--CHEMICAL ANALYSES OF GROUND WATER, ST. FRANCIS COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)
345508091042101	123	04N01W35CAA1	GW	112TRRC	73-07-09	17.0	1060	--	960
	123		GW	112TRRC	74-07-18	17.0	1060	2	865
345741090542201	123	04N02E16BBC1	GW	112TRRC	74-07-18	16.5	915	2	694
345815091025701	123	04N01W13AAB1	GW	112TRRC	73-07-11	17.0	1250	--	850
	123		GW	112TRRC	74-07-18	17.0	1250	5	934
350557090593901	123	06N01E33AAC1	GW	112TRRC	74-06-24	16.2	620	2	902

STATION NUMBER	DATE OF SAMPLE	PH (UNITS)	CARBON DIOXIDE (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (MG/L)	CARBONATE (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA+MG) (MG/L)
345508091042101	73-07-09	--	--	--	--	--	--	--	--	--	--
	74-07-18	7.1	64	415	506	0	0.00	0.14	0.14	0.12	430
345741090542201	74-07-18	7.1	52	336	409	0	0.00	0.06	0.06	0.00	330
345815091025701	73-07-11	--	--	--	--	--	--	--	--	--	--
	74-07-18	7.2	55	446	544	0	0.11	0.00	0.09	0.10	450
350557090593901	74-06-24	7.5	26	422	515	0	--	--	0.08	0.13	440

TABLE 53.—CHEMICAL ANALYSES OF GROUND WATER, ST. FRANCIS COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
345508091042101	73-07-09	--	--	--	--	--	--	--	--	--	--
	74-07-18	16	120	32	26	.5	12	1.8	27	31	.2
345741090542201	74-07-18	0	78	32	22	.5	13	1.3	27	4.9	.2
345815091025701	73-07-11	--	--	--	--	--	--	--	--	--	--
	74-07-18	2	120	36	30	.6	13	1.9	31	33	.2
350557090593901	74-06-24	17	120	34	29	.6	13	1.7	39	14	.2

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)
345508091042101	73-07-09	--	--	--	--	--	--	--	--
	74-07-18	36	2000	390	503	526	.68	.62	.00
345741090542201	74-07-18	35	670	410	384	403	.52	.27	.00
345815091025701	73-07-11	--	--	--	--	--	--	--	--
	74-07-18	38	2000	340	539	561	.73	.00	.36
350557090593901	74-06-24	36	2300	330	509	531	.69	--	--

TABLE 54.—RECORDS OF TEST HOLES AND WELLS IN WOODRUFF COUNTY, ARK.

Type of site: T, test hole; W, well.  
 Principal aquifer: I11ALVM, alluvium of Quaternary age; I12TRRC, terrace deposits of Quaternary age.  
 Use of water: I, irrigation; U, unused.

Local number	Station number	Owner	Type of site	Principal aquifer	Altitude of land surface (feet)	Depth of well (feet)	Use of water	Temperature (degrees C)	Specific conductance (micromhos)	Date quality parameters measured	Discharge (gallons per minute)	Date discharge measured	Remarks
05N01W05AAA1	350521091070501	Fred Schaefer	W	I12TRRC	201	130	I	17.0	440	7-19-73	1,110	7-19-73	L
05N01W16BCC1	350311091065601	Bob Anderson	W	I12TRRC	211	130	I	17.0	520	7-10-73	941	7-10-73	L
05N01W29AAA1	350151091070601	Perry	W	I12TRRC	211	130	I	17.0	580	7-10-73	500	7-10-73	L
05N02W12BBC1	350318091100201	Fred Schaefer	W	I12TRRC	204	105	I	17.5	370	7-23-73	1,885	7-23-73	Q, L
05N02W20DCB1	350209091135601		W	I12TRRC	192	---	I	---	---	---	---	---	L
05N04W12DBA1	350426091221101	W. P. Daniel	W	I11ALVM	186	92	I	---	---	---	---	---	L
06N01W06BBA1	351047091083201		W	I12TRRC	200	---	I	---	---	---	---	---	L
06N01W33ADB1	350601091055901	George Smith Estate	W	I12TRRC	216	---	I	---	---	---	---	---	L
06N02W10DAA1	350920091110901	McCan	W	I12TRRC	208	130	I	17.0	360	7-18-73	876	8-13-69	L
06N02W11AAA1	350946091100601		W	I12TRRC	200	---	I	16.5	420	8-14-74	837	7-18-73	L
06N02W18CDD1	350819091143401		W	I12TRRC	221	---	I	---	---	---	---	---	L
06N03W08CBB1	350935091203301		W	I12TRRC	203	---	I	---	---	---	---	---	Q
06N03W31LBCB1	350623091214401		W	I11ALVM	185	---	I	16.5	249	8-13-74	900	8-13-74	L
06N04W27AAA1	350732091240201	W. P. Daniel	W	I11ALVM	190	---	I	---	---	---	---	---	L
07N01W01BAB1	351553091030901		W	I12TRRC	220	140	I	16.6	490	7-19-73	1,320	7-19-73	L
07N01W08BBB1	351504091074201		T	I11ALVM	203	161	U	---	---	---	---	---	L
07N01W08BCC1	351453091073601	G. L. Morris Estate	W	I12TRRC	204	120	I	16.8	---	8-14-74	1,230	8-14-74	Q, L
07N01W12AAA1	351504091022801		T	I12TRRC	218	181	U	---	---	---	---	---	L
07N01W18CCC1	351325091084901	Good Hope Church	W	I12TRRC	203	18	U	---	---	---	---	---	L
07N01W22BCA1	351305091052701		W	I12TRRC	221	135	U	17.0	420	7-19-73	1,800	7-19-73	L
07N01W28DDD1	351136091054201		W	I12TRRC	218	---	U	---	---	---	---	---	L
07N02W06AAA1	351610091141001		T	I12TRRC	195	161	U	---	---	---	---	---	L
07N02W17CDD1	351545091135801	Billy H. Robertson	W	I12TRRC	196	---	I	---	---	---	---	---	L
07N03W08DCC1	351435091195201		W	I12TRRC	211	---	I	17.5	368	8-13-74	840	8-13-74	L
07N03W20BBB1	351337091201701	Moody Whitehead	W	I12TRRC	204	120	I	17.5	310	7-18-73	1,510	7-18-73	Q, L
07N03W30DAA1	351220091203301	Tom Stanley	W	I12TRRC	202	---	I	---	---	---	---	---	L
08N01W10AAA1	352018091043201		W	I12TRRC	208	110	I	---	---	---	---	---	L
08N01W20CC1	351751091071701		W	I12TRRC	207	---	I	---	---	---	---	---	L
08N02W22CBB1	351815091115501		W	I12TRRC	204	---	I	---	---	---	---	---	L
08N03W14AAC1	351933091161901		W	I12TRRC	210	---	I	---	---	---	---	---	L
08N03W51AAA1	351708091202801		T	I12TRRC	213	126	U	---	---	---	---	---	L
08N03W51AAD1	351657091203101	E. B. Commer	W	I12TRRC	212	110	U	---	---	---	---	---	L
08N03W52DBB1	351642091194501	A. Daniel	W	I12TRRC	216	110	I	17.0	460	7-18-73	915	7-18-73	Q, L
08N03W54BAA1	351706091174701		T	I12TRRC	220	151	U	---	---	---	---	---	G
08N03W56BBB1	351704091160601		T	I12TRRC	212	196	U	---	---	---	---	---	G
08N04W26CAC1	351722091232001		T	I11ALVM	200	70	U	---	---	---	---	---	G
09N03W27AAD1	352257091173001		W	I12TRRC	224	23	U	---	---	---	---	---	L

TABLE 55.—MEASUREMENTS OF WATER LEVELS IN WELLS, WOODRUFF COUNTY, ARK.

05N01W05AAA1. FRED SCHAEFER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 130 FT. LSD 201 FT ABOVE MSL. MP NIPPLE IN PUMP. ALTITUDE OF LAND SURFACE 201.00 FEET.

HIGHEST WATER LEVEL 27.81 BELOW LSD, APR. 29, 1974,  
 LOWEST WATER LEVEL 30.37 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 19, 1973	29.13A	OCT. 30, 1973	29.00	APR. 5, 1974	27.99	APR. 10, 1975	28.45
SEP. 25	29.35	MAR. 4, 1974	27.94	APR. 29	27.81	OCT. 1	30.37

A--PUMPING WATER LEVEL.

05N01W16BCC1. BOB ANDERSON. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 130 FT. LSD 211 FT ABOVE MSL. MP BASE OF LARGE OPENING ON SOUTHWEST SIDE, 0.70 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 211.00 FEET.

HIGHEST WATER LEVEL 44.36 BELOW LSD, MAY 2, 1973,  
 LOWEST WATER LEVEL 47.56 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 29, 1973	44.50	SEP. 25, 1973	46.98	APR. 1, 1974	44.96	OCT. 1, 1975	47.56
:	:	:	:	:	:	:	:

05N01W29AAA1. PERRY. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN, DEPTH 130 FT. LSD 211 FT ABOVE MSL. MP TOP OF CASING ON SOUTH SIDE, 1.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 211.00 FEET.

HIGHEST WATER LEVEL 46.89 BELOW LSD, APR. 29, 1974,  
 LOWEST WATER LEVEL 48.21 BELOW LSD, SEP. 25, 1973.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 10, 1973	57.00A	OCT. 30, 1973	47.78	APR. 1, 1974	46.99	APR. 1, 1975	47.31
SEP. 25	48.21	MAR. 4, 1974	47.02	APR. 29	46.89		

A--PUMPING WATER LEVEL.

05N02W12BBC1. FRED SCHAEFER. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 16 IN, DEPTH 105 FT. LSD 204 FT ABOVE MSL. MP TOP OF CUTOUT ON WEST SIDE, 0.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 204.00 FEET.

HIGHEST WATER LEVEL 23.34 BELOW LSD, APR. 29, 1974,  
 LOWEST WATER LEVEL 25.22 BELOW LSD, SEP. 25, 1973.  
 RECORDS AVAILABLE 1973-74.

JULY 23, 1973	28.89A	SEP. 25, 1973	25.22	OCT. 30, 1973	24.85	MAR. 4, 1974	23.73
APR. 5, 1974	23.59	APR. 29, 1974	23.34				

A--PUMPING WATER LEVEL.

TABLE 55.—MEASUREMENTS OF WATER LEVELS IN WELLS, WOODRUFF COUNTY, ARK.—CONTINUED

05N02W20DCB1. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 192 FT ABOVE MSL. MP HOLE IN PUMP BASE AT LSD.  
ALTITUDE OF LAND SURFACE 192.00 FEET.

HIGHEST WATER LEVEL 8.24 BELOW LSD, APR. 30, 1973,  
LOWEST WATER LEVEL 13.01 BELOW LSD, OCT. 19, 1972.  
RECORDS AVAILABLE 1968-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 8, 1968	9.14	MAR. 24, 1972	11.65	SEP. 25, 1973	10.62	MAY 1, 1974	10.26
MAR. 20, 1969	10.00	OCT. 19	13.01	OCT. 31	10.96	APR. 10, 1975	9.32
MAR. 20, 1970	11.41	MAR. 29, 1973	9.33	MAR. 7, 1974	9.35	SEP. 17	10.70
MAR. 19, 1971	10.60	APR. 30	8.24	APR. 5	9.44	MAR. 9, 1976	10.42

05N04W12DBA1. W. P. DANIEL. DRILLED IRRIGATION ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN, DEPTH 92 FT, CASED 0-50, SCREENED 50-92. LSD 186 FT ABOVE MSL. MP HOLE IN BASE OF PUMP ON WEST SIDE, 1.20 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 186.00 FEET.

HIGHEST WATER LEVEL 2.50 BELOW LSD, APR. 10, 1975,  
LOWEST WATER LEVEL 10.22 BELOW LSD, OCT. 19, 1972.  
RECORDS AVAILABLE 1967, 1969-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 3, 1967	4.50	MAR. 24, 1972	5.72	SEP. 24, 1973	8.97	MAY 2, 1974	3.52
APR. 3	4.50	OCT. 19	10.22	OCT. 29	9.24	APR. 10, 1975	2.50
MAR. 27, 1969	3.71	MAR. 14, 1973	2.92	DEC. 5	4.21	SEP. 17	8.02
MAR. 27, 1970	4.05	MAR. 29	2.93	MAR. 7, 1974	3.74	APR. 17, 1976	5.32
MAR. 19, 1971	3.80	MAY 15	2.76	APR. 5	4.62		

06N01W06BAB1. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 8 IN. LSD 200 FT ABOVE MSL. MP TOP OF PIT CASING, 0.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 200.00 FEET.

HIGHEST WATER LEVEL 12.01 BELOW LSD, APR. 30, 1973,  
LOWEST WATER LEVEL 16.65 BELOW LSD, OCT. 19, 1972.  
RECORDS AVAILABLE 1970-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 7, 1970	15.04	MAR. 29, 1973	12.88	MAR. 7, 1974	13.29	APR. 10, 1975	12.86
MAR. 22, 1971	13.70	APR. 30	12.01	APR. 4	13.33	SEP. 30	15.36
MAR. 24, 1972	15.82	SEP. 25	14.58	MAY 1	13.14	APR. 7, 1976	14.64
OCT. 19	16.65	NOV. 1	14.95				

06N01W33ADB1. GEORGE SMITH ESTATE. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 216 FT ABOVE MSL. MP 2 IN. GRAVEL PIPE SOUTHWEST CORNER OF WELL, 0.70 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 216.00 FEET.

HIGHEST WATER LEVEL 37.88 BELOW LSD, MAY 2, 1973,  
LOWEST WATER LEVEL 45.19 BELOW LSD, OCT. 1, 1975.  
RECORDS AVAILABLE 1969, 1971-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 13, 1969	53.29A	OCT. 13, 1972	44.66	SEP. 25, 1973	43.03	APR. 10, 1975	42.92
MAR. 29, 1971	41.67	MAR. 29, 1973	39.98	OCT. 30	43.78	OCT. 1	45.19
MAR. 24, 1972	42.73	MAY 2	37.88	APR. 5, 1974	42.34	MAR. 9, 1976	43.94

A--PUMPING WATER LEVEL.

TABLE 55.—MEASUREMENTS OF WATER LEVELS IN WELLS, WOODRUFF COUNTY, ARK.—CONTINUED

06N02W10DAA1. MCCAN. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 130 FT. LSD 208 FT ABOVE MSL. MP TOP OF CASING ON EAST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 208.00 FEET.

HIGHEST WATER LEVEL 19.49 BELOW LSD, APR. 10, 1975,  
 LOWEST WATER LEVEL 21.90 BELOW LSD, SEP. 30, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 18, 1973	35.90A	NOV. 1, 1973	21.14	APR. 4, 1974	19.69	SEP. 30, 1975	21.90
SEP. 25	21.72	FEB. 7, 1974	19.98	APR. 10, 1975	19.49	APR. 17, 1976	20.74

A--PUMPING WATER LEVEL.

06N02W18CDD1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN. LSD 221 FT ABOVE MSL. MP TOP OF CASING ON SOUTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 221.00 FEET.

HIGHEST WATER LEVEL 34.94 BELOW LSD, APR. 10, 1975,  
 LOWEST WATER LEVEL 37.17 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 29, 1973	35.49	SEP. 25, 1973	37.11	MAR. 7, 1974	35.56	MAY 1, 1974	35.41
APR. 30	35.00	NOV. 1	37.17	APR. 4	36.65	APR. 10, 1975	34.94

06N03W08CBB1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 203 FT ABOVE MSL. MP TOP OF 1 IN. NIPPLE, 2.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 203.00 FEET.

HIGHEST WATER LEVEL 8.27 BELOW LSD, MAY 15, 1973,  
 LOWEST WATER LEVEL 16.21 BELOW LSD, DEC. 17, 1969.  
 RECORDS AVAILABLE 1969-70, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 17, 1969	16.21	SEP. 24, 1973	12.56	MAR. 7, 1974	11.76	APR. 10, 1975	9.20
MAR. 27, 1970	15.86	OCT. 29	13.35	APR. 5	12.13	SEP. 17	12.34
MAY 15, 1973	8.27	DEC. 5	14.02	MAY 2	11.53	APR. 17, 1976	12.14

06N04W27AAA1 W. P. DANIEL. DRILLED IRRIGATION ARTESIAN WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN. LSD 190 FT ABOVE MSL. MP PLUG IN EAST SIDE OF PUMP, 3.43 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 190.00 FEET.

HIGHEST WATER LEVEL 2.43 BELOW LSD, APR. 10, 1975,  
 LOWEST WATER LEVEL 9.19 BELOW LSD, OCT. 29, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 15, 1973	2.94	DEC. 5, 1973	2.74	MAY 2, 1974	3.50	SEP. 17, 1975	8.04
SEP. 24	8.03	MAR. 7, 1974	3.62	APR. 10, 1975	2.43	APR. 17, 1976	6.15
OCT. 29	9.19	APR. 5	4.71				

TABLE 55.—MEASUREMENTS OF WATER LEVELS IN WELLS, WOODRUFF COUNTY, ARK.—CONTINUED

07N01W01BAB1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 140 FT. LSD 220 FT ABOVE MSL. MP TOP OF CASING ON EAST SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 220.00 FEET.

HIGHEST WATER LEVEL 42.29 BELOW LSD, MAR. 4, 1974,  
 LOWEST WATER LEVEL 45.35 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 19, 1973	63.20A	NOV. 1, 1973	44.08	APR. 4, 1974	43.22	OCT. 1, 1975	45.35
SEP. 25	43.63	MAR. 4, 1974	42.29	APR. 11, 1975	43.41	APR. 17, 1976	44.17

A--PUMPING WATER LEVEL.

07N01W08BCB1. G. L. MORRIS ESTATE. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DEPTH 120 FT. LSD 204 FT ABOVE MSL. MP HOLE IN SOUTHWEST SIDE OF PUMP, 0.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 204.00 FEET.

HIGHEST WATER LEVEL 12.86 BELOW LSD, APR. 30, 1973,  
 LOWEST WATER LEVEL 16.63 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB. 1, 1973	14.43	SEP. 25, 1973	14.03	APR. 4, 1974	13.37	OCT. 1, 1975	16.63
MAR. 30	13.64	NOV. 7	14.48	APR. 10, 1975	14.49	APR. 17, 1976	15.69
APR. 30	12.86	MAR. 7, 1974	13.28				

07N01W18CCC1. GOOD HOPE CHURCH. DRIVEN ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DEPTH 18.0 FT. LSD 203 FT ABOVE MSL. MP TOP OF PITCHER, 2.30 FT ABOVE MSL. DESTROYED 4/10/75. ALTITUDE OF LAND SURFACE 203.00 FEET.

HIGHEST WATER LEVEL 8.87 BELOW LSD, APR. 30, 1973,  
 LOWEST WATER LEVEL 10.69 BELOW LSD, NOV. 1, 1973.  
 RECORDS AVAILABLE 1973-74.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 29, 1973	9.97	SEP. 25, 1973	10.36	MAR. 7, 1974	9.72	MAY 1, 1974	9.58
APR. 30	8.87	NOV. 1	10.69	APR. 4	9.72		

07N01W22BCA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 135 FT. LSD 221 FT ABOVE MSL. MP TOP OF CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 221.00 FEET.

HIGHEST WATER LEVEL 37.39 BELOW LSD, MAR. 4, 1974,  
 LOWEST WATER LEVEL 39.59 BELOW LSD, OCT. 1, 1975, MAR. 9, 1976.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 19, 1973	58.70A	NOV. 7, 1973	38.34	APR. 4, 1974	37.75	MAR. 9, 1976	39.59
SEP. 25	38.62	MAR. 4, 1974	37.39	OCT. 1, 1975	39.59		

A--PUMPING WATER LEVEL.

TABLE 55.—MEASUREMENTS OF WATER LEVELS IN WELLS, WOODRUFF COUNTY, ARK.—CONTINUED

07N01W28DDD1. UNUSED WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 218 FT ABOVE MSL. MP TOP OF PIPE, 3.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 218.00 FEET.

HIGHEST WATER LEVEL 33.62 BELOW LSD, MAY 2, 1973,  
LOWEST WATER LEVEL 36.11 BELOW LSD, OCT. 1, 1975.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 2, 1973	33.62	MAR. 4, 1974	34.06	APR. 29, 1974	33.87	OCT. 1, 1975	36.11
SEP. 28	34.98	APR. 4	34.14	APR. 10, 1975	34.33	MAR. 9, 1976	35.37
NOV. 7	34.81						

07N02W17C8D1. BILLY H. ROBERTSON. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, LSD 196 FT ABOVE MSL. MP 1.25 IN COUPLING IN PIPE, 1.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 196.00 FEET.

HIGHEST WATER LEVEL 4.35 BELOW LSD, APR. 30, 1973,  
LOWEST WATER LEVEL 9.22 BELOW LSD, OCT. 19, 1972.  
RECORDS AVAILABLE 1969-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 20, 1969	6.99	OCT. 19, 1972	9.22	NOV. 7, 1973	9.06	MAY 1, 1974	5.79
APR. 7, 1970	6.36	MAR. 29, 1973	5.13	MAR. 7, 1974	5.93	APR. 10, 1975	4.69
MAR. 31, 1971	7.02	APR. 30	4.35	APR. 4	6.99	MAR. 9, 1976	4.99
MAR. 24, 1972	8.50	OCT. 3	8.60				

07N03W20B8A1. MOODY WHITEHEAD. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 120 FT. LSD 204 FT ABOVE MSL. MP HOLE IN PUMP BASE ON EAST SIDE, 1.00 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 204.00 FEET.

HIGHEST WATER LEVEL 5.13 BELOW LSD, APR. 10, 1975,  
LOWEST WATER LEVEL 10.47 BELOW LSD, OCT. 29, 1973.  
RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 18, 1973	28.83A	DEC. 5, 1973	9.47	MAY 2, 1974	6.76	SEP. 17, 1975	9.66
SEP. 24	10.43	MAR. 7, 1974	6.57	APR. 10, 1975	5.13	APR. 17, 1976	8.63
OCT. 29	10.47	APR. 5	7.46				

A--PUMPING WATER LEVEL.

07N03W30DAA1. TOM STANLEY. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 202 FT ABOVE MSL. MP TOP OF CASING, 0.50 FT ABOVE LSD.  
ALTITUDE OF LAND SURFACE 202.00 FEET.

HIGHEST WATER LEVEL 3.56 BELOW LSD, MAY 15, 1973,  
LOWEST WATER LEVEL 12.21 BELOW LSD, SEP. 24, 1974.  
RECORDS AVAILABLE 1973-75.

DEC. 5, 1973 10.06, MAR. 7, 1974 5.96, APR. 5, 1974 6.42, MAY 2, 1974 5.76,  
APR. 10, 1975 4.59.



TABLE 55.—MEASUREMENTS OF WATER LEVELS IN WELLS, WOODRUFF COUNTY, ARK.—CONTINUED

08N01W10AAA1. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 18 IN, DEPTH 110 FT. LSD 208 FT ABOVE MSL. MP 0.5 IN PIPE NIPPLE NORTH SIDE, 1.50 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 208.00 FEET.

HIGHEST WATER LEVEL 24.05 BELOW LSD, APR. 3, 1974,  
 LOWEST WATER LEVEL 26.94 BELOW LSD, MAR. 10, 1976.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 21, 1973	36.76A	OCT. 31, 1973	25.01	APR. 3, 1974	24.05	SEP. 25, 1975	26.85
SEP. 27	24.84	MAR. 6, 1974	24.27	APR. 11, 1975	25.40	MAR. 10, 1976	26.94

A--PUMPING WATER LEVEL.

08N01W20CDC1. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 207 FT ABOVE MSL. MP TOP OF NIPPLE IN ELBOW, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 207.00 FEET.

HIGHEST WATER LEVEL 12.46 BELOW LSD, MAY 3, 1973,  
 LOWEST WATER LEVEL 18.87 BELOW LSD, OCT. 1, 1975.  
 RECORDS AVAILABLE 1970, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 7, 1970	17.22	OCT. 31, 1973	16.98	MAY 1, 1974	15.01	OCT. 1, 1975	18.87
MAY 3, 1973	12.46	MAR. 7, 1974	15.23	APR. 10, 1975	15.74	APR. 17, 1976	17.50
SEP. 25	16.57	APR. 3	15.19				

08N02W22CBB1. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE. LSD 204 FT ABOVE MSL. MP TOP OF PIPE EAST SIDE, 1.90 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 204.00 FEET.

HIGHEST WATER LEVEL 11.91 BELOW LSD, APR. 25, 1973,  
 LOWEST WATER LEVEL 14.44 BELOW LSD, OCT. 31, 1973.  
 RECORDS AVAILABLE 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 25, 1973	11.91	DEC. 5, 1973	14.12	MAY 1, 1974	12.49	SEP. 16, 1975	13.94
SEP. 27	14.10	MAR. 7, 1974	12.55	APR. 3, 1975	12.35	APR. 10, 1976	13.14
OCT. 31	14.44	APR. 3	12.43				

08N03W14AAC1. DRILLED IRRIGATION ARTESIAN WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 117.5 FT. LSD 210 FT ABOVE MSL. MP TOP OF CASING ON SOUTH SIDE, 0.20 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 210.00 FEET.

HIGHEST WATER LEVEL 9.41 BELOW LSD, APR. 10, 1975,  
 LOWEST WATER LEVEL 12.02 BELOW LSD, OCT. 29, 1973.  
 RECORDS AVAILABLE 1973-75.  
 SEP. 25, 1973 11.88, OCT. 29, 1973 12.02, MAR. 7, 1974 10.04, APR. 3, 1974 9.86,  
 APR. 10, 1975 9.41.

TABLE 55.—MEASUREMENTS OF WATER LEVELS IN WELLS, WOODRUFF COUNTY, ARK.—CONTINUED

08N03W31AAD1. E. B. CONNER. DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 14 IN, DEPTH 110 FT, CASED 0-80, SCREENED 80-110. LSD 212 FT ABOVE MSL. MP HOLE IN EAST SIDE OF PIT CASING, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 212.00 FEET.

HIGHEST WATER LEVEL 16.07 BELOW LSD, DEC. 10, 1959,  
 LOWEST WATER LEVEL 22.94 BELOW LSD, SEP. 26, 1963.  
 RECORDS AVAILABLE 1957-64, 1967, 1972-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 15, 1959	17.26	OCT. 18, 1960	19.43	FEB. 20, 1963	17.60	OCT. 19, 1972	21.50
JULY 14	18.04	NOV. 17	19.22	APR. 16	18.75	MAR. 14, 1973	19.78
AUG. 10	19.10	DEC. 14	19.11	SEP. 26	22.94	MAR. 29	19.79
SEP. 23	20.13	JAN. 17, 1961	18.77	DEC. 4	20.50	APR. 25	19.22
OCT. 20	17.69	APR. 18	18.32	JAN. 29, 1964	20.67	OCT. 3	20.62
NOV. 18	17.18	AUG. 8	21.83	MAR. 10	20.94	OCT. 29	18.78
DEC. 10	16.07	NOV. 29	21.67	MAY 20	20.93	DEC. 5	18.47
JAN. 19, 1960	18.20	FEB. 7, 1962	17.78	JULY 23	21.73	MAR. 7, 1974	19.53
FEB. 16	17.83	APR. 17	17.36	NOV. 24	21.43	APR. 3	17.07
MAR. 16	17.51	JUNE 6	17.96	JAN. 26, 1967	20.30	MAY 1	17.14
APR. 4	17.50	AUG. 13	18.47	APR. 11	20.40	APR. 10, 1975	16.76
JUNE 15	19.67	NOV. 22	18.36	JUNE 2	21.10	SEP. 30	17.68
AUG. 23	19.17	DEC. 12	18.48	MAR. 24, 1972	20.06	MAR. 12, 1976	17.41
SEP. 22	19.69						

08N03W32DBB1. A. DANIEL. DRILLED IRRIGATION WATER-TABLE WELL IN TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 12 IN, DEPTH 110 FT. LSD 216 FT ABOVE MSL. MP TOP OF CASING ON NORTH SIDE, 1.00 FT ABOVE LSD. ALTITUDE OF LAND SURFACE 216.00 FEET.

HIGHEST WATER LEVEL 19.04 BELOW LSD, APR. 10, 1975,  
 LOWEST WATER LEVEL 24.22 BELOW LSD, SEP. 24, 1973.  
 RECORDS AVAILABLE 1969, 1973-76.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 16, 1969	23.78	OCT. 29, 1973	21.23	APR. 3, 1974	19.35	SEP. 17, 1975	20.35
JULY 18, 1973	39.65A	DEC. 5	20.80	APR. 10, 1975	19.04	APR. 17, 1976	19.09
SEP. 24	24.22	MAR. 7, 1974	19.85				

A--PUMPING WATER LEVEL.

09N03W27AAD1. DRIVEN WATER-TABLE WELL IN TERRACE DEPOSIT OF QUATERNARY AGE, DIAM 1.25 IN, DEPTH 23.0 FT. LSD 224 FT ABOVE MSL. MP TOP OF PITCHER, 1.80 FT ABOVE MSL. ALTITUDE OF LAND SURFACE 224.00 FEET.

HIGHEST WATER LEVEL 10.91 BELOW LSD, APR. 3, 1974,  
 LOWEST WATER LEVEL 14.13 BELOW LSD, NOV. 7, 1973.  
 RECORDS AVAILABLE 1973.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 25, 1973	12.27	NOV. 7, 1973	14.13	MAR. 6, 1974	11.60	APR. 3, 1975	11.24
SEP. 26	13.64	DEC. 5	12.69	APR. 3	10.91	SEP. 30	12.96

TABLE 56.--LOG OF TEST HOLES AND WELLS

WOODRUFF COUNTY, ARKANSAS

351504091074201. LOG OF TEST HOLE BY USGS. DRILLED; JANUARY 9, 1975  
 LAND SURFACE ALTITUDE 203 FT.

LOCATION: 07N01W08BBB1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	3.0	3.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY -----	7.0	10.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	11.0	21.0
SAND, FINE -----	10.0	31.0
SAND, MEDIUM-----	10.0	41.0
SAND, MEDIUM TO COARSE -----	20.0	61.0
SAND, MEDIUM TO COARSE; SOME LIGNITIC FRAGMENTS	8.0	69.0
SAND, COARSE; SOME VERY COARSE SAND AND FINE GRAVEL -----	17.0	86.0
SAND, VERY COARSE, GRAVELLY -----	22.0	108.0
GRAVEL, SANDY -----	15.0	123.0
TERTIARY DEPOSITS:		
SAND, FINE, SILTY, LIGHT GRAY, INTERBEDDED WITH SOME CLAY -----	38.0	161.0

TABLE 56.--LOG OF TEST HOLES AND WELLS--CONTINUED

WOODRUFF COUNTY, ARKANSAS

351504091022801. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 13, 1975  
 LAND SURFACE ALTITUDE 218 FT.

LOCATION: 07N01W12AAA1.

	THICKNESS (FEET)	DEPTH (FEET)
QUATERNARY DEPOSITS:		
CLAY, SILTY, LIGHT GRAY -----	7.0	7.0
CLAY, SILTY, MOTTLED YELLOW AND GRAY-----	6.0	13.0
SILT, SANDY, YELLOWISH-GRAY -----	3.0	16.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	12.0	28.0
SAND, FINE TO MEDIUM-----	9.0	37.0
SAND, MEDIUM, SOME COARSE SAND -----	24.0	61.0
SAND, MEDIUM, TO COARSE; SOME VERY COARSE SAND AND FINE GRAVEL -----	25.0	86.0
SAND, COARSE TO VERY COARSE, GRAVELLY; CONTAINS SOME CALCITIC GRAINS-----	16.0	102.0
SAND, VERY COARSE, GRAVELLY -----	11.0	113.0
GRAVEL, SANDY; CONTAINS SOME CALCITIC GRAINS----	51.0	164.0
TERTIARY(?) DEPOSITS:		
DRILLING CHARACTERISTICS OF FINE SAND; NO SAMPLE RECOVERY -----	17.0	181.0

TABLE 56.—LOG OF TEST HOLES AND WELLS--CONTINUED

WOODRUFF COUNTY, ARKANSAS

351610091141001. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 9, 1975  
 LAND SURFACE ALTITUDE 195 FT.

LOCATION: 07N02W06AAA1.

	THICKNESS (FEET)	DEPTH (FEET)
QUATERNARY DEPOSITS:		
SAND, FINE, SILTY, REDDISH-GRAY -----	7.0	7.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	16.0	23.0
SAND, FINE TO MEDIUM, SOME COARSE SAND AND LIGNITIC FRAGMENTS -----	17.0	40.0
SAND, MEDIUM TO COARSE -----	20.0	60.0
SAND, COARSE TO VERY COARSE; SOME FINE GRAVEL	11.0	71.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	25.0	96.0
SAND, VERY COARSE, GRAVELLY -----	32.0	128.0
GRAVEL, SANDY -----	11.0	139.0
TERTIARY DEPOSITS:		
SAND, FINE, SILTY, LIGHT GRAY -----	22.0	161.0

TABLE 56.—LOG OF TEST HOLES AND WELLS--CONTINUED

WOODRUFF COUNTY, ARKANSAS

351708091202801. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 7, 1975  
 LAND SURFACE ALTITUDE 213 FT.

LOCATION: 08N03W31AAA1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	3.0	3.0
QUATERNARY DEPOSITS:		
CLAY, BROWNISH-GRAY -----	9.0	12.0
SILT, CLAYEY, YELLOWISH-GRAY-----	5.0	17.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	11.0	28.0
SAND, FINE TO MEDIUM; CONTAINS SOME LIGNITIC FRAGMENTS -----	13.0	41.0
SAND, MEDIUM TO COARSE; SOME VERY COARSE SAND AND FINE GRAVEL -----	34.0	75.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	40.0	115.0
TERTIARY(?) DEPOSITS:		
CLAY, SILTY, DARK GRAY -----	11.0	126.0

TABLE 56.--LOG OF TEST HOLES AND WELLS--CONTINUED  
 WOODRUFF COUNTY, ARKANSAS

351706091174701. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 7, 1975  
 LAND SURFACE ALTITUDE 220 FT.

LOCATION: 08N03W34BAA1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	3.0	3.0
QUATERNARY DEPOSITS:		
CLAY, YELLOWISH-GRAY-----	5.0	8.0
CLAY, SILTY, YELLOWISH-GRAY -----	4.0	12.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	9.0	21.0
SAND, FINE TO MEDIUM; SOME COARSE SAND -----	28.0	49.0
SAND, MEDIUM TO COARSE; SOME VERY COARSE SAND	21.0	70.0
SAND, COARSE; SOME VERY COARSE SAND AND FINE GRAVEL -----	23.0	93.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	18.0	111.0
GRAVEL, SANDY -----	14.0	125.0
TERTIARY(?) DEPOSITS:		
SAND, FINE, SILTY, LIGHT GRAY -----	26.0	151.0

TABLE 56.--LOG OF TEST HOLES AND WELLS--CONTINUED

WOODRUFF COUNTY, ARKANSAS

351704091160601. LOG OF TEST HOLE BY USGS. DRILLED: JANUARY 8, 1975  
 LAND SURFACE ALTITUDE 212 FT.

LOCATION: 08N03W36BBB1.

	THICKNESS (FEET)	DEPTH (FEET)
ROADFILL-----	3.0	3.0
QUATERNARY DEPOSITS:		
CLAY, SILTY, YELLOWISH-GRAY -----	5.0	8.0
SILT, SANDY, YELLOWISH-GRAY -----	7.0	15.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	11.0	26.0
SAND, FINE TO MEDIUM; SOME COARSE SAND AND LIGNITIC FRAGMENTS -----	29.0	55.0
SAND, MEDIUM TO COARSE; SOME VERY COARSE SAND AND FINE GRAVEL -----	16.0	71.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	54.0	125.0
GRAVEL, SANDY -----	10.0	135.0
TERTIARY(?) DEPOSITS:		
CLAY AND SAND, INTERBEDDED (INCOMPLETE SAMPLE RECOVERY)-----	61.0	196.0



TABLE 56.--LOG OF TEST HOLES AND WELLS--CONTINUED

WOODRUFF COUNTY, ARKANSAS

351722091232001. LOF OF TEST HOLE BY USGS. DRILLED; JANUARY 7, 1975  
 LAND SURFACE ALTITUDE 200 FT.

LOCATION: 08N04W26CAC1.

	THICKNESS (FEET)	DEPTH (FEET)
QUATERNARY DEPOSITS:		
CLAY, YELLOWISH-GRAY-----	8.0	8.0
CLAY, SILTY, YELLOWISH-GRAY -----	7.0	15.0
SAND, FINE, SILTY, YELLOWISH-GRAY -----	10.0	25.0
SAND, MEDIUM; SOME COARSE SAND AND LIGNITIC FRAGMENTS -----	18.0	43.0
SAND, MEDIUM TO COARSE; SOME VERY COARSE SAND AND FINE GRAVEL -----	12.0	55.0
SAND, COARSE TO VERY COARSE, GRAVELLY -----	14.0	69.0
CRETACEOUS(?) DEPOSITS:		
HARD ROCK, NO SAMPLE RECOVERY -----	1.0	70.0

TABLE 57.—CHEMICAL ANALYSES OF GROUND WATER, WOODRUFF COUNTY, ARK.

STATION NUMBER	COUNTY	LOCAL IDENTIFIER	SITE	GEO-LOGIC UNIT	DATE OF SAMPLE	DEPTH (FT)	TEMPERATURE (DEG C)	FLOW RATE (GPM)	COLOR (PLAT-INUM-COBALT UNITS)
350318091100201	147	05N02W128BC1	GW	112TRHC	73-07-23	--	17.5	1885	--
	147		GW	112TRHC	74-06-24	--	16.5	1880	2
350623091214401	147	06N03W318CB1	GW	111ALVM	74-08-13	--	16.5	900	100
350946091100601	147	06N02W11AAA1	GW	112TRHC	74-08-14	128	16.5	1280	40
351337091201701	147	07N03W208BA1	GW	112TRHC	73-07-18	--	17.5	1510	--
	147		GW	112TRHC	74-08-13	--	17.5	1510	40
351435091195201	147	07N03W08DCC1	GW	112TRHC	74-08-13	--	17.5	840	40
351453091073601	147	07N01W08BCB1	GW	112TRHC	74-08-14	--	16.8	1230	40
351642091194501	147	08N03W32DBB1	GW	112TRHC	73-07-18	--	17.0	915	--
	147		GW	112TRHC	74-06-27	--	16.6	920	5

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISE-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL SULFIDE (S) (MG/L)	HARDNESS (CA, MG) (MG/L)
350318091100201	73-07-23	370	--	--	--	--	--	--	--	--	--
	74-06-24	346	7.7	6.9	177	216	0	.01	--	--	170
350623091214401	74-08-13	249	6.7	48	122	149	0	.01	.66	.1	110
350946091100601	74-08-14	420	7.2	26	212	258	0	.03	.35	.2	190
351337091201701	73-07-18	310	--	--	--	--	--	--	--	--	--
	74-08-13	305	6.9	34	139	170	0	.25	.20	--	140
351435091195201	74-08-13	368	7.1	24	152	185	0	.06	.34	--	150
351453091073601	74-08-14	612	7.4	22	281	343	0	.01	.30	--	290
351642091194501	73-07-18	460	--	--	--	--	--	--	--	--	--
	74-06-27	421	7.4	16	204	249	0	.00	--	--	190

TABLE 57.—CHEMICAL ANALYSES OF GROUND WATER, WOODRUFF COUNTY, ARK.—CONTINUED

STATION NUMBER	DATE OF SAMPLE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	PERCENT SODIUM	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
350318091100201	73-07-23	--	--	--	--	--	--	--	--	--	--
	74-06-24	0	49	11	7.5	.3	9	1.2	3.9	5.0	.1
350623091214401	74-08-13	0	28	10	7.7	.3	13	1.3	3.8	5.1	.1
350946091100601	74-08-14	0	54	14	14	.4	14	2.0	7.0	9.2	.2
351337091201701	73-07-18	--	--	--	--	--	--	--	--	--	--
	74-08-13	0	39	9.3	8.2	.3	11	2.2	4.2	13	.1
351435091195201	74-08-13	2	45	10	14	.5	16	2.7	5.7	31	.2
351453091073601	74-08-14	11	84	20	19	.5	12	1.9	14	32	.2
351642091194501	73-07-18	--	--	--	--	--	--	--	--	--	--
	74-06-27	0	55	13	12	.4	12	1.8	9.0	10	.1

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
350318091100201	73-07-23	--	--	--	--	--	--
	74-06-24	37	1800	540	204	224	.28
350623091214401	74-08-13	30	11000	630	162	171	.22
350946091100601	74-08-14	40	5700	1200	266	275	.36
351337091201701	73-07-18	--	--	--	--	--	--
	74-08-13	34	6300	1500	186	203	.25
351435091195201	74-08-13	41	4600	1500	232	247	.32
351453091073601	74-08-14	38	3000	1200	363	382	.49
351642091194501	73-07-18	--	--	--	--	--	--
	74-06-27	41	4200	1800	249	271	.34