

Table 3.--Chemical analyses of water from wells in Choctaw County

Well numbers given for this report correspond to those shown on figure 2 and given in table 2. Additional chemical analyses of water for wells are published in reports by Toulmin and others (1951, p. 33-34) and Powell and others (1963, p. 30).

Water-bearing unit: Tn, Naheola Formation; Tnf, Nanafalia Formation; Ttu, Tuscahoma Sand; Th, Hatchetigbee Formation; Tt, Tallahatta Formation; Tgl, Gosport Sand and Lisbon Formation; Qal, alluvium and low terrace deposits.

Number This report Toulmin and others (1951)		Stream name or well owner	Date of collection	Water- bearing unit	Stream discharge (mgd) or well depth (feet)	Milligrams per liter														Hardness as CaCO ₃		Specific conductance (micromhos at 25° C)	PH	Temperature	
						Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Dissolved solids (calcu- lated)	Calcium, magnesium	Non- car- bon- ate	° C			° F	
C-1	...	Fred Robinson....	6-20-67	Tnf	125	...	0.83	...	...	...	...	92	0	...	3.2	...	...	...	14	0	178	7.4	19	67	
D-1	14	J. T. Allen, Jr..	6- 1-67	Ttu, Tnf	142	...	.04	...	...	...	...	151	0	...	18	...	...	...	21	0	314	7.6	22	71	
D-2	15	Meridian and Bigbee River Railway.	6- 1-67	Ttu, Tnf	150	...	.02	...	...	...	...	169	3	...	15	...	...	...	14	0	331	8.4	19	66	
E-1	17	W. D. Morgan, Jr.	6- 2-67	Ttu	270	...	24	...	...	...	...	34	0	...	3.8	...	...	...	20	0	67	6.7	19	66	
G-1	21	J. B. Rainer.....	6- 2-67	Ttu	365	...	.07	...	...	...	...	207	2	...	3.8	...	...	...	42	0	350	8.3	21	69	
G-2	19	Mrs. L. M. Douglas	6- 2-67	Ttu	136	...	1.2	...	...	...	...	138	0	...	9.0	...	...	...	102	0	281	7.8	20	68	
H-1	...	Choctaw County Board of Education.	6-26-67	Ttu	126	...	.24	...	...	...	...	425	0	...	7.2	...	...	...	29	0	425	8.2	21	69	
H-2	22	do.....	6- 2 -67	Ttu	230	...	.10	...	...	...	...	270	4	...	13	...	...	...	18	0	475	8.4	22	71	
H-3	27	J. W. Hanna.....	6- 2-67	Ttu, Tnf	425	...	.04	...	...	...	...	264	20	...	3.0	...	...	...	14	0	482	8.8	21	69	
H-4	26	American Can Co.	6-26-67	Ttu	250	...	12	...	...	...	...	110	0	...	2.6	...	...	...	78	0	206	6.4	21	69	
I-1	28	C. D. Downey.....	6-13-67	Tnf	212	...	.08	...	...	...	...	39	0	...	7.2	...	...	...	36	4	97	7.2	...	...	

Table 3.--Chemical analyses of water from wells in Choctaw County--Continued

Number		Stream name or well owner	Date of collection	Water- bearing unit	Stream- discharge (mgd) or well depth (feet)	Milligrams per liter														Hardness as CaCO ₃		Specific conductance (micromhos at 25° C)	PH	Temperature	
This re- port	Toul- min and oth- ers (1951)					Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Dissolved solids (calcu- lated)	Calcium, magnesium	Non- car- bon- ate	° C			° F	
J-1	32	Choctaw County Board of Education.	6-13-67	Tn	90	...	0.28	...	...	...	...	168	2	...	6.2	...	...	...	8	0	289	8.4	21	70	
J-3	...	C. C. Norwood....	6-13-67	Tnf	242	...	0.05	...	...	...	...	296	11	...	63	...	...	...	5	0	693	8.6	21	69	
J-4	...	do.....	6- 5-67	Tnf	251	...	.08	...	...	...	...	275	9	...	38	...	...	...	25	0	586	8.4	23	73	
J-5	...	C. A. Ezell.....	6- 5-67	Tnf	155	...	.05	...	...	...	...	312	2	...	67	...	...	...	10	0	704	8.4	19	66	
J-5	...	do.....	6-26-67	Tnf	155	12	.15	2.0	0.0	159	2.5	296	13	0.0	71	0.3	0.4	405	5	0	716	8.7	...	...	
K-1	37	U.S. Army Corps of Engineers.	6- 5-67	Tn	515	...	.43	...	...	...	...	223	4	...	117	...	...	...	5	0	753	8.3	19	67	
L-1	42	W. C. Tillman....	6- 6-67	Tnf	190	...	.05	...	...	...	...	272	22	...	80	...	...	...	5	0	735	8.7	19	67	
L-2	...	Choctaw County Board of Education.	6- 5-67	Tnf	450	...	.05	...	...	...	...	298	9	...	70	...	...	...	5	0	718	8.6	22	72	
L-3	43	Waters Estate....	6-13-67	Tnf	160	...	.03	...	...	...	...	307	16	...	72	...	...	...	6	0	766	8.7	20	68	
L-4	44	do.....	6-13-67	Tnf	160	...	.01	...	...	...	...	265	53	...	70	...	...	...	6	0	814	8.7	20	68	
L-5	47	J. J. Turner.....	6-26-67	Ttu	312	...	2.8	...	...	...	...	202	0	...	10	...	...	...	50	0	383	7.2	21	70	
M-1	48	M. T. Hurst.....	6-26-67	Ttu, Tnf	465	...	.08	...	...	...	...	284	12	...	162	...	...	...	8	0	991	8.7	21	70	

Table 3.--Chemical analyses of water from wells in Choctaw County--Continued

Number This re- port		Toul- min and oth- ers (1951)	Stream name or well owner	Date of collection	Water- bearing unit	Stream discharge (mgd) or well depth (feet)	Milligrams per liter														Hardness as CaCO ₃		Specific conductance (micromhos at 25° C)	PH	Temperature	
							Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Dissolved solids (Calcu- lated)	Calcium, magnesium	Non- car- bon- ate	° C			° F	
M-2	...	City of Butler...	6- 6-67	Tnf	663	...	0.19	...	...	...	...	380	8	...	5.8	...	...	...	8	0	628	8.5	...	...		
M-2	...	do.....	6-27-67	Tnf	663	18	.22	3.0	0.1	152	1.0	359	9	0.0	17	0.2	0.4	377	8	0	629	8.5	...	...		
M-3	54	do.....	6- 6-67	Ttu	415	...	.39	...	...	...	...	263	17	...	49	...	...	...	4	0	628	8.7	...	...		
M-3	54	do.....	6-27-67	Ttu	415	13	.31	2.0	.0	153	1.2	274	12	.0	70	.4	.5	363	5	0	647	8.6	...	...		
M-4	...	do.....	6- 6-67	Tnf	707	...	.05	...	...	...	...	288	2	...	49	...	...	...	5	0	616	8.3	23	74		
N-1	61	Town of Riderwood	6- 7-67	Ttu	137	...	.09	...	...	...	...	190	0	...	3.8	...	...	...	89	0	360	8.2	20	68		
O-1	...	W. D. Smith.....	6-21-67	Th	490	...	.25	...	...	...	...	162	0	...	3.0	...	...	...	161	28	379	8.0	22	71		
R-1	...	W. F. Manley.....	6-19-67	Th	255	...	.04	...	...	...	...	138	5	...	3.6	...	...	...	8	0	324	8.7	...	...		
R-2	70	Ernest Land.....	6-26-67	Th	207	...	.05	...	...	...	...	136	12	...	1.4	...	...	...	2	0	325	9.2	19	67		
R-3	71	do.....	6-21-67	Th	215	...	.05	...	...	...	...	146	2	...	5.8	...	...	...	6	0	300	8.4	19	67		
S-1	...	J. R. Turner.....	6-23-67	Ttu	652	...	.06	...	...	...	...	461	20	...	7.0	...	...	...	11	0	777	8.7	21	70		
S-2	81	Choctaw County Board of Education.	6-13-67	Tnf	1,160	...	.27	...	...	...	...	290	4	...	56	...	...	...	5	0	646	8.3	23	73		
S-3	...	Gas Downey.....	6-20-67	Tgl, Tt, Th	295	...	.29	...	...	...	...	154	0	...	1.2	...	...	...	79	0	270	8.2	...	...		
T-1	83	Morgan Chapel....	6-23-67	Ttu	140	...	.08	...	...	...	...	286	12	...	2.8	...	...	...	12	0	485	8.6	19	67		

Table 3.--Chemical analyses of water from wells in Choctaw County--Continued

Number This re- port		Toul- min and oth- ers (1951)	Stream name or well owner	Date of collection	Water- bearing unit	Stream discharge (mgd) or well depth (feet)	Milligrams per liter														Hardness as CaCO ₃		Specific conductance (micromhos at 25° C)	PH	Temperature	
							Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Dissolved solids (Calcu- lated)	Calcium, magnesium	Non- car- bon- ate	° C			° F	
T-2	85	W. V. Williams....	6-21-67	Th, Ttu	348	...	0.17	...	...	...	...	508	34	...	9.6	...	...	...	15	0	901	8.9	20	68		
V-1	90	U.S. Army, Corps of Engineers.	6- 8-67	Th	245	...	.10	...	...	...	...	604	32	...	37	...	...	...	10	0	1,120	8.8	21	69		
W-1	93	M. L. Campbell....	6-21-67	Th	140	...	.03	...	...	...	...	154	6	...	2.4	...	...	...	5	0	368	8.5	20	68		
X-1	101	Cam Thompson.....	6-21-67	Th	150	...	.05	...	...	...	...	174	0	...	3.0	...	...	...	9	0	340	8.2	19	67		
X-2	...	Jackson Estate....	6-21-67	Th	240	...	.05	...	...	...	...	253	12	...	2.2	...	...	...	32	0	470	8.6	...	...		
X-3	103	M. F. Stewart.....	6-24-67	Th	200	...	.17	...	...	...	...	254	6	...	2.2	...	...	...	14	0	451	8.5	19	67		
X-4	...	V. C. McPhail.....	6-19-67	Tgl(?)	210	...	.12	...	...	...	...	366	15	...	4.0	...	...	...	10	0	626	8.7	...	...		
X-5	97	Mrs. J. F. James..	6-24-67	Tgl	165	...	.09	...	...	...	...	322	14	...	2.0	...	...	...	20	0	555	8.7	...	...		
Y-1	...	J. M. Bonner.....	6-22-67	Tgl	186	...	.05	...	...	...	...	218	2	...	2.0	...	...	...	15	0	393	8.3	19	66		
Y-3	116	Steve Scruggs.....	6-23-67	Tgl	175	...	.12	...	...	...	...	294	22	...	11	...	...	...	9	0	539	8.7	19	67		
Z-1	121	Ernest Land.....	6- 8-67	Tgl	490	...	.16	...	...	...	...	184	2	...	3.6	...	...	...	41	0	328	8.3	...	...		
Z-1	121	do.....	6-27-67	Tgl	490	37	.23	13	2.8	56	4	187	0	10	3.6	0.2	0.7	219	44	0	329	8.0	...	...		
AA-1	...	Manse Campbell....	6-22-67	Tgl	460	...	.95	...	...	...	...	923	12	...	15	...	...	...	22	0	1,430	8.3	...	...		
BB-1	124	L. C. Boney.....	6-22-67	Tgl	205	...	.17	...	...	...	...	652	37	...	7.4	...	...	...	15	0	1,110	8.6	20	68		
BB-2	127	Chester Pilot.....	6-24-67	Tgl	49	...	.10	...	...	...	...	592	19	...	2.8	...	...	...	8	0	1,000	8.6	21	69		

Table 3.--Chemical analyses of water from wells in Choctaw County--Continued

Number		Stream name or well owner	Date of collection	Water- bearing unit	Stream discharge (mgd) or well depth (feet)	Milligrams per liter														Hardness as CaCO ₃		Specific conductance (micromhos at 25° C)	PH	Temperature	
This re- port	Toul- min and oth- ers (1951)					Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Dissolved solids (Calcu- lated)	Calcium, magnesium	Non- car- bon- ate	° C			° F	
CC-1 135		O. B. Clark.....	6-23-67	Th	415	...	0.12	...	...	...	...	424	24	...	3.0	...	...	...	6	0	730	8.7	21	69	
CC-2 ...		G. E. Downey.....	6-19-67	Th	270	...	.11	...	...	...	...	314	18	...	4.2	...	...	...	12	0	573	8.6	...	...	
CC-3 ...		U.S. Army, Corps of Engineers.	6-10-67	Tgl	317	...	.15	...	...	...	...	471	14	...	15	...	...	...	19	0	806	8.4	...	...	
CC-4 139		Albert Hamrick...	6-24-67	Th	200	...	.14	...	...	...	...	130	0	...	1.8	...	...	...	4	0	234	7.9	20	68	
DD-1 ...		U.S. Army, Corps of Engineers.	6- 8-67	Tgl	334	...	.30	...	...	...	...	550	50	...	60	...	...	...	16	0	1,120	8.8	19	66	
FF-1 ...		do.....	6-12-67	Gal (?)	84	...	.59	...	...	...	...	108	0	...	4.2	...	...	...	10	0	185	7.8	21	70	
FF-2 146		John McDowell....	6-26-67	Th	600	...	.22	...	...	...	...	975	40	...	38	...	...	...	11	0	1,690	8.6	21	69	
FF-3 ...		Bobby Dahlberg...	6-12-67	Th, Ttu	750	...	.06	...	...	...	...	244	9	...	9.6	...	...	...	8	0	753	8.6	21	70	
FF-4 ...		U.S. Army, Corps of Engineers.	6-10-67	Th	325	...	.22	...	...	...	...	984	38	...	36	...	...	...	11	0	1,690	8.6	...	...	
FF-4 ...		do.....	6-27-67	Th	325	11	.20	3.5	1.3	1.18	...	1,040	10	0.0	34	1.6	1.6	992	14	0	1,680	8.3	...	...	
GG-2 155		Choctaw County Board of Education.	6-13-67	Th	225	...	.32	...	...	...	...	674	35	...	4.4	...	...	...	11	0	1,130	8.8	22	71	

Table 3.--Chemical analyses of water from wells in Choctaw County--Continued

Number This re- port (1951)	Stream name or well owner	Date of collection	Water- bearing unit	Stream- discharge (mgd) or well depth (feet)	Milligrams per liter														Hardness as CaCO ₃		Specific conductance (micromhos at 25° C)	pH	Temperature	
					Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magne- sium (Mg)	Sodium (Na)	Potas- sium (K)	Bicar- bonate (HCO ₃)	Car- bonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Dissolved solids (Calcu- lated)	Calcium, magnesium	Non- car- bon- ate	° C			° F	
GG-3 ...	Claude Wimberly..	6-19-67	Th	203	...	0.12	...	...	...	...	692	6	...	10	...	...	...	12	0	1,110	8.4	...	..	
GG-4 ...	Choctaw Manufact- uring Company.	6-19-67	Th	210	...	.10	...	...	...	...	667	0	...	6.6	...	...	...	14	0	1,110	8.2	...	..	
GG-5 152	W. G. Stanley....	6-24-67	Tgl	235	...	.14	...	...	...	...	220	0	...	1.8	...	...	...	79	0	372	7.2	22	71	
HH-1 160	Clarke Lumber Co.	6-23-67	Tgl	301	...	.06	...	...	...	...	354	0	...	2.6	...	...	...	20	0	601	8.2	22	71	
1/ Calculated Na plus K, reported as Na.																								

(200)

R290

no. 75-477

(6 sheets)