

STATE OF ARKANSAS

Arkansas Geological Commission

Bekki White, State Geologist

WATER RESOURCES SUMMARY 17

North Arkansas Ground Water Investigations: Cave City Graben Area

by

John David McFarland and William Prior



Little Rock, Arkansas

2005

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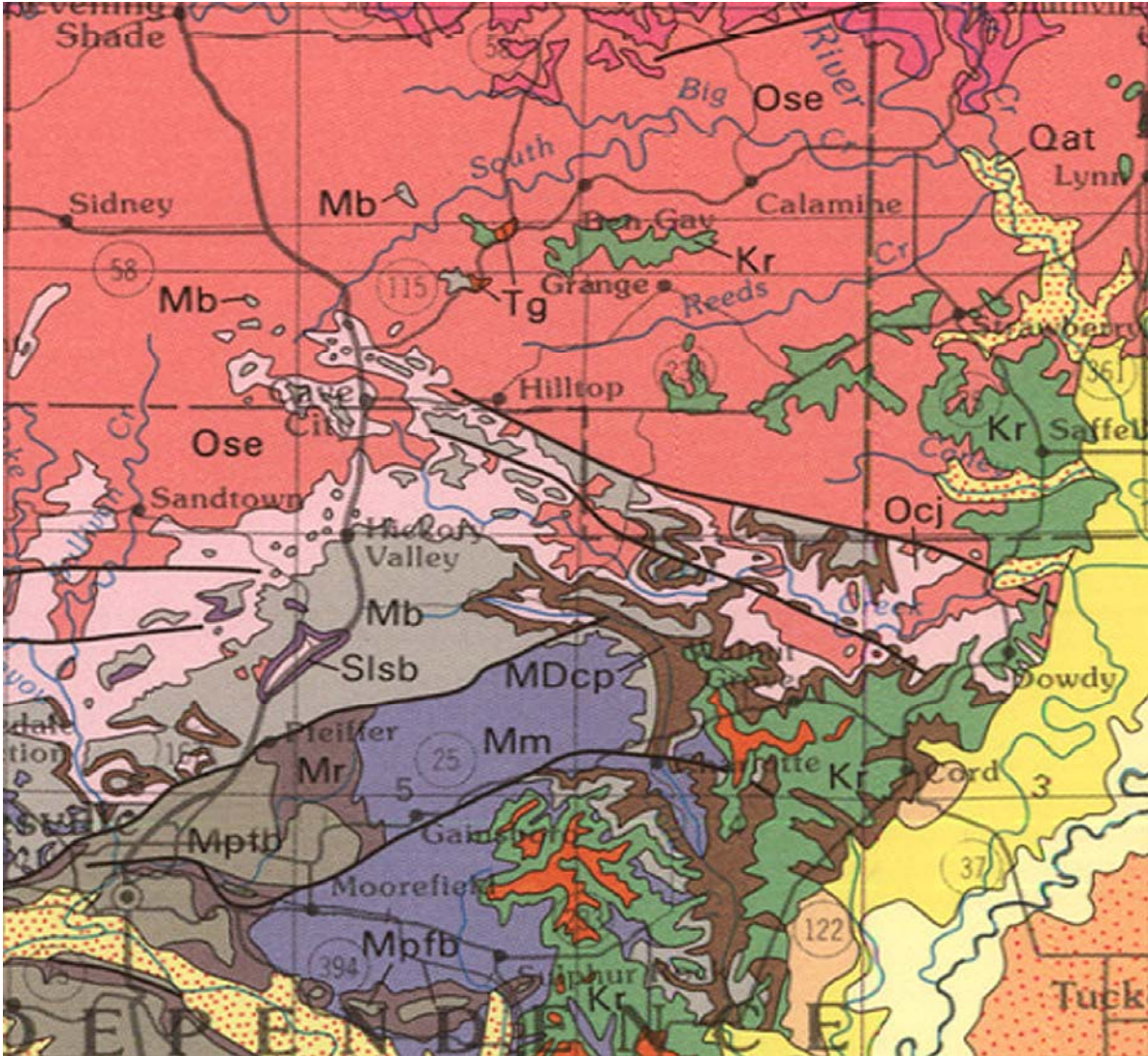
Introduction:

Ground-water extracted via water wells drilled to various depths is the main source of drinking water for many families and communities in north Arkansas. We conceived this investigation to test whether existing water well data coupled with basic geology could be used to illuminate yield patterns that might be useful in predicting potential production of new wells. We were particularly interested to see if there was any clearly observable influence of significant faults on the water well yields. We recognize that different regions of north Arkansas and different water producing formations will likely have different patterns of water yield; so, this investigation is considered preliminary and its results are not to be construed to be reflective of all of north Arkansas.

Study Area and Methodology:

The study area selected for this initial survey was 15 townships in southern Sharp and Lawrence Counties and northern Independence County centered roughly on a structural feature herein called the Cave City Graben. The Cave City Graben is a northwest trending structural feature bounded by normal faults. The northern-most of the bounding faults extends over 13 miles; the southern fault can be traced about 10 miles. Both faults may extend beyond their mapped extent. The width of the graben varies from about 1 mile on the northwestern end to about 2.5 miles on the southeastern end. The Graben runs from just east of Cave City southeast to the edge of the Mississippi Embayment where it seems to pass beneath various Cretaceous deposits draped on Paleozoic strata as well as the Quaternary deposits of the Embayment. Two other broadly separated normal faults form another graben-like structure south of the Cave City Graben. They trend northeast-southwest and extend roughly 16 to 24 miles and are separated by about 3 miles for most of their extent. A few other faults were noted in the region, most notably a portion of another graben trending east-west along the western edge of the study area. The displacement of these faults is unknown but seems to vary from place to place by tens to hundreds of feet.

The geologic units mapped in the area range from the Mississippian age Moorefield to the Ordovician age Everton. Most of the water-producing intervals are in cherty to sandy carbonates. We examined all water well construction reports in the Arkansas Geological Commission files and considered all wells that listed a depth, yield, and location to at least the Section. Other data was compiled from the report if the data was available. In all we found 380 well records that provided this basic information. (It was noted that more than a few water well construction reports failed to list yield or location.) The total depth, yield in gallons per minute (gpm), and location of each well was recorded as well



Geologic Map of the Cave City Area

as the top and base of the producing interval, the static water level, the lithology at the bottom of the hole, and the year the well was drilled if that information was indicated on the water well construction report form (see Appendix). For most of the wells the only location indicated was to the Section. Wells drilled after 1995 had GPS locations, but represented less than 20% of the total. From the database constructed, we plotted the wells on a geologic map of the region and reviewed it for any patterns or trends. The water well database of the area under consideration lacked sufficient locational specificity and spatial density to make any but vary broad brush-stroke analysis.

Results:

The distribution of water yield frequencies is presented in Figure 1. The distribution appeared to be positively skewed and slightly bimodal with three outstanding exceptions: at 5, 10, and 20 gallons per minute (gpm) yields. These anomalous values represent

about 25 percent of the data points. We suspect that these yield values were estimated by the driller rather than measured. Another spike in the data distribution seemed to occur at 15 gpm but it was much smaller than the other distribution spikes. We observed no significant correlation of well yield with depth (Correlation = .19, Figure 2).

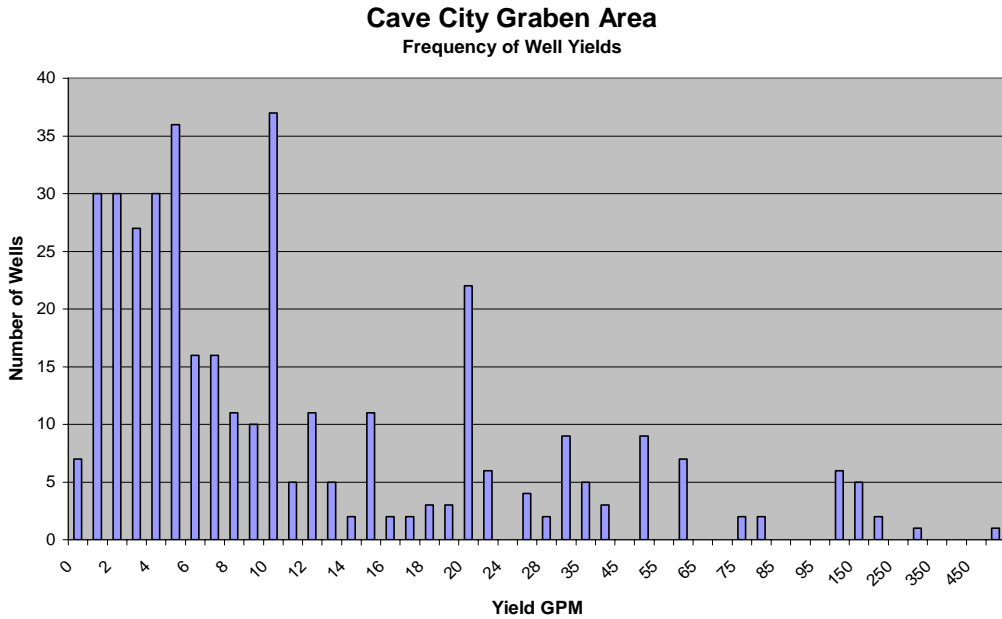


Figure 1. Distribution of water well yields, Cave City Graben area.

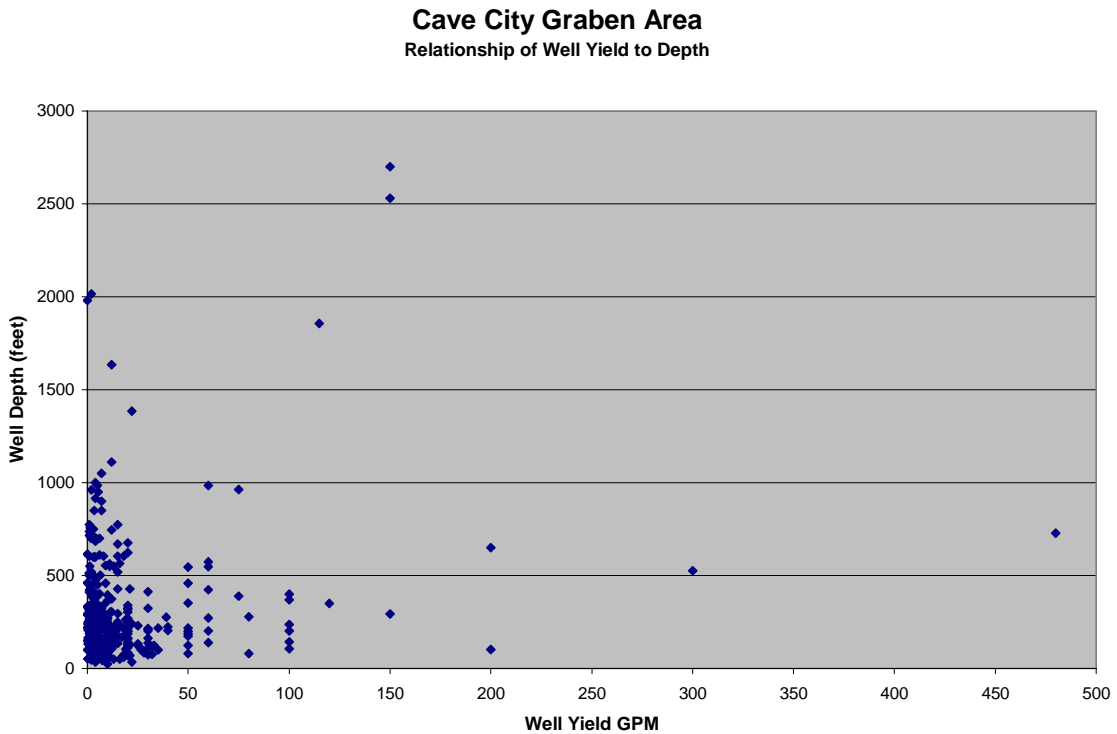


Figure 2. Depth to yield relationship, Cave City Graben Area.

Overall, few wells were dry (7 wells). Wells that were dry or yielded up to 1 gpm were 9.7% of the total (37 wells). Most wells yield less than 30 gpm (86%). Only 10% of the wells in the region yielded over 50 gpm. The overall average yield was 17.82 gpm (sd = 38.38 gpm).

<u>Yield (gpm)</u>	<u># of Wells</u>	<u>% of total</u>
0-4.9	126	33
5-9.9	87	23
10-14.9	60	16
15-29.9	55	14
30-99.9	37	10
>100	14	4

Table 1. The distribution of yields of wells used in this study.

Our original hypothesis was that the Cave City Graben would have some effect on the yields of wells drilled in the area. Studies have shown that in some cases proximity to faults correlates to increased yields on average (Parizek, 1976; Willis, 1978). In other cases, where faults have provided the conduits for hydrothermal solutions or where the fault gouge restricts permeability, the faults have acted as barriers to ground water flow (Eichhubl et al, 2004; Flodin, et al, 2004). In the case of the Cave City Graben it appears that neither of these effects is in play. We saw no relative effect on water yields of wells with relationship to the well's proximity to the structure.

In Section 4, T 15 N, R 3 W near Strawberry, Arkansas, we had 10 wells within the same section. Although we could not ascertain the elevation of the wells the maximum relief across the section is only 100 feet. All of these wells seemed to be producing from the Everton Formation. There is a drape of Cretaceous age materials mapped discontinuously over the section but it would appear that these thin surficial deposits are not the water producer of these wells. Five of the wells were over 400 feet deep, four wells were between 170 and 365 feet deep, and one well was only 70 feet deep. The yields ranged from a dry hole (460 foot well) to one that yielded 300 gpm (526-foot well). Six of the wells yielded 6 gpm or less, three yielded between 10 and 17 gpm. This lack of significant correlation between well yields in a small area as well as a large area suggests that predicting yields based on past experience is limited.

This random distribution of yields in both the region, and even where wells are concentrated, suggests that the water yield of any given well is based more on factors other than direct formational yield via porosity and permeability of the rock the well penetrates. We have no quantified data on the range of variation of the porosity and permeability of the units encountered but outcrop samples do not display a significant variation. The apparent random distribution of wells that yielded over 50 gpm (38 wells, 10%) suggest that all these wells may be influenced by other structural agents such as bedding, joints, and karst piping in the strata sequence to a greater or lesser degree.

One pattern that did present itself was the difference in average yields of wells drilled in the Everton Formation (Ozark Aquifer) vs. the Boone Formation (Springfield Aquifer). We compared two groups of wells from stratigraphically homogenous areas within our study area and that we felt with some degree of confidence were producing from the surface formation. The Everton wells, mostly in the north part of our study area, had an average yield of about 10 gpm (n=71, av=9.886, sd=3.96), whereas Boone wells, mostly south of the Everton wells, yielded about 5 gpm (n=142, av=5.093, sd=2.786). Wells drilled into the Boone averaged about 200 feet deep and Everton wells averaged about 350 feet deep. The overall dataset exhibited no significant correlation of water well yield with depth (correlation = .19); however, there were slightly different, but still insignificant correlations of depths to yields when looking at just the data subsets used in this comparison (Boone depth to yield correlation = .07, Everton depth to yield correlation = .24).

References

Eichhubl, Peter, Taylor, W. Lansing, Pollard, David D., and Aydin, Atilla, 2004, Paleo-fluid flow and deformation in the Aztec Sandstone at the Valley of Fire, Nevada: Geological Society of America Bulletin v. 116, no. 9/10, (Sep/Oct), p. 1120-1136.

Flodin, et al., 2004, "Petrophysical properties and sealing capacity of fault rock from sheared-joint based faults, Aztec Sandstones" in "Fault Seals and petroleum traps": AAPG Memoir (in press).

Parizek, R. R., 1976, Application of fracture traces and lineaments to ground water prospecting: Field Guide to lineaments and fractures in central Pennsylvania for 2nd Int. Conf. on the New Basement Tectonics.

Willis, W. H., 1978, Relationship of photo-lineaments to well yields and ground water chemistry in north central Benton County, Arkansas; unpublished Masters Thesis, University of Arkansas.

Appendix

Cave City Groundwater Study

Water Well Data

<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>TD</u>	<u>Yield</u> (gal/min)	<u>Producing Interval</u>		<u>Static</u> <u>WL</u>	<u>Lith</u> <u>@ TD</u>	<u>Well</u> <u>Date</u>	<u>Notes</u>
							<u>Top</u>	<u>Base</u>				
86	S19,T13N,R4W	5mi N Newark Hwy233			385	2.67	365	385	65	sh	1984	
87	S35,T13N,R4W	3mi SE Sulphur Rock Hwy 69			60	6	45	55	20	sh	1973	
88	S33,T13N,R4W	1mi N Newark, Hwy 122			133	6	80	100		sh	1972	
89	S32,T13N,4W	2mi N Newark: Mt Carmel			118	5	40	45	30	ls	1977	
90	S29,T13N,R4W	2mi N Newark: Mt Carmel			74	10	60	70	20	ls	1975	
91	S25,T13N,R4W	8mi fm Batesville, Hwy25			298	0.5				sh	1971	
92	S17,T13N,R4W	4mi Hwy233 fm Sulphur Rock			348	4	318	340		ls	1972	
93	S14,T13N,R4W	4mi N Newark Hwy 122			100	8	70	100	15	sh	1978	
94	S12,T13N,R4W	2.5mi N Newark			158	1	70	80		ls	1972	
95	S12,T13N,R4W	2mi NE Sulphur Rock: near gravel pits			150	0.67	75	125	60	sh	1976	
96	S12,T13N,R4W	6mi NE Newark Hwy 122			100	5	80	95	40	ss	1976	Cretaceous well?
97	S9,T13N,R4W	7mi NE SulphurRock, Hwy233			90	1.5	60	85	40	sh-ss	1976	Cretaceous well?
98	S36,T13N,R4W	6mi NE Newark Hwy 122			80	10	60	75	30	ss	1974	Cretaceous well?
99	NE,SW,S19,T13N,R4W				80	80	52	69	26	ls	1986	Cretaceous well?
100	S17,T13N,R4W	2mi E SulphurRock Hwy233			130	20	105	130	98	sh	1992	
101	S17,T13N,R4W				70	4	27	35	4	ls	1992	
102	NW,SW,S36,T13N,R4W		35.72	91.48	565	16	521			"granite"	1994	
103	SE,SE,S13,T13N,R4W		35.76	91.36	150	0				ls	1996	
104	NW,NE,S13,T13N,R4W		35.77	91.37	136	10	122		100	sh	1997	
105	NE,NE,S16,T13N,R4W		35.77	91.42	102	200	40	100	10	ls	1997	
106	SE,SE,S13,T13N,R4W		35.76	91.36	88	3	38		38	ls	1997	Cretaceous well?
378	SE,NW,S18,T13N,R4W				330	0				ls	2004	
107	SE,SE,S27,T13N,R5W		35.74	91.51	125	7	78		20	sh	2003	
108	S3,T13N,R5W	3mi NE Batesville			50	4	40	45	20	sh	1976	Batesville Fm call by driller
109	S5,T13N,R5W				250	1	60	70	100	ls	1979	
110	S7,T13N,R5W				125	2	70	85	40	sh	1979	
111	S4,T13N,R5W	5mi E Batesville Hwy25, S 3/4mi			175	2	160	170	60	ss	1980	
112	S1,T13N,R5W	2.5mi N of Sulphur Rock			235	8.3	220	235	170	sh	1983	
113	S24,T13N,R5W	Moorefield			217	10	180	217	35	sh	1983	
114	S32,T13N,R5W				142	3	120	132	40	sh		
115	S27,T13N,R5W				80	10	62	80	12	sh	1992	
116	SE,SE,S28,T13N,R5W		35.73	91.52	120	32	50		50	sh	1996	
117	NW,S28,T13N,R5W	Sulphur Rock 1mi toward Mtn Gap			130	6	85	95	50	sh	1973	
118	SW,SE,SW,S34,T13N,R5W				200	2	32		22	sh	1994	
119	NE,NE,SW,S28,T13N,R5W				84	28	64		49	ss	1994	

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<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>Yield</u>		<u>Producing Interval</u>		<u>Static</u>	<u>Lith</u>	<u>Well</u>	<u>Notes</u>
					<u>TD</u>	<u>(gal/min)</u>	<u>Top</u>	<u>Base</u>	<u>WL</u>	<u>@ TD</u>	<u>Date</u>	
120	SE,SE,S28,T13N,R5W		35.73	91.53	76	32	51		22	ss	1997	
121	SW,NW,NE,S12,T13N,R5W				200	2.5	26		11	sh	1994	
122	SE,NW,NW,S11,T13N,R5W				70	21	28		7	sh	1994	
123	SE,NW,NW,S11,T13N,R5W				75	3	28		9	sh	1994	next door to #122
124	S1,T13N,R5W	4mi N Batesville			90	5	80	90	15	ss	1973	
125	S2,T13N,R5W	3mi N SulphurRock			305	20	229	305	110	ss	1973	
126	S17,T13N,R5W	3mi N SulphurRock			218	5	175	218		ls	1977	
127	S7,T13N,R5W	5mi E Batesville Hwy25			92	3	65	72		sh	1972	
128	S6,T13N,R5W	4mi E Batesville Hwy25			100	8	85	92	5	ss	1973	
129	SW,S6,T13N,R5W	5mi E Batesville Hwy25			100	5	60	80	15	sh	1974	
130	S5,T13N,R5W	3mi E Batesville Hwy25			61	10	50	55	8	ls	1974	
131	S5,T13N,R5W	7mi SE Batesville Hwy25			100	0.8	80	95	30	ss	1976	
132	SW,SW,S18,T13N,R5W		35.75	91.57	550	1.25	198		105	ls	1993	
133	S6,T13N,R5W	3mi NE Batesville Hwy25			75	5	65	75	30	ss	1974	
134	S7,T13N,R5W	1mi E Dairy Hwy25			43	7.5	35	43	15	sh	1976	
135	S6,T13N,R5W				83	5	60	83	10	sh	1976	
136	S6,T13N,R5W	5mi E Batesville Hwy25			80	5	60	80	30	sh	1978	
137	S5,T13N,R5W	5mi E Batesville Hwy25, S.25mi			250	3	220	250	100	sh	1976	
138	S11,T13N,R5W	2mi NE SulphurRock			84	5	65	84	70	ss	1975	lost water to sand unit @ 40'
139	S10,T13N,R5W	2mi NW SulphurRock			150	3	95	145	110	sh-ss	1977	lost water to sand unit @ 145'
140	S7,T13N,R5W	7mi NE Batesville,.5mi W Simpson's Store			24	10	14	18	12	ls	1979	
141	S10,T13N,T5W	3mi N SulphurRock			110	4	65	75	30	ls	1974	
142	S9,T13N,T5W	2.5mi NW SulphurRock			215	10	200	215	170	sh ls?	1977	
143	S8,T13N,R5W	1mi SW Gainsboro			138	7	130	138	30	sh	1977	
144	SE,SE,S15,T13N,R5W				473	4	443	460	85	ls	1991	
145	S3,T13N,R5W	8mi NE Batesville			350	4.5	245	350	23	ls	1975	
146	S4,T13N,R5W				444	1.5	400	420		ls	1972	
147	S21,T13N,R5W	1.5mi NE SulphurRock			101	3	60	70	20	sh	1978	
148	S14,T13N,R5W	2mi W Bethesda			132	10	80	110	8	ss	1978	
149	S14,T13N,R5W	.7mi W Bethesda			50	10	40	50	10	sh	1978	
150	SE,SE,S8,T13N,R5W		35.74	91.64	100	9	50		25	sh	1998	
151	S16,T13N,R5W	1mi E Moorefield			219	0				ls	1972	
152	NE,SW,S16,T13N,R5W		35.77	91.54	404	4	110		80	ls	2002	
153	S24,T13N,R5W	2mi E SulphurRock			73	10	52	73	30	ss?	1975	sand & gravel below sh?
376	NW,SW,S21,T13N,R5W		35.75	91.54	200	20	21	85	0	gray rk	2004	artesian

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					<u>TD</u>	<u>(gal/min)</u>	<u>Top</u>	<u>Base</u>	<u>WL</u>	<u>@ TD</u>	<u>Date</u>	
154	SW,NE,S18,T13N,R6W				250	4	63		8	sh	1995	
155	NW,NW,S30,T13N,R6W		35.73	91.64	50	16	40		21	ss	1999	
156	S32,T13N,R6W	2mi SE Batesville			318	0.75				sh	1980	
157	S2,T13N,R6W	1mi E Phiffer			133	4	120	133		ls	1972	
158	S3,T13N,R6W	2mi E Batesville			410	1	60	70		ls	1973	
159	NE,SE,S1,T13N,R6W		35.7	91.59	100	35	40		11	sh	1998	
160	NE,SE,S1,T13N,R6W		35.68	91.59	114	2	42		18	sh	1999	
161	SW,NW,S33,T13N,R6W		35.72	91.64	75	18	37		9	ss	1999	
162	SW,NE,S4,T13N,R6W		35.8	91.64	205	1	69		100	ls	2002	
163	SE,SE,S2,T13N,R6W		35.79	91.61	2015	2	1300	1400	20	ls	1998	
164	S1,T13N,R6W	3mi E Batesville			100	5	70	80	30	sh	1973	
165	S10,T13N,R6W	2mi NE Batesville			55	10	40	55	15	sh,ss	1977	
166	S35,T13N,R6W	.5mi SE Batesville			115	2	85	110	50	ss,sh	1973	
167	S24,T13N,R6W	1.5mi S Moorefield			74	10	65	70	40	ls,sh	1973	
168	NE,S20,T13N,R6W				35	22	33			ls	1995	
169	S32,T13N,R6W				100	10	60	90	20	ss	1981	
170	S31,T13N,R6W				100	26.7	70	100	40	sh	1980	
171	S1,T13N,R6W				80	7.5	70	80	20	sh	1980	
172	SW,NW,S35,T13N,R6W				106	12	44		21	sh	1994	
173	S26,T13N,R6W				80	8	60	70	30	sh	1978	
174	S1,T13N,R6W				125	5	100	110	50	sh	1977	
175	S11,T13N,R6W				205	4	0	190	205	sh	1983	
176	S24,T13N,R6W				230	7	180	205	26	sh,ls	1984	
177	S1,T13N,R6W				70	10	40	70	30	sh	1974	
178	S1,T13N,R6W	4mi NE Batesville			72	6	28	40		sh	1972	
179	S1,T13N,R6W				100	10	70	80	30	sh	1977	
180	S12,T13N,R6W	3mi NE Batesville			50	13	28	50	0	ls	1975	artesian
181	S33,T13N,R6W	3mi S Hwy167			100	10	60	75		sh	1975	
182	S34,T13N,R6W	3mi S Batesville			100	5	60	70	30	sh	1975	
183	S2,T13N,R6W	2mi E Batesville			137	5	125	137	50	sh	1975	
184	S2,T13N,R6W	3mi E Batesville			75	8	60	75	20	sh	1976	
185	SE,NW,S7,T13N,R6W		35.79	91.68	605	1	360		400	ls	2004	
186	S36,T14N,R3W				250	2.5	130	150	30	ls	1979	
187	S15,T14N,R3W	at Dawdy			215	20	195	215		sh	1971	
188	S31,T14N,R3W	in Cord			144	20	140	144		ls	1972	

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<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>TD</u>	<u>Yield</u> (gal/min)	<u>Producing Interval</u>		<u>Static</u> <u>WL</u>	<u>Lith</u> <u>@ TD</u>	<u>Well</u> <u>Date</u>	<u>Notes</u>
							<u>Top</u>	<u>Base</u>				
189	S5,T14N,R3W	1mi E Dowdy			196	2	110	119		ls	1973	
190	S18,T14N,R3W				270	20	250	270	100	ls	1980	
191	S31,T14N,R3W	Cord			604	8	560	604		ss/ls	1980	
192	S17,T14N,R3W	3mi N Cord			115	5	90	115		ls	1973	
193	S18,T14N,R4W	1mi E Antioch Ch			151	4	80	90		ls	1973	
194	S21,T14N,R4W	1mi E Charlotte			324	30	310	324	40	ss	1976	Limestone/chert 290' above
195	S26,T14N,R4W	1.5mi S Walnut Grove			71	8.5	60	70	20	sdv sh	1975	
196	S23,T14N,R4W	3mi E Charlotte			157	2	130	140		ls	1971	
197	S24,T14N,R4W	4mi E Charlotte			70	20	60	70		ls	1971	karst
198	S25,T14N,R4W	4mi SE Charlotte			102	5	80	102		ls	1971	
199	S31,T14N,R4W				106	12	90	106	26	sh ls	1984	
200	NE,SW,S6,T14N,R4W				60	18	36		22	ss	1989	
201	S36,T14N,R4W	4mi NW Cord			125	1	110	120	55	ls	1974	
202	S8,T14N,R4W	3mi N Charlotte			345	5	320	345		ss	1976	white sandstone \ limestone
203	NW,SW,S29,T14N,R4W		35.82	91.44	554	9	84	250	90	ls	2003	
204	NE,SE,S12,T14N,R4W		35.87	91.36	514	1	380		35	ls	2003	
205	S28,T14N,R5W				255	5	230	255	70	ss	1981	
206	S28,T14N,R5W				135	2			60	ss	1982	
207	S17,T14N,R5W				370	100	360	370	20	ls	1984	karst void at depth
208	S29,T14N,R5W				240	10	230	240	60	ss	1981	
209	S28,T14N,R5W				100	4	70	100	20	sh	1982	
210	S29,T14N,R5W				85	20	75	85	15	sh	1982	
211	S26,T14N,R5W	5mi NW Charlotte			45	2	35	40	15	sh	1975	
212	S21,T14N,R5W	4mi E Pfeiffer			260	2	240	260	70	sh	1974	
213	S22,T14N,R5W	2.5mi N Simpson Store			83	5	65	70		ls	1974	
214	S25,T14N,R5W	7mi E Pfeiffer			52	0.25	40	45	10	ls	1975	
215	S29,T14N,R5W	3mi E Pfeiffer			70	6	50	70		sh	1977	
216	S30,T14N,R5W	2mi E Pfeiffer			150	2.75	40	135	20	ss	1975	
217	S30,T14N,R5W	1mi N Simpson Store			175	3	160	175	20	sh	1978	
218	S32,T14N,R5W	5mi E Batesville			205	3	190	205	100	sh	1974	
219	NE, S32,T14N,R5W	5mi E Batesville			168	6	150	160	110	ls	1973	
220	S33,T14N,R5W				250	0.5	100	110		ls	1972	
221	S33,T14N,R5W	7mi E Batesville			120	2	100	120	30	sh ls	1974	

Appendix

Cave City Groundwater Study

Water Well Data

Well ID	Location	Description	Lat.	Long.	Yield TD (gal/min)	Producing Interval		Static WL	Lith @ TD	Well Date	Notes	
						Top	Base					
222	S35,T14N,R5W	1mi S Pfeiffer			140	10	110	120	30	ss	1975	
223	S13,T14N,R5W	near Antioch Rd			143	8	130	135		ls	1978	
224	S36,T14N,R5W	2mi W Charlotte			100	5	70	100	50	chert	1976	
225	SW,NW,S13,T14N,R5W				203	30	146	190	53	ls	1991	
226	SW,SE,T14N,R5W				145	7	132		11	sh	1997	
227	S17,T14N,R5W	2mi N Pfeiffer			100	6	60	80		blue chert	1975	below chert & black shale
228	S17,T14N,R5W	2mi N Pfeiffer			115	5	90	115	40	sh	1974	
229	S17,T14N,R5W	3mi N Pfeiffer			95	6	60	75	30	bk sh	1974	
230	S17,T14N,R5W	3mi N Pfeiffer			80	5	60	80	20	chert	1976	flint
231	S21,T14N,R5W				144	4	140	144	41	bk ls	1976	
232	S14,T14N,R5W	1mi SE Antioch Ch			150	12.5	100	145	10	ss	1975	
233	S25,T14N,R5W	1mi NW Charlotte			56	4	18	36	12	bk ls	1977	
234	S23,T14N,R5W				150	1	20	130	4	sh	1975	
235	SE,NW,S8,T14N,R5W				143	100			55	ls	1990	
236	S31,T14N,R5W	1.5mi E Antioch Ch			88	1.5	60	88	25	sh	1973	
237	S31,T14N,R5W				298	2	100	110		ls	1973	
238	S10,T14N,R5W				100	1.25	60	90	15	ss	1974	
239	S7,T14N,R5W				101	4	55	101	20	ls	1975	
240	S5,T14N,R5W	3mi S CaveCity			110	5	100	110	50	chert	1976	
241	S11,T14N,R5W	8mi N Batesville			749	3				ls	1971	
242	S11,T14N,R5W		35.87	91.49	345	2	120		10	ls	2001	
243	S11,T14N,R5W		35.87	91.49	685	4	120	460	30	ls	2001	
244	SE,SE,S16,T14N,R5W		35.85	91.52	276	39.2	34	175	60	ls	2002	
245	S21,T14N,R6W	2mi west Pfeiffer			455	3.3	430	431	60	ls	1985	
246	S27,T14N,R6W	2mi west Pfeiffer			206	0.5	100	110	90	ls	1983	
247	S15,T14N,R6W	Pfeiffer			102	4	90	102	40	ls	1985	
248	S19,T14N,R6W				100	0				ls	1974	
249	S19,T14N,R6W				290	0				ls	1974	
250	NW,SW,S27,T14N,R6W		35.83	91.64	599	3.2	559	579	100	ss	1999	
251	SE,SE,S35,T14N,R6W		35.81	91.6	513	1.75	65		0	ls, sh	1998	
252	S17,T14N,R6W				126	20	100	127	20	sd	1974	
253	S26,T14N,R6W				166	0.5			70	ls	1989	
254	S35,T14N,R6W	2mi NE Batesville			700	2			180	sh,ss	1980	
255	SW,S26,T14N,R6W				270	2	165	260		do,ls,ss,ch	1977	
256	NE,NE,S3,T14N,R6W				308	4	260	290	55	ls	1990	

Appendix

Cave City Groundwater Study

Water Well Data

Well ID	Location	Description	Lat.	Long.	TD	Yield		Producing Interval		Static WL	Lith @ TD	Well Date	Notes
						(gal/min)		Top	Base				
257	S25,T14N,R6W				265	10		230	245	90	ss	1975	
258	S23,T14N,R6W				90	5		50	85	12	ss	1976	
259	S24,T14N,R6W				90	4		60	85	30	ss	1975	
260	S36,T14N,R6W				298	5		250	260		sh	1972	
261	S36,T14N,R6W				235	10		200	235	60	sh	1977	
262	S12,T14N,R6W				216	30		140	145		ls	1971	
263	S36,T14N,R6W				250	4		240	250	115	ls, sh	1975	location ??
264	SW,SW,S18,T14N,R6W		35.16	91.68	270	7		170	260	50	ss,ls	2001	
265	NE,NW,S13,T14N,R6W		35.86	91.59	265	1		140		100	ls	2002	
266	SW,SW,S34,T14N,R6W		35.81	91.62	305	12		265			ls	2003	
267	SE,SE,S14,T14N,R6W		35.85	91.6	775	15		750	765	250	ss	2004	
61	S23,T15N,R3W	.5mi NE Saffell			80	50		10	80	10	ls	1977	
62	S4,T15N,R3W	100yds E Strawberry			526	300		523		50	ls	1975	
63	S35,T15N,R3W	2mi S Saffell: 1.5mi S on Hwy25, L .5mi			500	3		270	475	79	ls	1974	
64	S4,T15N,R3W	.5mi NW Strawberry			460	0		dry	hole			1972	
65	S4,T15N,R3W	.24mi NE Strawberry			402	6		28	402	28	ls	1972	
66	S4,T15N,R3W	4mi SE Strawberry			70	10		4	70	4	ls	1973	
67	S5,T15N,R3W	Strawberry			245	20		235	245		ls	1971	
68	S6,T15N,R3W	11mi E CaveCity: near Hwy 230			176	12		150	160		ss	1974	
69	S15,T15N,R3W	.25mi SE Strawberry			275	10		56	275	56	ls	1971	
70	S16,T15N,R3W	2mi S Strawberry			92	3		60	70		ls	1971	
71	S4,T15N,R3W	.5mi NE Saffell			170	17		65	170	65	rk	1972	
72	S4,T15N,R3W	.5mi NW Strawberry			460	3		48	460	48	ls	1972	
73	S4,T15N,R3W	1.5mi SE Saffell Hwy25			365	10		48	365	48	ls	1973	
74	SE,S20,T15N,R3W	2mi W Saffell			197	5		185	190	30	ls	1974	
75	S30,T15N,R3W	3.5mi W Strawberry			242	22		242		13	ls	1973	
76	S4,T15N,R3W	4mi NE Saffell			263	5		50	263	50	ls	1973	
77	S4,T15N,R3W	.25mi N Strawberry			422	1		40	422	40	ls	1974	
78	S4,T15N,R3W	.25 SE Strawberry			288	4		28	288	28	ls	1972	
79	SW,NE,S27,T15N,R3W		35.91	91.27	960	2		240		160	ls	1997	
80	SW,NE,S27,T15N,R3W		35.91	91.3	676	20		670		25	ls	1997	
81	NW,NE,S35,T15N,R3W				1050	7		800	900	30	ls	1991	
82	NE,SW,S9,T15N,R3W		35.95	91.31	293	150		285	290	15	ls	1997	
83	SE,SW,S9,T15N,R3W		35.95	91.31	188	50		130	175	25	ls	1997	
84	NW,SW,S16,T15N,R3W		35.94	91.32	218	50		155	175	42	ls	2003	

Appendix

Cave City Groundwater Study

Water Well Data

<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>TD</u>	<u>Yield</u> (gal/min)	<u>Producing Interval</u>		<u>Static</u> <u>WL</u>	<u>Lith</u> <u>@ TD</u>	<u>Well</u> <u>Date</u>	<u>Notes</u>
							<u>Top</u>	<u>Base</u>				
85	NE,NW,S16,T15N,R3W		35.95	91.31	670	15	119	653	40	ls	2003	
1	S3,T15N,R4W	2.5 mi on Hwy 115 fm Calmine			545	50	535	545 -		ls	1973	
2	S17,T15N,R4W	1.5mi fm Grange			308	6	275	300	71	ls	1974	
3	S17,T15N,R4W	1.5mi S Grange			68	7	56	68	23	ls	1974	
4	S8T15N,R4W	9mi NE CaveCity			150	6	100	105		ls	1971	
5	S12,T15N,R4W	3mi W Strawberry Hwy 230 road side			111	11	96	97	36	ls	1975	
6	SW,NE,S14,T15N,R4W				110	30	107	110	65	ls	1990	
7	SW,SE,SE,S23,T15N,R4W		36.98	91.4	125	33	100	118	24	ls	1994	
8	S29,T15N,R4W	7mi E CaveCity Hwy 230			140	60	140	140	100	ls	1974	
9	S25,T15N,R4W	2.5mi N Strawberry on Hwy 230			114	10	48	114	48	ss	1977	
10	S17,T15N,R4W	6mi E CaveCity			400	3	330	380		ls	1975	
11	S16,T15N,R4W	9mi E CaveCity on Hwy 230, 1000' N Rt 1			125	8	113	124	59	ls	1973	
12	S2,T15N,R4W	2.75mi W Strawberry on Hwy 230, R 1.25mi			225	11	126	225	18	ls	1973	
13	S29,T15N,R4W	6mi E CaveCity on Hwy 230, R 1.5mi SE			150	10	95	115	66	ls	1973	
14	SW,SW,S11,T15N,R5W		35.97	91.5	520	2	360		120	ls, ss	1999	
15	SW,NE,S18,T15N,R5W				188	10	180	185	70	ls, ss	1991	
16	SW,NE,S6,T15N,R5W				729	480	445	718	42	ls, ss-k	1994	
17	NE,NE,S5,T15N,R5W				160	20	150	155	80	ss	1987	
18	NW,SE,S19,T15N,R5W				548	60	540	545	30	ls	1992	
19	S18,T15N,R5W	1.75mi NW CaveCity			250	10	170	250	90	ls-k	1973	
20	S6,T15N,R5W	6mi NE CaveCity Hwy 167			136	3	120	125		ls	1971	
21	S12,T15N,R5W	6mi NE CaveCity			550	11	510	550	93	ls	1974	
22	S31,T15N,R5W	2mi NW CaveCity			190	1.5	150	180	30	ls	1974	
23	S12,T15N,R5W	6mi NE CaveCity			550	13	177	550	46	ls	1974	
24	S15,T15N,R5W	2mi S CaveCity			265	2	115	120		ls	1971	
25	S18,T15N,R5W	.75mi W CaveCity			305	11.5	150	290	95	ss, ls	1973	
26	S12,T15N,R5W	4mi NE CaveCity			75	8	74	75	26	ss	1973	
27	S6,T15N,R5W	2.5mi N CaveCity: on Hwy 167			390	75	390		30	ls	1973	
28	S6,T15N,R5W	2mi N CaveCity: .25mi W off Hwy 167			115	10	115		55	chert	1973	
29	S18,T15N,R5W	1mi W CaveCity			312	4	305	312		ss	1973	
30	S8,T15N,R5W	7mi NW CaveCity			55	10	35	52	8	ls	1977	
31	S14,T15N,R5W	3mi E CaveCity			117	12	100	117			1972	
32	S34,T15N,R5W	3mi E CaveCity			256	6	236	256		gravel	1972	

Appendix

Cave City Groundwater Study

Water Well Data

<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>TD</u>	<u>Yield</u> (gal/min)	<u>Producing Interval</u>		<u>Static</u> <u>WL</u>	<u>Lith</u> <u>@ TD</u>	<u>Well</u> <u>Date</u>	<u>Notes</u>
							<u>Top</u>	<u>Base</u>				
33	S2,T15N,R5W	3.25mi E CaveCity			105	19	104	105	51	ls	1975	
34	S15,T15N,R5W	2mi E CaveCity: Hwy 230			300	3.5	165	300	11	ls	1975	
35	S33.T15N.R5W	1mi E CaveCity Hwy115, N 2mi Wilson Well Rd			225	13	113	225	96	ss	1975	
36	S14,T15N,R5W	3mi N? CaveCity Hwy 167			322	1	90	95		ls	1973	
37	S6,T15N,R5W	1.5mi N CaveCity Hwy 167			700	2	425		100	ls	1973	
38	S9,T15N,R5W	Martin Ck Rd 4mi			203	6	183	195	31	ls	1981	
39	S4,T15N,R5W	1mi W CaveCity			110	7	60	110	30	ss	1974	
40	S3,T15N,R5W	.75mi W CaveCity			150	5	95	135	60	ss	1974	
41	S7,T15N,R4W	.5mi N CaveCity			133	0.5	110	115		ss	1974	
42	S8,T15N,R5W	.25 N CaveCity			338	0.5	60	65		ss	1974	
43	S2,T15N,R5W	3.5mi E CaveCity: Hwy 115 E 3.25mi, R .25mi			163	30	162	163	41	ss-k	1974	
44	S2,T15N,R5W	2.5mi E CaveCity Hwy 115, R 1.5mi			125	50	114	125	57	ls	1974	
45	S14,T15N,R5W				513	1	170	180	30	ls	1981	
379	NE,NE,S9,T15N,R5W		35.97	91.52	2531	150	1580	2390	80	ds	2005	
380	SW,SW,S16,T15N,R5W		35.94	91.53	1980	0				ds	2005	
46	S1,T15N,R6W	4mi NW CaveCity: 3mi NW Hwy 167, L 1mi			395	10	390	395		ls	1977	
47	S17,T15N,R6W	4mi W CaveCity: 3mi W, L 1.5mi			35	4	30	38	10	ss	1975	
48	S16,T15N,R6W	3mi W CaveCity: 3mi W, L .5mi			60	10	55	60	25	gravel	1975	
49	S7,T15N,R6W	5mi SE Sidney			155	10	65	140	27	ls	1977	
50	S2,T15N,R6W	5.5mi NW CaveCity: 2mi N Hwy 167, W 3mi			132	25	131	132	51	ls	1978	
51	S19,T15N,R6W	1mi W CaveCity			300	5	190	196	75	ss	1979	
52	S11,T15N,R6W	6mi W CaveCity			98	10	92	98		ls	1972	
53	S12,T15N,R6W	2mi NE CaveCity			236	15	216	225		ls	1973	
54	S9,T15N,R6W	5mi W CaveCity			80	5	60	70	40	ls	1973	
55	S6.T15N,R6W	4mi SW Sidney			150	10	120	150	55	ls-ss	1973	
56	NW,NE,S2,T15N,R6W				745	12	698	720	30	ls	1990	
57	S1,T15N,R6W	3mi NW CaveCity			916	4	900	902	80	ls	1982	
58	S32,T15N,R6W	on Hwy 58 leaving Sidney			200	50	195	200	40	ls	1982	
59	S36,T15N,R6W	1.5mi W Sidney			700	6	195	225		ls	1971	
60	S13,T15N,R6W	2mi W of Hwy 167			323	7	285	315	108	ls	1981	
268	S23,T16N,R3W	3mi SW Smithville			245	5			35	ls	1976	
269	S17,T16N,R3W	1mi N Jessup			240	0.17	225	230	40	ls	1972	
270	S15,T16N,R3W	3.25mi NW Lynn			375	12	373	375	81	ls	1973	

Appendix

Cave City Groundwater Study

Water Well Data

Well ID	Location	Description	Lat.	Long.	Yield		Producing Interval		Static	Lith	Well	Notes
					TD	(gal/min)	Top	Base	WL	@ TD	Date	
271	S15,T16N,R3W	2.9mi NW Lynn			200	5	70	190	36	ls	1973	
272	S7,T16N,R3W	7.5mi NW Jessup			700	3	560		44	ls	1973	
273	S10,T16N,R3W	2mi S Smithville			520	15	510	520	120	ls	1972	
274	S13,T16N,R3W	2mi NE Lynn			650	200	649	650	88	ls	1975	is yield for hour?
275	S3,T16N,R3W	2.5mi SE Smithville			775	1	460	765	30	ls	1973	
276	S322,T16N,R3W	2.25mi W Lynn			200	14	192	197	40	ls	1973	
277	S31,T16N,R3W	3mi NW Strawberry			271	60	270	271	20	ls	1973	yield?
278	S13,T16N,R3W	1mi N Lynn			340	20	337	340		ls	1974	
279	S19,T16N,R3W	1mi W Jesup			200	2	166	167	39	ls	1975	
280	NE,NE,S16,T16N,R3W				218	35	190	200	12	ls	1991	
281	SE,NE,S18,T16N,R3W		36.06	91.34	605	15	480	560	80	ls	2000	
282	SW,NE,S18,T16N,R3W		36.05	91.34	985	5	481		300	ls	2000	
283	SE,NE,S18,T16N,R3W		36.06	91.34	605	18	175	540	50	ls	2000	
284	SE,NW,S25,T16N,R3W		36	91.26	625	20	550	610	220	ls	2004	
285	S5,T16N,R4W				190	1	170	171	40	ls	1985	
286	S34,T16N,R4W				225	17	191	225	27	ls	1974	
287	S32,T16N,R4W				350	120	348	350	93	ls	1975	? Yield
288	S22,T16N,R4W				736	1	600	650		ls	1973	
289	S27,T16N,R4W				70	10	45	50		ls	1975	
290	S34,T16N,R4W				205	40	182	205	23	ss	1974	cave
291	S20,T16N,R4W	3mi W Calamine			400	3	355	400		ls	1973	
292	S20,T16N,R4W				378	3	280	285		ls	1971	
293	S11,T16N,R4W	3.25mi NE Calamine			200	4	119	200	36	ls	1975	
294	S19,T16N,R4W	3.25mi W Calamine			200	20	181	186	57	ls	1975	
295	S10,T16N,R4W	3mi NE Calamine			616	0.05	230	246		ls	1973	
296	S31,T16N,R4W	2.5mi NW Grabge			700	4.5	365	690	60	ls	1974	
297	S31,T16N,R4W				200	13	187	200	46	(ls)	1974	cave
298	S13,T16N,R4W	1mi W Jusup			100	11	95	100	42	ls	1973	cave
299	SE,SW,S34,T16N,R4W		35.98	91.4	225	40	220		40	ls	1996	
300	NE,SW,S1,T16N,R4W				75	30	70	75	50	ls	1990	
301	NW,NE,S4,T16N,R4W				188	20	150	180	80	ls	1990	
302	SW,SW,S20,T16N,R4W				390	5	385		20	ls	2001	
303	SW,SW,S29,T16N,R4W		35.01	91.43	1856	115	1675		105	ds	1992	
304	NW,NW,S6,T16N,R4W				218	15	196	205	4	ls	1991	
305	SE,SW,S12,T16N,R4W				850	7	300	760	3	ls	1992	

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Cave City Groundwater Study

Water Well Data

<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>TD</u>	<u>Yield</u>		<u>Producing Interval</u>		<u>Static WL</u>	<u>Lith @ TD</u>	<u>Well Date</u>	<u>Notes</u>
						<u>(gal/min)</u>	<u>Top</u>	<u>Base</u>					
306	NW,NE,S6,T16N,R4W				323	20	305	317	65	ls	1991		
307	SE,SE,S3,T16N,R4W				134	15	122	128	80	ls	1992		
308	NW,NE,S29,T16N,R4W				353	9	290	325	39	ls	1992		
309	SE,NE,S12,T16N,R4W		35.05	91.36	278	80	145	255	40	ls	2000		
310	SE,NE,S9,T16N,R4W		36.05	91.41	113	26	80	110	7	ls	1996		
311	NW,NW,S15,T16N,R4W		36.04	91.4	173	14	155	170	62	ls	1996		
312	SW,SW,S10,T16N,R4W		36.04	91.4	715	1	535	600	70	ls	1996		
313	SE,NE,S15,T16N,R4W		36.03	91.39	1385	22	1325	1365	82	ls	1996		
314	SE,SE,S9,T16N,R4W		36.04	91.41	203	9	95	110	13	ls	1996		
315	SW,NE,S21,T16N,R4W		36.02	91.41	1635	12	925	1621	46	ls	2002		
316	SE,SW,S32,T16N,R4W		35.82	91.44	575	60	60	450	7	ls	2003		
317	NW,NE,S11,T16N,R4W		36.05	91.38	563	11	256	537	95	ls	2002		
318	SW,NW,S9,T16N,R4W		36.05	91.42	173	50	169	170	70	ls	1997		
319	NE,NW,S7,T16N,R4W		36.05	91.45	757	1.5	340		160	ls	2004		
320	SW,SW,S10,T16N,R4W		36.04	91.41	263	9	220	250	115	ls	1997		
321	SE,NW,S1,T16N,R4W		36.06	91.36	413	2.5	300	400	59	ls	1997		
377	NW,SW,S16,T16N,R4W		36.03	91.43	450	5	300	425	75	ls	2004		
322	S6,T16N,R5W				290	9	272	280	60	ls	1985		
323	S19,T16N,R5W				203	100	188	200	85	ls	1984		
324	S3,T16N,R5W				950	5.5	930	940	100	ls	1979		
325	SW,NW,S15,T16N,R5W		36.02	91.5	146	10	113		ls,red clay		1995		
326	SW,NE,S20,T16N,R5W				203	60	202	203	65	ls	1995		
327	SW,SW,S5,T16N,R5W		36.06	91.55	320	20	318		30	ls	2001	yield may be gph	
328	SW,NE,S24,T16N,R5W				458	50	415	458	0	ls	1988		
329	NW,NE,S18,T16N,R5W				1110	12	1050	1078	50	ls	1991		
330	NE,NE,S15,T16N,R5W				353	50	340	350	22	ls	1990		
331	NW,NE,S7,T16N,R5W		36.05	91.57	65	7	44			ls	1993		
332	S31,T16N,R5W	2mi N Cave City			600	3	540	600	111	ls	1975		
333	S30,T16N,R5W	3.25mi N Cave City			163	20	146	163	80	(ss)	1973		
334	SE,NE,S14,T16N,R5W		36.04	91.48	165	6.5	164		90	ls	2002		
335	S30,T16N,R5W				113	20	112	113	15	ss	1973	initial production 100gpm	
336	S31,T16N,R5W	3mi N Cave City			900	7	600	900	79	ls	1974		
337	S31,T16N,R5W				128	21	124	125	32	ss	1974		
338	SE,SW,S29,T16N,R5W		36	91.54	599	4	559	579	45	ls	2003		
339	S31,T16N,R5W				173	15	54	170	47	ss,ls	1975		

Appendix

Cave City Groundwater Study

Water Well Data

<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>Yield</u>		<u>Producing Interval</u>		<u>Static</u>	<u>Lith</u>	<u>Well</u>	<u>Notes</u>
					<u>TD</u>	<u>(gal/min)</u>	<u>Top</u>	<u>Base</u>	<u>WL</u>	<u>@ TD</u>	<u>Date</u>	
340	S31,T16N,R5W				128	20	41	120	39	ss,ls	1975	
341	S31,T16N,R5W				107	100	106	107	22	ls	1975	
342	S31,T16N,R5W				250	7	165	250	67	ls	1975	
343	S1,T16N,R5W				205	19	113	196	22	ls	1975	
344	S11,T16N,R5W				296	15	278	282		ls	1972	
345	S25,T16N,R5W				136	30	128	130		ls	1972	
346	NW,NW,S3,T16N,R5W		36.07	91.51	425	60	90	418	40	red clay	2002	
347	S1,T16N,R5W	Poughkeepsie			230	25	220	230	90	ls	1977	
348	S1,T16N,R5W				428	15	425	427	53	ls	1973	
349	S36,T16N,R5W				300	3	155	300	62	ls	1975	
350	S21,T16N,R5W				277	3	190	225		ls	1971	
351	S25,T16N,R5W				436	2	428	429		ls	1972	
352	S14,T16N,R6W				128	12	88	108	65	ls	1980	
353	S9,T16N,R6W				236	100	172	176	110	ls	1980	
354	S3,T16N,R6W				458	9	420	448	80	ls	1982	
355	S27,T16N,R6W	2mi E Sidney			1000	4	850	900		ls	1971	
356	S14,T16N,R6W				711	3	280	290		ls	1971	
357	S4,T16N,R6W				850	3.5	735	850		ls	1975	
358	S24,T16N,R6W				210	30	195	210		ls	1971	
359	S25,T16N,R6W				500	1	130	135		ls	1971	
360	S9,T16N,R6W				165	7	164	165	158	ls	1972	below surface ?
361	S14,T16N,R6W				300	8	263	300	66	ls	1975	
362	S14,T16N,R6W				428	21	427	428	70	ls	1975	
363	NE,NW,S18,T16N,R6W		36.04	91.67	120	20	115		35	ss	1997	
364	NE,SE,S23,T16N,T6W		36.03	91.59	245	9	165		60	ls	1999	
365	NW,SW,S8,T16N,R6W				963	75	960	963	90	ls	1994	
366	SE,NW,S8,T16N,R6W				610	6	540	600	78	ls	1994	
367	NW,SW,S5,T16N,R6W		36.06	91.65	263	19	216	245	80	ls	1997	
368	SE,NW,S8,T16N,R6W				503	6.5	470	495	85	ls	1994	
369	NW,NW,S18,T16N,R6W		36.04	91.68	985	60	950	985	87	ls	1996	
370	SW,NW,S8,T16N,R6W				413	30	395	402	95	ls	1992	
371	NW,NW,S34,T16N,R6W				2700	150			142	sunther	1992	
372	NW,SE,S14,T16N,R6W		36.05	91.6	505	1	250		90	ls	2002	
373	SW,SW,S2,T16N,R6W		36.06	91.6	250	15	200	240	120	ls	2004	
374	SE,NE,S9,T16N,R6W		36.05	91.63	125	25	120		20	ls, ss	2002	

Appendix
Cave City Groundwater Study
Water Well Data

<u>Well ID</u>	<u>Location</u>	<u>Description</u>	<u>Lat.</u>	<u>Long.</u>	<u>TD</u>	<u>Yield</u> (gal/min)	<u>Producing Interval</u>		<u>Static</u>	<u>Lith</u>	<u>Well</u>	<u>Notes</u>
							<u>Top</u>	<u>Base</u>	<u>WL</u>	<u>@ TD</u>	<u>Date</u>	
375	SW,SE,S26,T16N,R6W		36	91.43	400	100	375		30	ls	2004	