Department of the Interior
United States Geological Survey

Prepared in cooperation with the
Mississippi Board of Water Commissioners
Jack W. Pepper, Water Engineer

WATER-RESOURCES INVESTIGATIONS 77-17
SHEET 2 OF 3 OPEN-FILE REPORT

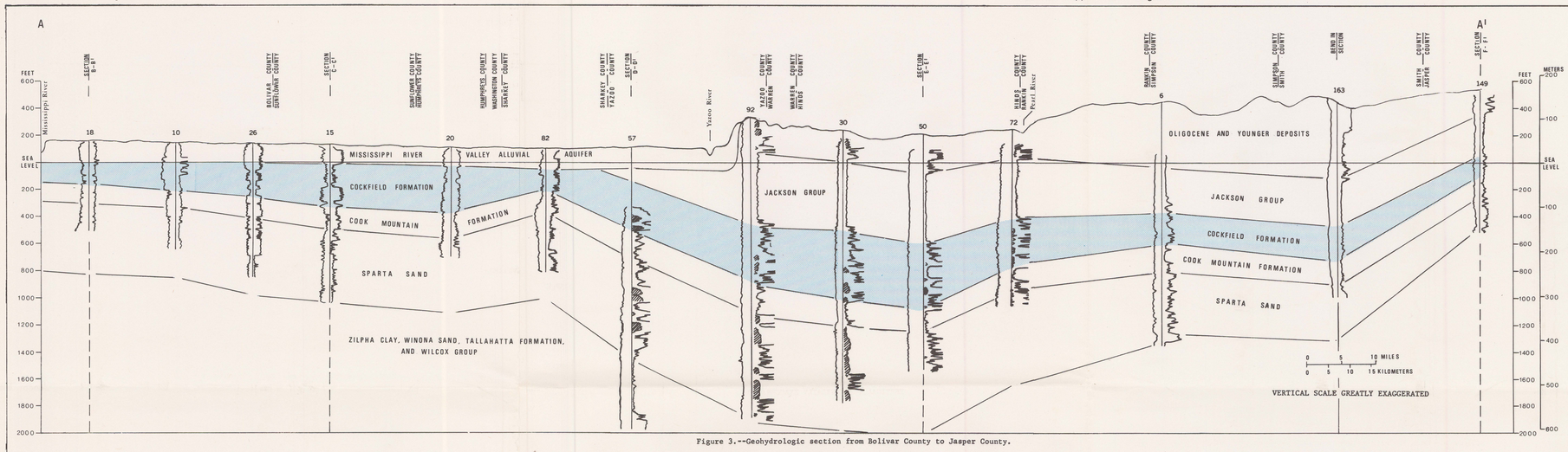

Figure 3.--Geohydrologic section from Bolivar County to Jasper County.

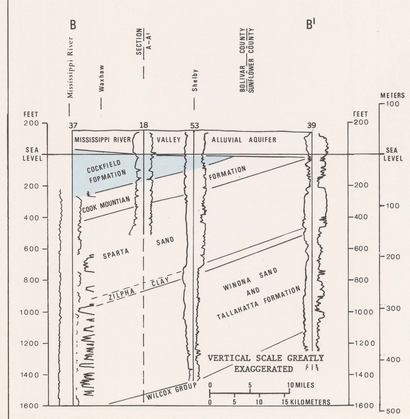

Figure 4.--Geohydrologic section from Bolivar County to Sunflower County.

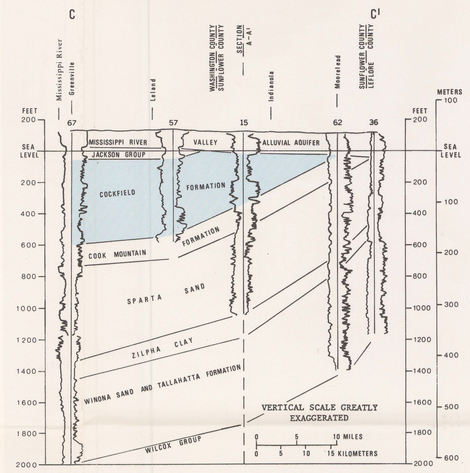

Figure 5.--Geohydrologic section from Washington County to Leflore County.

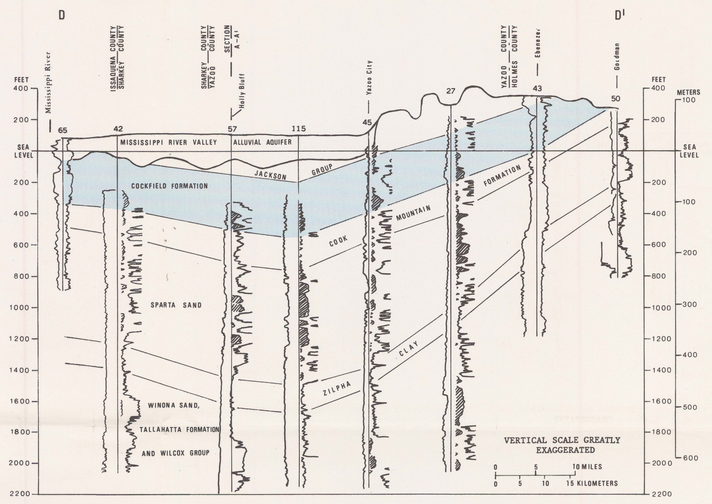

Figure 6.--Geohydrologic section from Issaquena County to Holmes County.

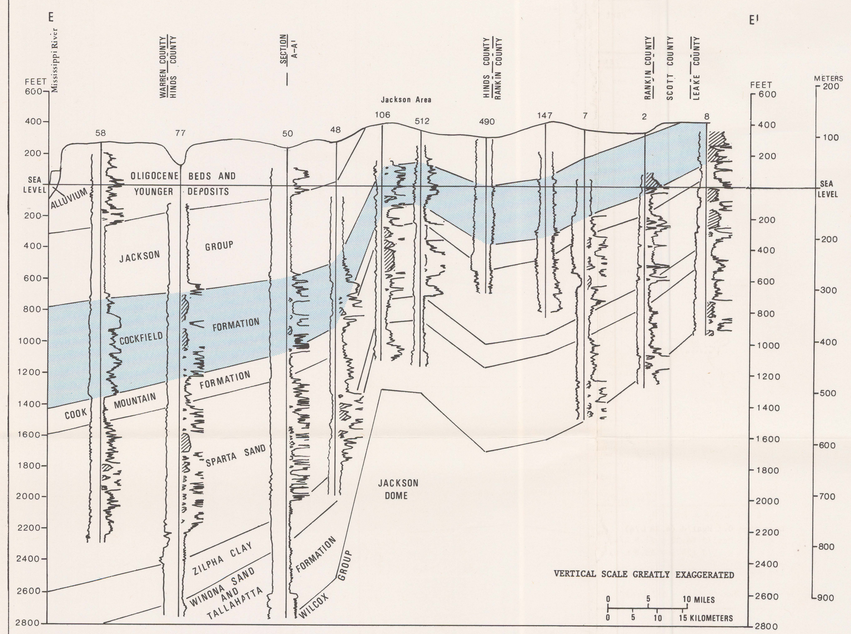

Figure 7.--Geohydrologic section from Warren County to Leake County.

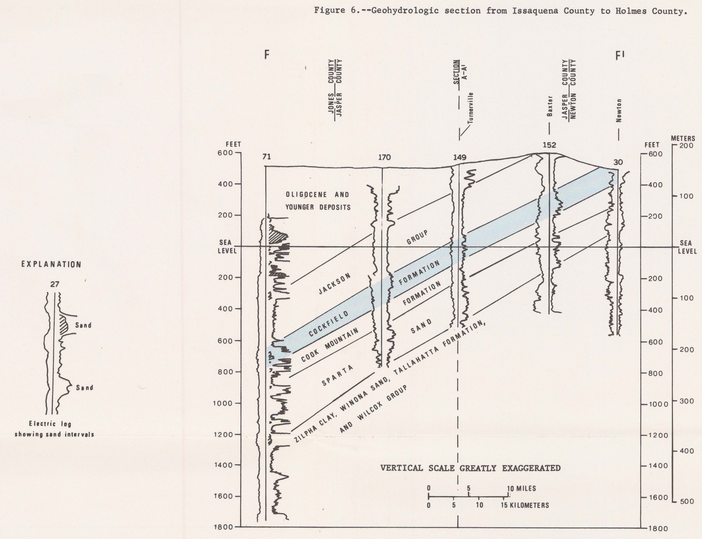

Figure 8.--Geohydrologic section from Jones County to Newton County.

THE COCKFIELD AQUIFER IN MISSISSIPPI

C. A. Spiers

1976

Table 2.--Water supplies from the Cockfield aquifer.

COUNTY	WATER USER MUNICIPAL, INSTITUTIONAL, INDUSTRIAL, AND WATER ASSOCIATION -- WA	DEPTH OF WELLS (FT)	PUMPING RATES OF WELLS (GAL/MIN)	DAILY WITHDRAWAL (1000 GAL/DAY)	TECHNICAL DATA AVAILABLE: CHEMICAL ANALYSIS	ELECTRIC LOG	PUMPING TEST
BOLIVAR	BENOIT	390	350	31	X	X	
	GUNNISON	470	450	31	X	X	
	LAMONT W A	490	75	34	X		
	ROSEDALE	220-230	350	275	X	X	
	SCOTT	490	350	60			
	SELF-SUPPLIED INDUSTRIAL	370	300	350		X	
HINDS	BOLTON	950-1035	300-400	48	X	X	
	CLINTON	725-775	450-480	726	X	X	
	EDWARDS	1105-1180	200-225	132	X	X	
	JACKSON	760	620	[a]1,720	X	X	
	LEARNED	1140-1150	35-50	8	X	X	
	LIMEKILN W A	755	75	8	X	X	X
	NORTH CLINTON	530-945	40-500	54		X	
	NORTH HINDS W A	1020	350	35		X	
	OAKLEY TRAINING SCHOOL	1080	80	70	X	X	
	RAYMOND	1170-1260	500-580	198	X	X	
	SELF-SUPPLIED INDUSTRIAL	705-1090	245-350	660	X	X	
JASPER	BAY SPRINGS	640	350	[a]156		X	
	BEAVER MEADOW W A	600-610	100-115	44			X
	HEIDELBERG	305-360	200-300	154	X	X	X
	PHILADELPHIA W A	605-610	350-370	61		X	X
	STRINGER W A	915	215	[a]25	X	X	X
	SELF-SUPPLIED INDUSTRIAL	555	40	[a]6	X	X	
JONES	SELF-SUPPLIED INDUSTRIAL	1065-1070	215-495	190	X	X	
MADISON	BEAR CREEK W A	565	200	[a]05			X
	LAKE CAVALIER	785	30-40	[a]18		X	
	LAKE LORMAN	605	250	11		X	
	LIVINGSTON ROAD W A	675	60	14		X	
	MADISON	580-600	215-500	114	X	X	
	METROPOLITAN	760	45	8		X	
	PEARL RIVER WATER DISTRICT	610-675	250-500	[a]19		X	
	RICHMOND GROVE	575	150	18		X	
	RIDGELAND	720	650	[a]234	X	X	X
RANKIN	ANSE & CLEARY RD.	870-1105	20-75	38		X	
	CLEVELAND, J.	695	20	27		X	
	CRYSTAL	890-900	50-100	75			
	EVERGREEN W A	810	105	25		X	
	FLORENCE	955-985	150-200	[a]60		X	X
	FLOWOOD	680	500	[a]58		X	
	GREENFIELD W A	925	35	38		X	
	HORSESHOE UTILITY	775-790	300-500	183	X	X	X
	JACKSON AIRPORT	615-624	290-320	150	X	X	X
	LANGFORD W A	770	200	32	X	X	
	MISSISSIPPI LAW TRAINING ACADEMY	860	350	63		X	
	MISSISSIPPI STATE HOSPITAL	785-865	250-750	520	X	X	
	MONTEREY W A	1055	125	22			
	NATIONAL DEVELOPMENT CO.	765-970	150	19		X	
	PEARL RIVER WATER DISTRICT	490-690	250-300	105		X	
	PISGAH W A	380	165	27		X	
	RAN-CO W A	900-1100	180-185	[a]58		X	
	SOUTHEAST RANKIN W A	1215	200	87		X	
	SOUTHERN RANKIN W A	945	100	17		X	
	STAR W A	685-690	80-100	32	X	X	X
	TAYLORSVILLE W A	785	100	23		X	
	THOMASVILLE W A	980	125	20			
	SELF-SUPPLIED INDUSTRIAL	795-1020	300-365	22	X	X	X
SCOTT	FOREST	350-360	520-765	[a]1,675	X	X	X
	SELF-SUPPLIED INDUSTRIAL	280	305	100	X	X	
SIMPSON	BRAXTON W A	1110	150	24	X	X	
SMITH	POLKVILLE W A	645	115	41	X	X	X
	TRAXLER W A	1100	240	47			
	WHITE OAK W A	880	126	25	X	X	X
WARREN	SELF-SUPPLIED INDUSTRIAL	805-855	80-250	233	X	X	
WASHINGTON	ARCOLA	650	700	38	X		X
	ELIZABETH W A	520	100	12	X		X
	FREEDOM VILLAGE	470	150	2			
	GOLDEN ACRES W A	575	65	4			
	GREENVILLE	440-665	15-1530	6,730	X	X	X
	LELAND	525-645	205-1500	635	X	X	X
	METCALF W A	475	135	30			X
	SWIFTWATER W A	460	120	13	X		X
	WINTERVILLE W A	505	150	8		X	X
	SELF-SUPPLIED INDUSTRIAL	415-515	500-1485	[a]7,286	X	X	
YAZOO	BENTONIA	640	100	50		X	
	SATARTIA	560	45	10	X		
	SELF-SUPPLIED INDUSTRIAL	545-570	65-400	25	X	X	

[a]Part of supply is obtained from other aquifers.

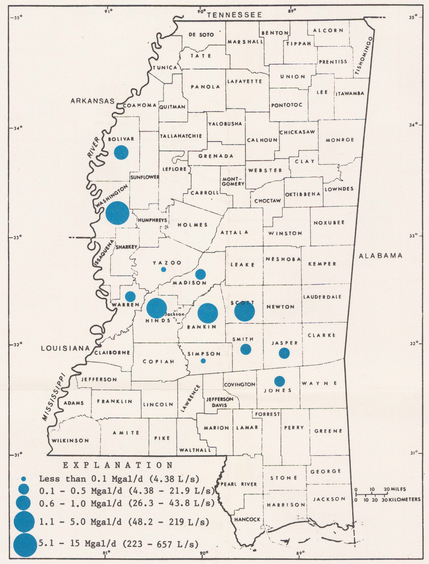

Figure 9.--Public and industrial water use from the Cockfield aquifer, 1976.

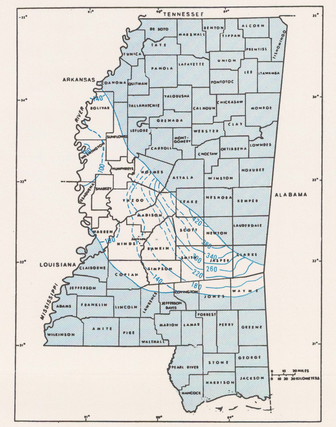

Figure 10.--Contours showing altitude of generalized potentiometric surface, 1976. Dashed where approximate. Contour interval, 40 feet (12 m). Datum is mean sea level.

Jackson, Mississippi

Cartography by Frances M. Hester