U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
CITY OF MEMPHIS,
MEMPHIS LIGHT, GAS AND WATER DIVISION

WATER-RESOURCES INVESTIGATIONS
REPORT 93-4075

Altitude of base of Memphis Sand-PLATE 2

Kingsbury, J.A., and Parks, W.S., 1993, Hydrogeology of the principal aquifers and relation of faults to interaquifer leakage in the Memphis area, Tennessee

EXPLANATION

DAVIS — MEMPHIS LIGHT, GAS AND WATER DIVISION WELL FIELD

--950-- STRUCTURE CONTOUR--Shows altitude of base of Memphis Sand. Dashed where approximately located. Contour interval 50 feet. Datum is sea level

FAULT--Existence established by stratigraphic correlation as interpreted from geophysical logs, but location only approximate. Ball and bar on downthrown side

—?—?— PROBABLE FAULT--Existence and location uncertain

C—C' LINE OF GEOLOGIC SECTION

-873 WELL WITH GEOPHYSICAL LOG USED AS CONTROL--Number is altitude of base of Memphis Sand, in feet below sea level

Sh:T-18 WELL FOR WHICH GEOPHYSICAL LOG IS USED ON GEOLOGIC SECTION--Letters and number show U.S. Geological Survey local well number

90°15' 90°00' 89°45' 35°15' 35°00'

0 5 MILES
0 5 KILOMETERS

MISS. CO
TIPTON CO
SHELBY CO
ARKANSAS
TENNESSEE
MORTON
MALLORY
ALLEN
DAVIS
CRITTENDEN CO.
SHELBY CO
TENNESSEE
MISSISSIPPI
MC CORD
SHEAHAN
SHAW
Germantown
Collierville
LICHTERMAN
SHELBY CO
DESOTO CO
FAYETTE CO
MARSHALL CO
Millington
Bartlett
Arlington
West Memphis
Walls
Horn Lake
Olive Branch
Loosahatchie River
Wolf River
MISSISSIPPI RIVER
ARKANSAS
Nonconnah Creek

C -904 Sh:T-18
-797 A' Sh:U-59 -767
Sh:U-12 -730
-873
-750 Sh:P-201 -789
B' Fa:R-1 -405
Sh:Q-154 -626
-718
D -739 -758 -749 -723 -744 Sh:O-169
-653 Sh:K-138 -646
-740 -741 -762 -810 Sh:J-104
Sh:J-167 -737
-814 -813 Sh:J-185
-677 -676
-938 -900 -947
-809 -849 -826 Ms:A-29 A -847
-461 -449 -477 -492 -508 -492 -474 -465 -520 Sh:R-33
-445
-521 -513 -499 Sh:L-29 -466
-497
-447 -477 -442 -453 -487 -477 -431 -429 -478 -435 Sh:L-101
B -457 Sh:L-12 D'
Sh:M-38 -265 C'
-157
-233

Base from U.S. Geological Survey 1:24,000 and Mississippi River Commission 1:62,500 quadrangles

ALTITUDE OF BASE OF MEMPHIS SAND

By
James A. Kingsbury and William S. Parks

1993