

5/78 WTD

4/80

Recorded by JES WTD
Date 7/70 3/80

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT
WELL RECORD

Well No. J22
E-Log No. 20
County De Soto

No Driller's log

Frees Corner Quad

Site ID 344627090071601 R=0* T=A* 2=W*

GEN. SITE DATA

Data reliab. 3=C* Report. agency 4=USGS* Dist. 6=28* 7=28* Co. 8=033*

Lat. Long./ 9=34.4627* 10=0.900716* Well No. 12=J022*

Location 13=SESE s 35 T 03 S R 09 W* Alt. 16=280*

Hyd. Unit (OWDC) 20= Date 21=07/28/1970*

Well use 23=W* Water Use 24=H* Hole depth 27=190* Well depth 28=172*

WL 30= Date 31= Source 33=

Status 273= Project No. 5= RE SPRT

OWNER

R=158* T=A* Date 159#08/01/1970* Owner No. #W-1-70

Owner 161=USCE, ARIKAB, UT, LA*

FIELD QW

R=192* T=A* Date 193# Temp. 196#00010* 197=

R=192* T=A* Date 193# Cond. 196#00095* 197=

R=192* T=A* Date 193# pH 196#00400* 197=

CONSTR.

R=58* T=A* 59# 1* Date 60=08/01/1970* Remarks

Drlg. 63= Name USCE Method 65=H* Finish 66=S*

CASING

R=76* T=A* 59# 1*

Top csng. 77# 0* Bot. csng. 78=163* Diam. 79# 4*

R=76* T=A* 59# 1*

Top csng. 77# Bot. csng. 78= Diam. 79#

OPENINGS

R=82* T=A* 59# 1* Top 83# 163* Bottom 84=172*

Type 85=S* Diam. 87=2.5* Size 88=.018*

R=82* T=A* 59# 1* Top 83# Bottom 84=

Type 85= Diam. 87= Size 88=

YIELD

R= T=A* 147# 1* Q 150= Q/S 272=

134 flows 146 pumped

LIFT

R=42* T= A * Lift type 43# * Intake 44= * Power type 45= *

Date 38= / / H.P. 46= *

LOGS

R=198* T= A * Log 199# E * Top 200= 1.0 * Bot 201= 19.0 *

R=198* T= A * Log 199# * Top 200= * Bot 201= *

R=189* T= A * E Log No. 190# 0.2.0 * 191= M I S S D I S T *

ANAL.

R=114* T= A * Year 115# * Type 120= *

AQUIFERS

R=90* T= A * 256# 1 * Top 91= 15.0 * Bot 92= *

Unit ID 93= 124SPRT * Name of Unit

R=90* T= A * 256# 1 * Top 91= * Bot 92= *

Unit ID 93= * Name of Unit

HYDRAULICS

R=98* T= A * 99# 1 * Unit tested 100= * 103= *

R=105* T= A * 99# 1 * Test No. 106# *

107= * Transmissivity (gal/d)/ft

108= * Hydraul. cond. (gal/d)/ft²

110= * Storage coeff. Boundaries

R=121* T= * Yr Begin 122# * Network 258= *

Water Level Data Collection (1)

**APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW
FOR BENEFICIAL USE THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI**

RECEIVED
DEC 16 2006

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

This box is for office use only. 4-22-97 AGN. Dept. of Environmental Quality
FORM OLV-10 (REV. 10/94) Water Resources

Issued: <u>1-13-87</u>	Expires: <u>4-22-2007</u>	Fee Paid: <u>X</u>	Permit No.
Lat. <u>34-46-35</u>	Long. <u>90-07-02</u>	Elev. <u>280</u>	USGS No.
Quad. <u>FREES CORNERS</u>	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: <u>SPRT</u>	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): RENEWAL PERMIT NO. MS-GW-03893

THIS APPLICATION IS FOR (Circle one): GROUNDWATER COMPLETE A,B,E
SURFACE WATER - COMPLETE A,C,D,E

BENEFICIAL USE (Circle one or more): 1) Public Supply - Municipal, Rural Water, or Private Water 2) Irrigation
3) Industrial 4) Fish Culture 5) Recreation 6) Institutional (eg. Church, School) 7) Commercial (eg. Hotel, Casino, Restaurant) 8) Fire Protection 9) Livestock 10) Flood Protection 11) Other: _____

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: Corps of Engineers, Vicksburg District 601-562-6261
(Name) (SSN or Tax ID No.)
P.O. Box 60
(Address)
Vicksburg, Mississippi 39180 (601) 634-5638
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):

(Name) (SSN or Tax ID No.)

(Address)

(City) (State & Zip) (Telephone)

NO MAP

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application): Arkabutla North
NW 1/4 of the SE 1/4 of Section 35, Township 3S, Range 9W, County Desoto ABUTMENT

Does the land to which this application pertains have any source(s) of water other than that for which you are now applying (circle one)? YES NO If yes, describe the nature and amount of any additional supply and, if applicable, list permit number. _____

SECTION B (to be completed for GROUNDWATER SOURCE)

- AQUIFER: SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170036-01
- Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? August, 19 70. Under whose name was well originally drilled (if known)? Corps of Engineers
- Description of proposed or completed well:
 - DEPTH OF WELL: 110 feet. DRILLER: Corps of Engineers
 - SURFACE CASING: Length 110 feet; Diameter 6 inches; Type Iron Pipe
 - SCREEN: Length 11 feet; Diameter 2-1/2 inches; Type Stainless Steel
 - PUMP: Type --; Size --; Capacity 100 gallons per minute; Setting depth 105 feet
 - POWER UNIT: Type _____; Size _____ horsepower
- PERMITTED VOLUME:
 - _____ acre-feet per year at a maximum rate of _____ gallons per minute
 - .072 0.02 million gallons per day at a maximum rate of 100 gallons per minute

.072 EB
3-19-97

(CONTINUED ON BACK)

SECTION C (to be completed for **SURFACE WATER SOURCE**)

1. Source of water is from _____ which drains into _____
which drains into _____
(major stream or river)
2. Discription of pump/diversion works:
Pump (size & type): _____ Power Unit (size & type): _____
Lift: _____ feet Maximum capacity: _____ gallons per minute
3. _____ acre-feet per year at a maximum rate of _____ gallons per minute

SECTION D (to be completed for **SURFACE WATER IMPOUNDMENTS (DAMS)** on continuously flowing streams)

1. Name of storage reservoir: _____ Dam Height: _____ feet
2. Surface area at normal pool: _____ Storage capacity at normal pool: _____ acre-feet

SECTION E WATER USE DATA (ALL APPLICATIONS - complete section related to beneficial use)

1. **IRRIGATION:** List the number of acres of each crop to be irrigated: Rice _____; Cotton _____; Oats _____; Corn _____; Soybeans _____; Pasture _____; Truck _____; Wheat _____; Grain Sorghum _____; Other (specify) _____ Acres _____
 - A. Method of Irrigation (circle one) - Center Pivot Flood Furrow
 - B. Land Condition (circle one) - Precision Land Formed Smoothed
 - C. ASCS Farm No. _____ Tract No. _____
2. **FISH CULTURE:** Explain how water will be used: _____
How often will reservoir (s) be emptied and refilled? _____
3. **MUNICIPAL, WATER ASSOCIATION, or PRIVATE WATER SYSTEM**
Chose "a" or "b". (a) The number of people served is _____ or (b) The number of connections is _____
What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the next twenty (20) years?
(Volume) (Year); (Volume) (Year); (Volume) (Year); (Volume) (Year)
4. **INDUSTRIAL:** If the water is to be released into a watercourse, indicate the amount released each year _____
Rate of release _____; NPDES Permit No. _____
Explain any changes in quality of water to be released: _____
Explain how water will be used: _____
How much groundwater will be used for once-through non-contact cooling? _____
5. **RECREATION:** Explain how water will be used: Potable water supply to recreation site.
6. **OTHER USE:** Explain in detail (if needed, attach another page): _____
7. **REMARKS:** _____

List below the person to be contacted for additional information if required.

JOHN E. HENLEY
(Name)
P. O. BOX 60
(Address)
VICKSBURG, MS 39180
(City, State, Zip)

(Telephone)

The accompanying map is hereby declared a part of this application. For irrigation and fish culture use, an ASCS photograph is required. The **TEN DOLLAR (\$10.00) permit fee** is enclosed herewith.

Acting on behalf of the Vicksburg District Corps of Engineers:

Hal H. Moore
(Signature)

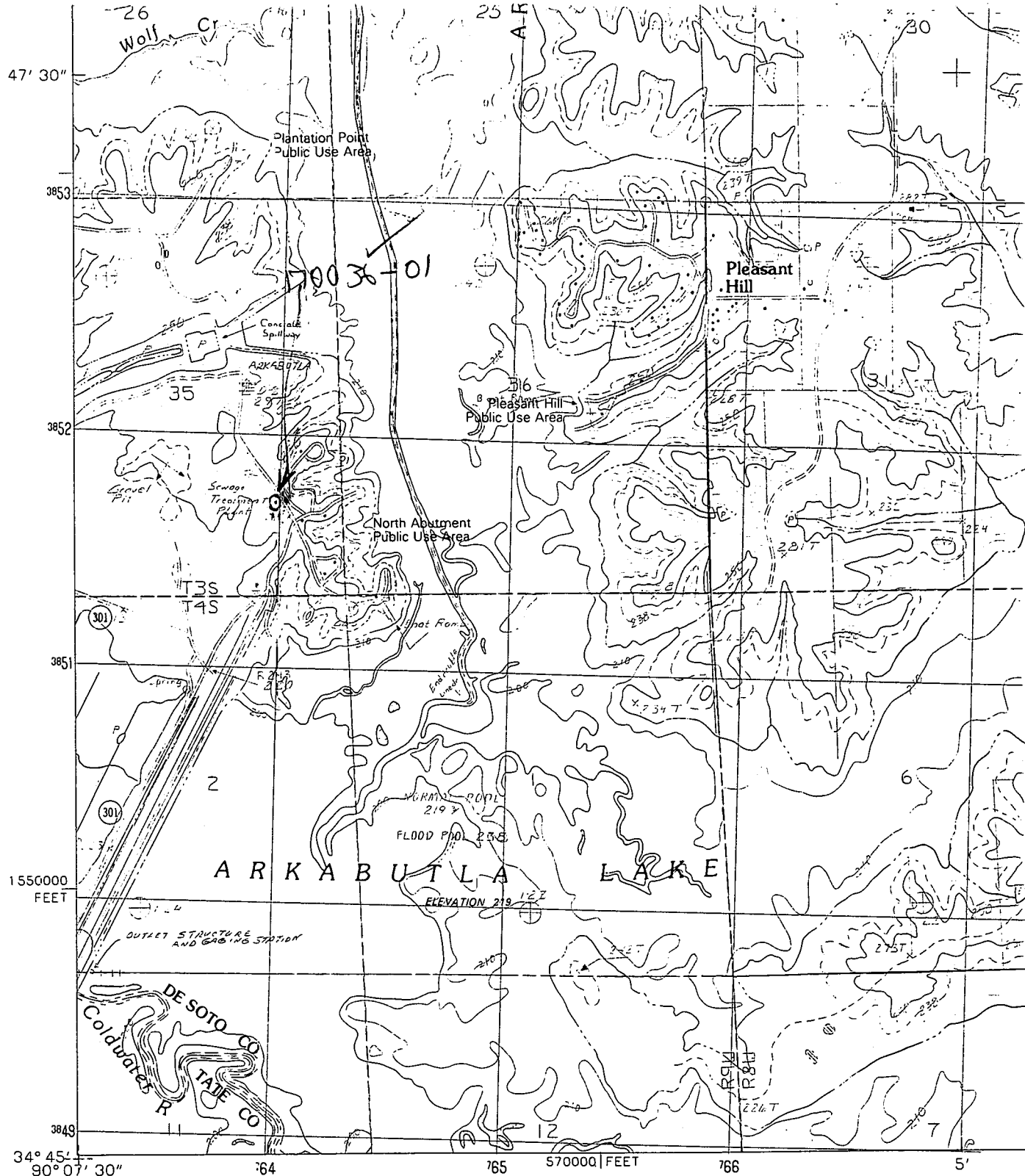
Subscribed and sworn to before me this 4th day of Dec., 1996, at Sate County of MS
My commission expires My Commission Expires 2-21-98, Dale M. Algee Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

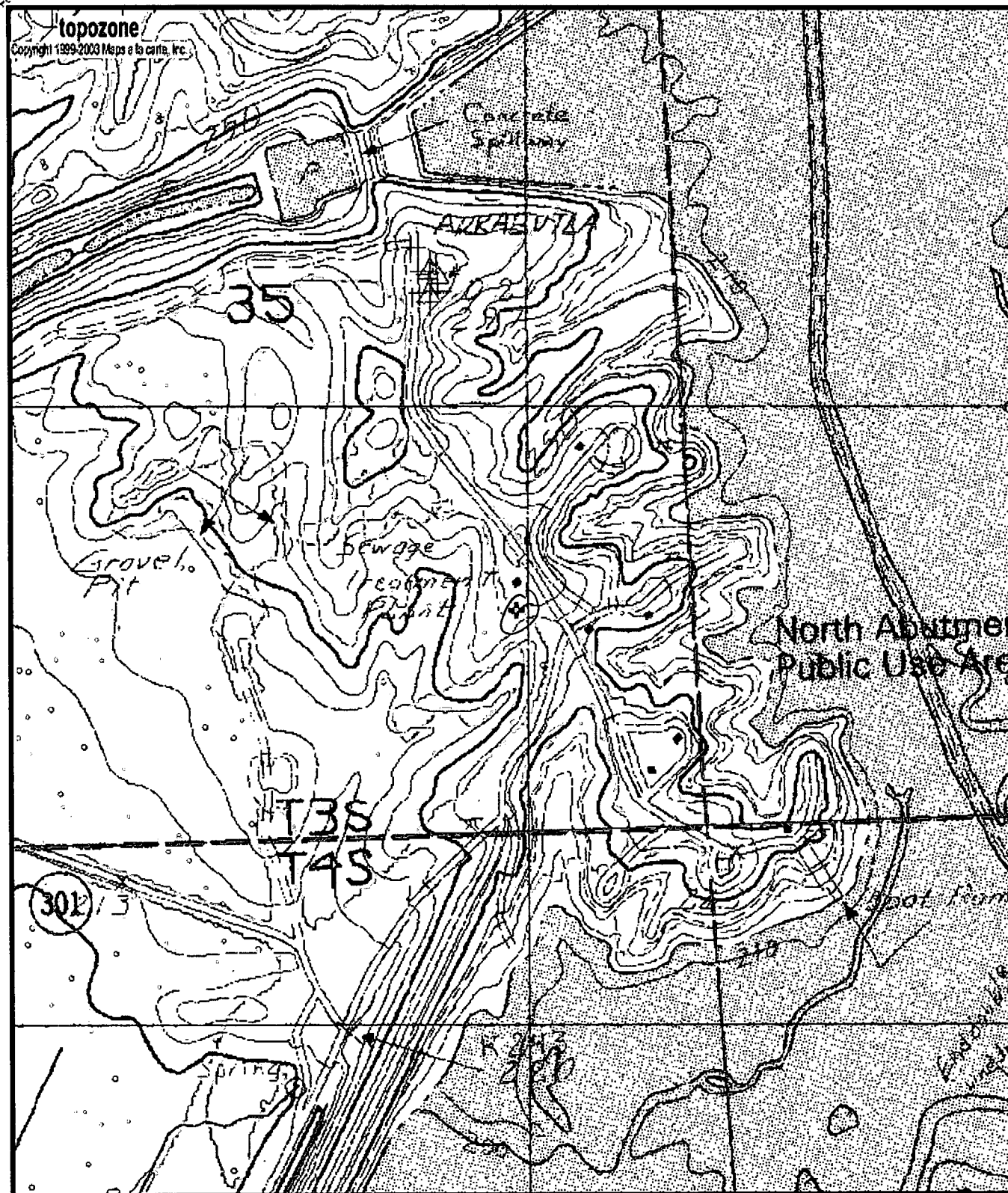
USER NAME(S): SHB4PEG LAK / DRB DATE: 8-21-96
7/26/94
UNIT DEQ #: 84090 FILE #: B0726 22A
HEALTH DEPT. #: 170036-01 ELEV. 29.7
USGS #: J22? OLWR #: MS-GW-3893
OWNER: AKABUTLA N. Campground (U.S. Army Corps of Eng)
LOCATION: N 5 E 15 S 35 T 35 R 9 W COUNTY: De Soto
LOCATION DESCRIPTION: .15 mi. from N. end of Dam
on Li. side across from Campground
ENTRANCE 2 RICE SUB.
CASING DIA: 6" PUMP TYPE & SIZE: Sub.
GPS FIELD LOCATION: LAT. 34° 46' 53.1" LONG. 90° 06' 93.4"
GPS CORRECTED LOCATION: LAT. 34.77500986 LONG. 90.11564988
REMARKS: 34° 46' 30.03" 90° 06' 56.34"

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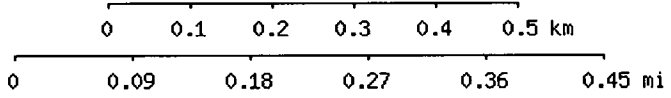


PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
 CONTROL BY USGS AND NOS/NOAA
 COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1975
 FIELD CHECKED 1977. MAP EDITED 1982
 PROJECTION TRANSVERSE MERCATOR
 GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ZONE 15
 10,000-FOOT STATE GRID TICKS MISSISSIPPI, WEST ZONE
 UTM GRID DECLINATION 1°41' EAST
 1982 MAGNETIC NORTH DECLINATION 3° EAST
 VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1929
 HORIZONTAL DATUM 1927 NORTH AMERICAN DATUM
 To place on the predicted North American Datum of 1983,
 move the projection lines as shown by dashed corner ticks
 (8 meters south and 8 meters east)
 Underwater contours in Arkabutla Lake taken from
 U. S. Corps of Engineers charts dated 1940
 There may be private inholdings within the boundaries of any
 Federal and State reservations shown on this map

PROVISIONAL MAP
 Produced from original
 manuscript drawings. Informa-
 tion shown as of date of
 field check.



0170036-01
 6w03893?
 J22



Map center is 34° 46' 30"N, 90° 06' 57"W (WGS84/NAD83)
Frees Corners quadrangle
 Projection is UTM Zone 15 NAD83 Datum

M=0.091
 G=1.647