

TRANSMITTED FOR GWT

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Date _____

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. 51
County DESO
Agency _____

Well No. H80
30B

WELL RECORD

Olive Branch quad

Agency Code U S G S Site Id 13454020894951012 Project No. 5

Station Name 12 H0801 LEWISBIRIGI WA IA Latitude 93454102 Longitude 1008949511

Lat/Long Ac. 11 SF TM Dist 6=28 State 7=28 County SE SE Land Net 13 NIEINISIZI T1012SR1016W

Location Map 14 NILIUIEIBRIANICHI Altitude 340 Met/Meas 16 350 Accuracy 17 A L M Hydrologic Unit 20 08103P12014

Agency Use 803 A I O Date Inventoried 711 017 / 114 / 11989 Station Type _____ Data Type _____

Instru. 805 Remarks _____ Relia. 3 C M U 2 W X

Date of Construction 21 07 / 114 / 11989 Well Use 23 W Water Use 24 P Primary Aquifer 71 124 SPRT Hole Depth 27 301 WA

Well Depth 28 247 Water Level 30 82 Water Level Date 31 10 / 107 / 11989 Method 34 Status 37 Source 33 D

CONSTRUCTION DATA

Construction Date 60 12 / 107 / 11989 Contractor 63 0211 Name Herndon Method 65 H Finish 66 G

CONSTRUCTION CASING DATA

R=76	T=A	725#1	59#1	77 1101	78 121061	79 121
R=76	T=A	725#2	59#1	77 11501	78 121061	79 181

CONSTRUCTION OPENINGS DATA

R=82	T=A	726#1	59#1	83 12016	84 121471	87 181	85 S	89 111	88 102101
R=82	T=A	726#2	59#1	83 11111	84 11111	87 111	85	89 111	88 11111

CONSTRUCTION LIFT DATA

R=42 T=A 254#1 Lift Type 43 T Date 38 12 / 107 / 11989 Intake 44 11421

Power 45 E H.P. 46 30 Serial No. 49

MISCELLANEOUS OWNER DATA

Date of Ownership 159 12 / 107 / 11989 Owner Name 161 LEWISBIRIGI WA IA

MISCELLANEOUS OTHER ID DATA

R=189 T=A 736#1 E-Log No. 190 0511 Assigner 191 M I S S I D I S T Well # 4

MISCELLANEOUS QW DATA

R=192	T=A	738#1	Date of Measurement 1934 / / *	Aquifer Sampled 195# *	Temp 196#00010	Value 197#
R=192	T=A	738#2	Date of Measurement 1934 / / *	Aquifer Sampled 195# *	Sp Cond 196#00095	Value 197#
R=192	T=A	738#3	Date of Measurement 1934 / / *	Aquifer Sampled 195# *	pH 196#00400	Value 197#

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	Log Type 1994E *	Beg. Depth 200# 1210 *	End Depth 201# 1298 *
R=198	T=A	739#1	Log Type 1994D *	Beg. Depth 200# 110 *	End Depth 201# 1310 *

MISCELLANEOUS NETWORK DATA

R=114	T=A	730#1	Beg. Year 1154 9 *	End Year 1164 9 *	Agency Source 120=A 117# *	Freq. 118# *
R=121	T=A	730#2	Beg. Year 1154 9 *	End Year 1164 9 *	Agency Source 117# *	Freq. 118# *

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks 184# / / *	Remarks 185# *
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DISCHARGE DATA

R=146	T=A	Pump Flow 147#1	Date 148# 12 / 107 / 11989 *	Type 703# P F	Discharge 150# 1536 *	Sp. Capacity 272# 124 15 *
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GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 91# 11410 *	Depth Bot. 92# 1249 *	Unit Id 93# 124SIPIRITI * e 30#	304=P
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100# *	103# *
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200' South of well #2
(20' ± off ditch)

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO
Red Clay	0	15
Fine Sand	15	75
Coarse Sand	75	100
Shale & Sand	100	140
Coarse Sand	140	249
Shale & Fine Sand	249	301

CODED

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Land and Water Resources

P.O. Box 10631
Jackson, Mississippi 39209
WATER WELL DRILLERS LOG

COUNTY WELL LOCATED DeSoto		PERMIT NUMBER 00870
WELL NUMBER 4	CODED <input checked="" type="checkbox"/>	NAME OF DRILLING FIRM Herndon Well & Supply
H80		Shannon, MS 38868
DATE WELL COMPLETED 12/07/1989		

NAME & MAILING ADDRESS OF LANDOWNER
Lewisburg Water Association
8366 Vaiden Rd
Hernando, MS 38632

WELL LOCATION: SEC 21 TOWNSHIP 2 RANGE 6
N S E W

DISTANCE 5 Miles DIRECTION South NEAREST TOWN Olive Branch

OTHER LANDMARK

WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc.
Municipal

PUMP DATA

PUMP TYPE (Circle One):
Submersible, Turbine, Jet, Flowing Well,
Other (Describe) _____

POWER TYPE (Circle One):
Electric, Tractor, Diesel, Gasoline, Butane,
Other (Describe) _____

Pump Capacity (GPM)	No. of Stages	Setting Depth
536	4	142 FT.

PUMP TEST
Well yielded 536 GPM with
a drawdown of 21.88 ft.
after 8 hours of pumping

WELL DATA

Well Depth 246'6"	Casing Diameter (In.) 12"	Casing Length (Ft.) 206'
Type of Casing Steel	Hole Depth 301'	Depth to Static Water Level 81.67

TYPE OF COMPLETION: (Circle One or More):
Gravel Packed, Underreamed, Telescoped,
Natural Development, Open Hole, Other
(Describe) _____

Top of Lap Pipe or Reduction in Casing
150 FEET IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE

LOG DATA

TYPE OF LOG RUN (Circle One):
Electric, No Log Run, Gamma Ray, Density, Sonic, Neutron,
Other (Describe) _____

Name of Organization Running Log
Herndon Well & Supply, Inc.

SCREEN DATA

Diameter - Inches 8"	Length - Feet 40'6"	Slot Size - Inches .020
Screen Type Stainless Steel		Depth to Bottom - Feet 246'6"

GEOLOGIC DATA (Office Use Only)

Surface Elev.	Geologic Unit	Unit Thickness	Depth to Top
Subs. SWL	Date	Analysis	Aquifer Test

Driller's Remarks

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
Red Clay	0	15			
Fine Sand	15	75			
Coarse Sand	75	100			
Shale & Sand	100	140			
Coarse Sand	140	249			
Shale & Fine Sand	249	301			

IF MORE SPACE IS NEEDED, USE BACK

The box below is for office use only.

SPRT

H-80

Issued: 4-13-93	Expires: 4-13-2003	Fee Paid: 1	Permit No. GW-14626
Lat. 34-54-02	Long. 89-55-09	Elev. 350' 340'	USGS No.
Quad OLIVE BRANCH	49	Dist. 51	Basin No. 08030204
STAC			Dam Inv. No.
			Dam appl. No.

Dept. of Natural Resources, Bureau of Land and Water Resources, P.O. Box 10631, Jackson, MS 39289-0631

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

MAR 18 1993

This application is for (circle one): GROUNDWATER SURFACE WATER

Beneficial Use (circle one or more): Irrigation Fish Culture Municipal Rural Water Association Industrial Recreation Institutional (Examples: Church, School) Commercial (Examples: Hotel, Restaurant) Livestock Standby Fire Protection Flood Protection Other: _____

LANDOWNER:

Lewisburg Water Association (Name) 64-0436072 (S/S or Tax ID No.)
8439 Dunn Lane (Address)
Olive Branch (City) Mississippi 38654 (601) 895- 5067 (State and Zip) (Telephone Number)

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

SAME (Name) _____ (S/S or Tax ID No.)

(Address)

(City) _____ (State and Zip) _____ (Telephone Number)

Location of diversion/withdrawal point (A suitable location map must accompany this application):

SE NE 1/4 of the NE 1/4 of Section 21, Township 25, Range 6W, County Desoto

Volume of water diverted/withdrawn (Choose "a", "b", "c", or "d" ["d" is for units other than those shown in "a", "b", or "c"]):

- (a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
- (b) .14 million gallons per day at a maximum rate of 536 gallons per minute
- (c) _____ acre feet of storage at normal pool
- (d) _____ per _____ at a maximum rate of _____

Construction of proposed work will begin on (date) _____, 19____ and will be completed by (date) 7-14, 1989.

Water will be used from (month) _____ to (month) _____ each year.

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 numbers.

GW 2870, 2871

SECTION A (to be completed if application is for surface water source)

- Source of water is from _____ which drains into _____ which drains into _____ which drains into _____
- Description of pump/diversion works:
 - (a) Pump (size and type): _____ Power Unit (size and type): _____
Lift: _____ feet Maximum capacity: _____ gallons per minute.
 - (b) Name of storage reservoir: _____ Dam height: _____ feet.
Surface area at normal pool: _____ acres. Storage capacity at normal pool: _____ acre-feet.

SECTION B (to be completed if application is for groundwater source)

1. Source of water is _____ aquifer.
2. Description of proposed water well:
 - (a) DEPTH OF WELL: 246' feet. DRILLER (name): Herndon Well Co.
 - (b) SURFACE CASING: Length: 206' feet. Diameter: 12 inches. Type: Steel Coated
 - (c) SCREEN: Length: 40' x 6" feet. Diameter: 8 inches. Type: .020 Stainless
 - (d) PUMP: Type: Jacuzzi. Size: 6" turbine. Capacity: 536 gallons per minute.
Number of stages: 4 Setting depth: 142 feet.
 - (e) POWER UNIT: Type: NORTH CAROLINA Electric Power Size: 30 horsepower.
 - (f) TYPE OF COMPLETION: _____

WATER USE DATA:

If for IRRIGATION, FISH CULTURE or any other areal use, show the number of acres to which water will be applied in the appropriate 40-acre block(s). Acreage must be shown on accompanying location map.

TOWN-SHIP	RANGE	SEC-TION	NE1/4				NW1/4				SW1/4				SE1/4				TOTALS		
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4			

1. IRRIGATION: List the number of acres of each crop to be irrigated: Rice _____; Cotton _____; Soybeans _____; Corn _____; Pasture _____; Truck _____; Wheat _____; Oats _____; Grain sorghum _____; Other (specify) _____ Acres _____
2. FISH CULTURE: Explain how water will be used: _____
How often will reservoir(s) be emptied and refilled? _____
3. MUNICIPAL or WATER ASSOCIATION
Choose "a" or "b". (a) The number of people served is 682. (b) The number of connections/customers is 2046
What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the next twenty years? 72,000,000 1995; 77,000,000 2000; 82,000,000 2005; 90,000,000 2010
(Volume) (Year) (Volume) (Year) (Volume) (Year) (Volume) (Year)
4. INDUSTRIAL: If water is to be released into a watercourse, indicate the amount released each year _____
Rate of release _____; Location of release point in reference to diversion/withdrawal point _____
_____ Explain any change in quality of water to be released: _____
NPDES Permit No. _____
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: _____
6. OTHER use: Explain in detail: _____

REMARKS: _____

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

Joane Ross
(Name)
8439 Dunn Lane
(Address)
Olive Branch, MS 38654
(City, State, Zip)

(Telephone)

The accompanying map is hereby declared a part of this application. The TEN DOLLAR (\$10.00) permit fee is enclosed herewith.

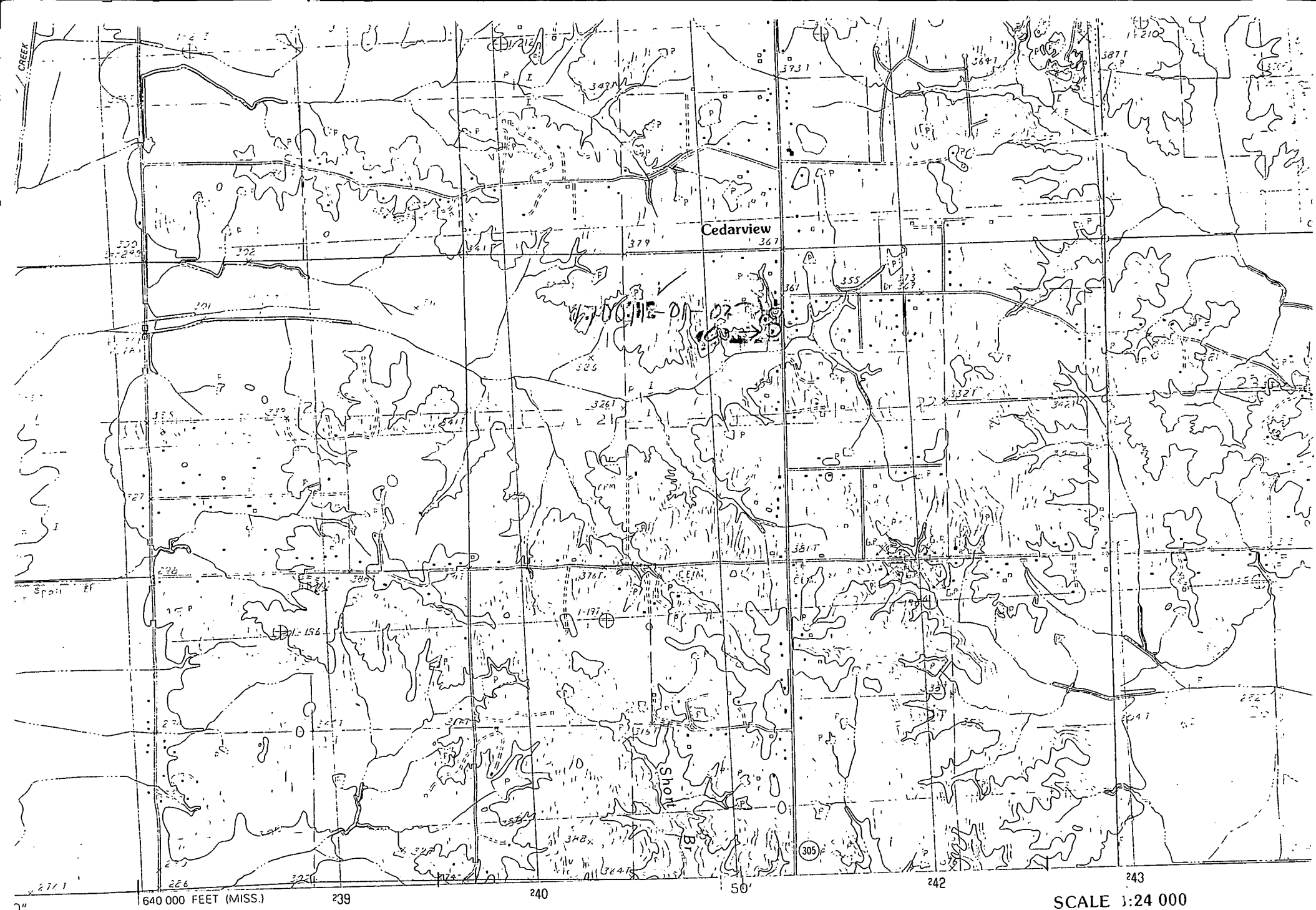
Joane Ross
(Signature)

Subscribed and sworn to before me this 10th day of March 1993, at _____
County of DeSoto. My commission expires March 24, 1994
Shonora Anderson Notary Public

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

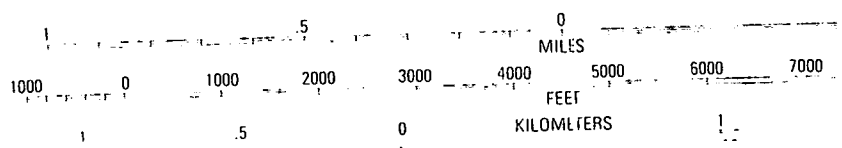
GPS LOG

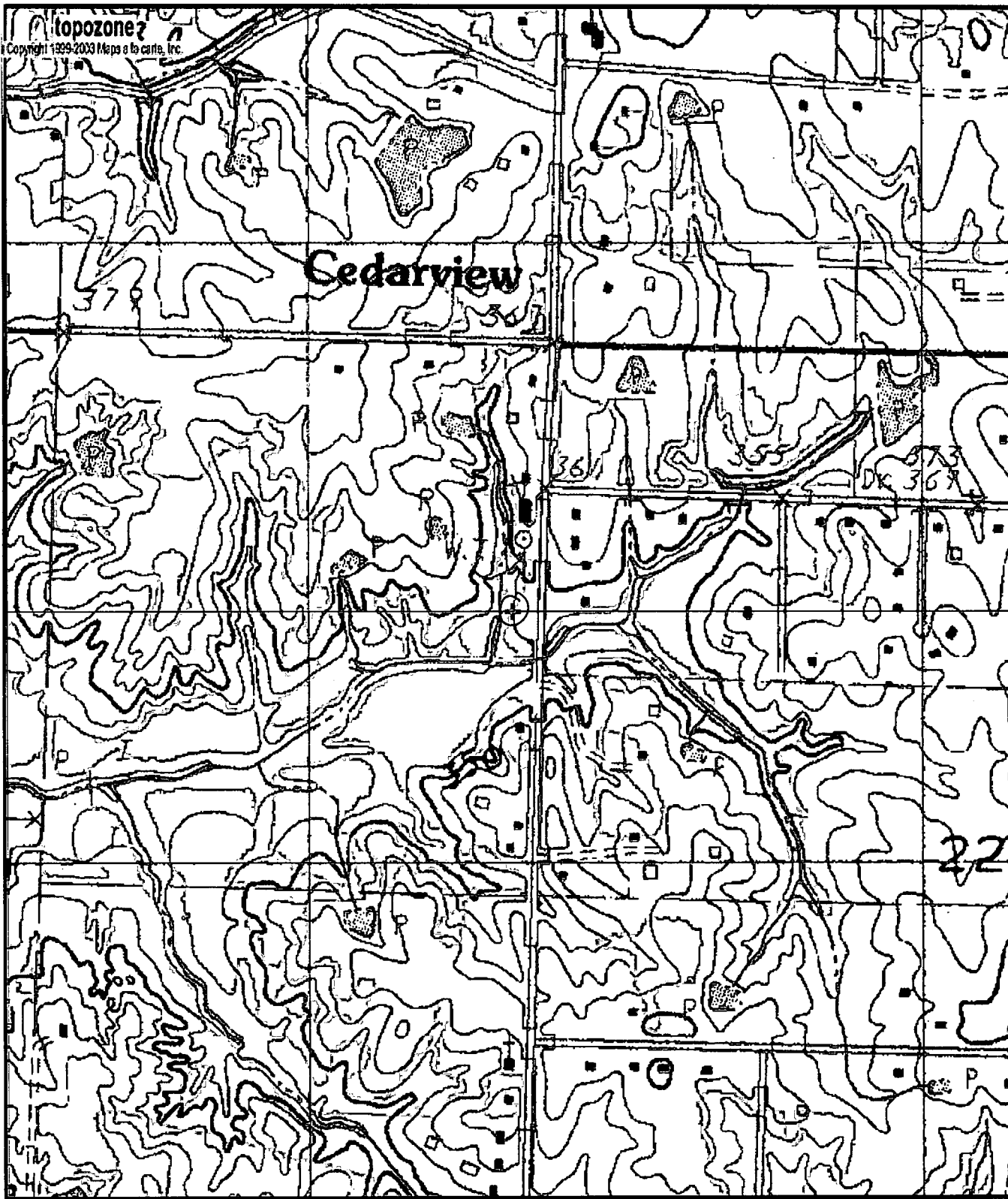
USER NAME(S): SHB+PEG CAR/DAB - DATE: 7-24-94
7/26/94
UNIT DEQ #: 84090 FILE #: B070615C
B072423A
HEALTH DEPT. #: 170011-03 ELEV. 350
USGS #: 469 H-80 OLWR #: MS-GW-14624
OWNER: LEWISBURG WATER ASSOC.
LOCATION: NE/SE/NE S 21 T 2S R 6W COUNTY: DeSoto
Olive Branch Dam
LOCATION DESCRIPTION: 100 yd. South of ELEV. TANIR 150' West
of Hwy 305.
CASING DIA: 10" PUMP TYPE & SIZE: TURBINE 30HP
GPS FIELD LOCATION: LAT. 34.539794 LONG. 89.492576
34° 54' 01.1" 89° 49' 50.9"
GPS CORRECTED LOCATION: LAT. 34.90015875 LONG. 89.83091476
REMARKS: SEE WELL #1 FOR LOCATION.



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
 CONTROL BY USGS AND NOS/NOAA
 FILED FROM AERIAL PHOTOGRAPHS TAKEN 1975
 CHECKED 1977. MAP EDITED 1982
 SECTION TRANSVERSE MERCATOR
 1000-METER UNIVERSAL TRANSVERSE MERCATOR ZONE 16
 WEST ZONE

NORTH ↑





0 0.1 0.2 0.3 0.4 0.5 km
 0 0.09 0.18 0.27 0.36 0.45 mi

Map center is 34° 54' 01"N, 89° 49' 51"W (WGS84/NAD83)

Olive Branch quadrangle

Projection is UTM Zone 16 NAD83 Datum

M=-0.139
 G=-1.621