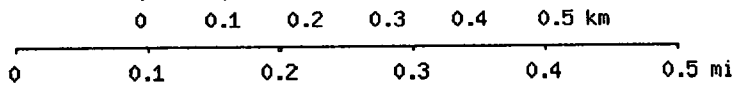
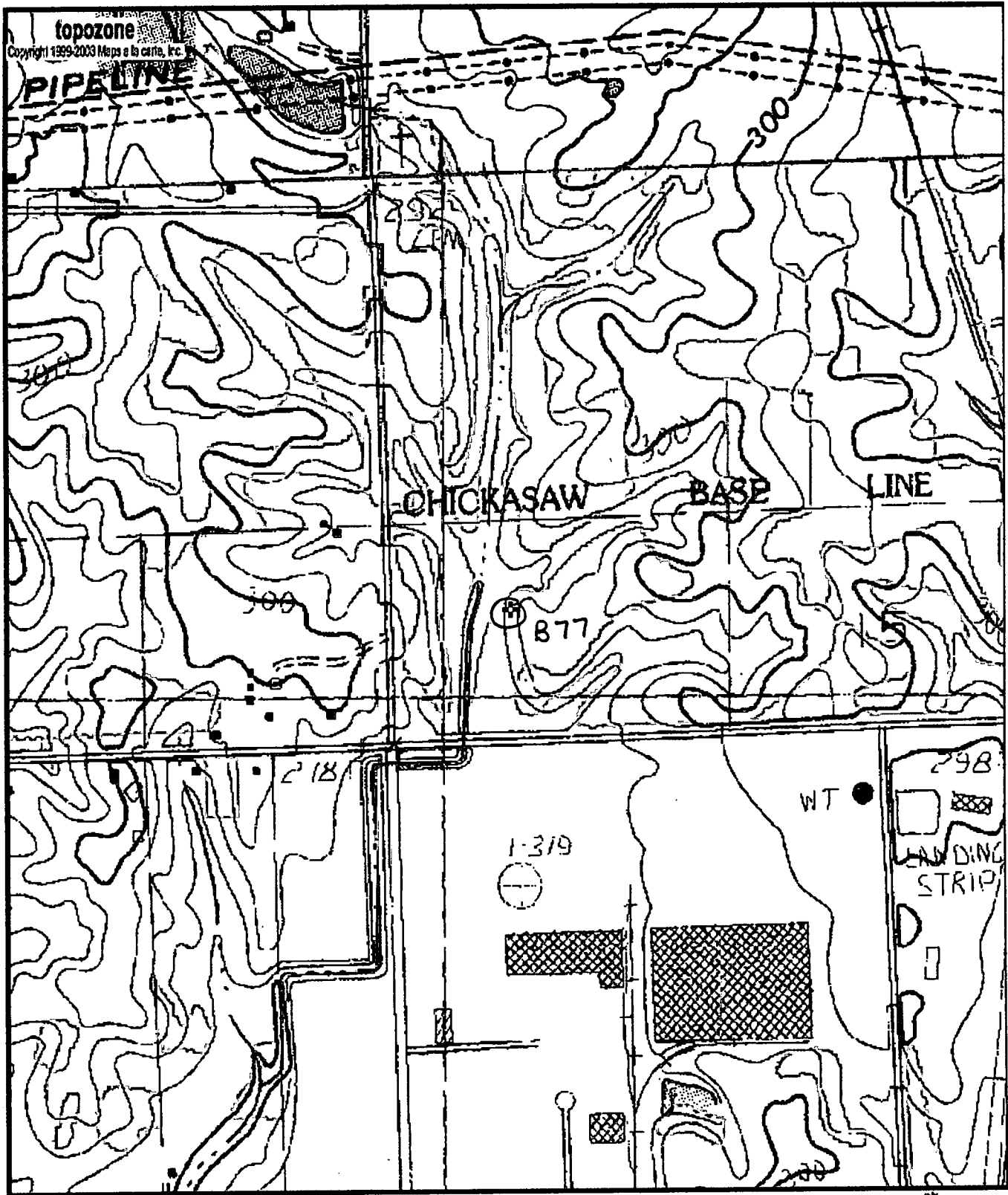


Map center is 34° 59' 38"N, 90° 02' 27"W (WGS84/NAD83)
Horn Lake quadrangle - TopoZone Pro elevation display
 Projection is UTM Zone 15 NAD83 Datum

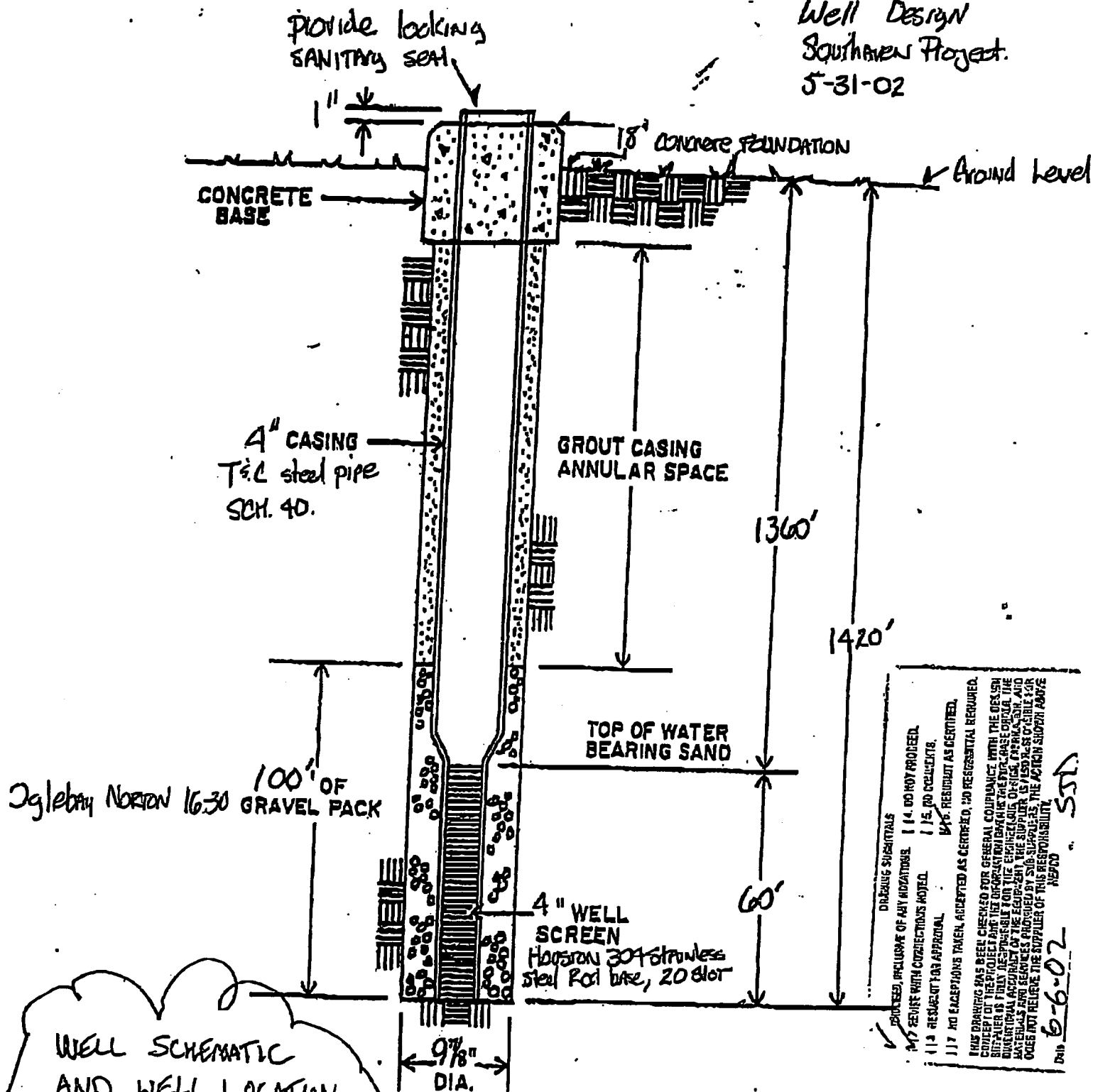
M=0.137
 G=1.699



Map center is 34° 59' 38"N, 90° 02' 27"W (WGS84/NAD83)
Horn Lake quadrangle - TopoZone Pro elevation display
 Projection is UTM Zone 15 NAD83 Datum

M=0.137
 G=1.699

NEPCO Monitoring
Well Design
Southern Project.
5-31-02



DRAWING SUBMITTALS
 114. NO REV. PROCEED.
 115. NO CORRECTIVE.
 116. RESUBMIT FOR APPROVAL.
 117. NO EXCEPTIONS TAKEN, ACCEPTED AS CERTIFIED, NO RESUBMITAL REQUIRED.
 THIS DRAWING HAS BEEN CHECKED FOR GENERAL COMPLIANCE WITH THE DESIGN
 CODES OF THE PROJECT AND THE CONTRACT DOCUMENTS. THE DESIGNER
 IS NOT RESPONSIBLE FOR THE CONSTRUCTION OF THE WELL OR THE
 MATERIALS AND SERVICES PROVIDED. THE SUPPLIER IS ALSO RESPONSIBLE FOR
 OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE ACTION SHOWN ABOVE
 DOES NOT RELIEVE THE SUPPLIER OF HIS RESPONSIBILITY.
 NEPCO
 Date: 6-6-02

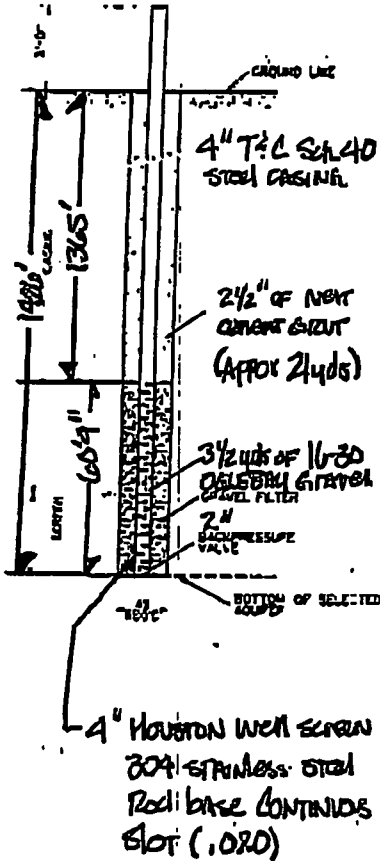
WELL SCHEMATIC
 AND WELL LOCATION
 MUST BE APPROVED
 IN WRITING BY
 STATE OF
 MISSISSIPPI
 DEQ OFFICE
 OF LAND AND
 WATER RESOURCES

TITLE:
 ONE PIECE MONITORING
 WELL SCHEMATIC
 DWG #: MONITORINGWELL SUBMITTAL

REC
 NI
 RECORDS I
 JUN 04 2002
 5160040
 RG. #
 SPEC # W1270

ALL MEASUREMENTS TAKEN FROM (GROUND) (TOP OF CASING) (TOP OF BASE PLATE)

Drawing of the Well



STARTED WELL 5/23 2002 AND COMPLETED 6/13/ 2002
 TOTAL DEPTH 1426' ELEVATION _____ STATIC WATER LEVEL 131'
 LENGTH SURFACE CASING 45' SIZE 12" THICKNESS 2.50
 CEMENTED WITH 25 SACKS CEMENT TYPE PACKER N/A
 LENGTH WELL CASING 1365' SIZE 4" WEIGHT SMC40
 CEMENTED WITH 21 yds SACKS CEMENT TYPE PACKER N/A
 INNER CASING LENGTH N/A SIZE N/A WEIGHT N/A
 WITH N/A X N/A GUIDES LOCATED N/A TYPE BACKOFF N/A
 LEAD SEAL N/A BACKPRESSURE VALVE 2" GUIDE
 WELL STRAINER MAKE HOUSTON SS SIZE 4" LENGTH 60' 4" OPENING 20
 SLOT
 TYPE MATERIAL 304 STAINLESS WITH WR X WR CONNECTIONS
 SIZE HOLE DRILLED FOR SURFACE CASING 17" WITH ROCK ROLLER
 SIZE HOLE DRILLED FOR WELL CASING 2 7/8" WITH ROCK ROLLER
 SIZE HOLE DRILLED FOR STRAINER 2 7/8" WITH ROCK ROLLER
 YARDS OF GRAVEL USED 3 1/2 HOW PLACED GRAVEL LINE
 HOW WELL WAS DEVELOPED AIR DEVELOPMENT
 NOTES: Monitoring Well

RIG USED GD7500 DRILLER Lynwood Hatcock
 SERIAL NUMBER _____ MAKE _____ FOUNDATION _____
 LENGTH COLUMN _____ SIZE _____ TYPE _____ • 10 LENGTHS
 BOWL SIZE _____ TYPE _____ STAGES _____ MATERIAL IMPELLOR _____
 MATERIAL BOWL _____ WITH _____ PORTS AND _____ SHAFT
 SUCTION SIZE _____ LENGTH _____ SUCTION STRAINER _____
 IS PUMP SEALED? HOW _____ WHERE _____ WITH WHAT _____
 LUBRICATOR TYPE _____ SIZE _____ VOLTAGE _____
 LENGTH OF AIRLINE _____ SIZE _____ VOLTAGE _____
 AIR RELEASE VALVE TYPE _____ SIZE _____
 SIZE SURFACE DISCHARGE _____ TYPE _____ DAYTON COUPLING _____
 PRESSURE GAUGE _____ SPEED _____
 NOTES: _____

RIG USED TO SET PUMP _____ INSTALLER _____
 DATE PUMP INSTALLED _____ 20 _____ DATE IN OPERATION _____ 20 _____

MAKE _____ HP _____ FRAME _____
 PHASE _____ CYCLE _____ VOLT 220 _____
 SPEED _____ MODEL _____ SERIAL NUMBER _____
 TOP BEARING _____ BOTTOM BEARING _____ RATCHET _____
 STARTER _____ PRESSURE SWITCH _____ FLOAT _____

MAKE _____ MODEL _____ SIZE _____ RATIO _____ NO. _____
 SIZE PULLEY _____ TYPE MOTOR FRAME _____

MAKE _____ MODEL _____ HP _____ SERIAL NUMBER _____
 SPEED _____ SIZE PULLEY _____ FOUNDATION _____
 TYPE FUEL TANK _____ MAKE MAG. _____ NO. _____
 MAKE STARTER _____ NO. _____ TYPE FUEL _____
 MAKE FLEXIBLE SHAFT _____ SIZE _____
 LENGTH _____ BELT LENGTH _____

PURPOSE FOR WHICH THIS WATER IS USED Monitoring Well
 TEMPERATURE _____ IS WATER CLEAR _____ CAPACITY _____
 SAND _____ HARDNESS _____ PH _____ IRON _____ NACL _____
 TYPE TREATMENT USED _____
 IS THERE A DERRICK OVER THE WELL _____ HEIGHT _____ TYPE _____
 CAN TRUCK OR RIG EASILY GET TO WELL _____
 PUMP HOUSE _____ SIZE HATCH _____

CONTRACT NO. 57-5194

OUR WELL NO. 7 THEIR WELL NO. 7 IN TEST HOLE 1

LOCATION OF THE WELL Southaven, MS

INSTALLED FOR NEPCO Power Plant

10-10-10

[The following text is extremely faint and largely illegible. It appears to be a list or a series of entries, possibly related to a survey or inventory. Some faint words and numbers are visible, but they cannot be accurately transcribed.]

B77

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
Office of Land and Water Resources

P. O. Box 1
Jackson, MS 39289-
WATER WELL DRILLERS

B-177
COUNTY WELL LOCATED
Desoto
WELL NUMBER **MONITORING** CODED
WELL N^o **7**
DATE WELL COMPLETED
6-13-02

PERMIT NUMBER
NAME OF DRILLING FIRM
Layne Central div of
Layne Christensen

NAME & MAILING ADDRESS OF LANDOWNER
Southaven Power LLC Cogeneration
9405 Arrowpoint Blvd.
Charlotte, NC 28273-8110
LATITUDE: **34°59'38"N**
LONGITUDE: **90°02'27"W**
WELL LOCATION: SEC **15** TOWNSHIP **1 N** RANGE **8 E**
DISTANCE **2** Miles **WEST** of **High 51**
OTHER LANDMARK
State line: High 51/NECO power
WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc.
Industrial water supply

PUMP DATA
PUMP TYPE (Circle One):
Submersible, Turbine, Jet, Flowing!
Other (Describe) **MONITORING well ON**
POWER TYPE (Circle One):
Electric, Tractor, Diesel, Gasoline, But
Other (Describe) _____ H/P _____
Pump Capacity (GPM) No. of Stages Setting Depth

PUMP TEST
Well yielded **N/A** GPM w
a drawdown of _____
after _____ hours of pump:

WELL DATA
Well Depth **1426'** Casing Diameter (In.) **4"** Casing Length (Ft.) **1305'**
Type of Casing **Std 40** Hole Depth **1426'** Depth to Static Water Level **131'**
TYPE OF COMPLETION: (Circle One or More):
 Gravel Packed, Underreamed, Telescoped,
 Natural Development, Open Hole, Other
(Describe) _____

LOG DATA
TYPE OF LOG RUN (Circle One): No Log F
Electric, Gamma Ray, Density, Sonic, Neutr
Other (Describe) _____
Name of Organization Running Log _____

WELL GROUTED TO A DEPTH OF **1365'** FEET
Type Grout (circle one): Cement, Bentonite, or Mix

GEOLOGIC DATA (Office Use Only)
Surface Elev. Geologic Unit Unit Thickness Depth to T
Subs. SWL Date Analysis Aquifer Te

SCREEN DATA
Diameter - inches **4"** Length - Feet **60'** Slot Size - inches **20 slot**
Screen Type **Stainless Steel WW** Depth to Bottom - Feet **1426'**

Driller's Remarks _____
Top of Lap Pipe or Reduction in Casing
FEET IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	T
(see attached)					

RECEIVED
SEP 3 2002
BY: ULWR

IF MORE SPACE IS NEEDED, USE BACK

Water level data

This area for location map and notes



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

WELL SCHEDULE

FIPS: 33

WELL: B77

LOG NO.: _____

Recorded by: PPhillips Data Source: Driller's log Date: 12/3/03

County: DeSoto Permit No.: _____ DOH No.: _____

Quad: Horn Lake Elevation: 275

1/4: SW 1/4: NE 1/4: SW 1/4: SW Sec.: 15 T: 15 R: 8W

Plotted on quad?: _____ In field? _____ From drillers log? _____ From permit? _____

Latitude: _____ Longitude: _____ GPS? From Driller From Quad? _____

Primary aquifer: WLCX L Secondary aquifer: _____

Use: Ob Well status: _____ Local well name: _____

Owner: Southhaven Power LLC

Date completed: 6/13/02 Driller: Layne Central Well depth: 1426 Hole Depth: 1432

Pump type: _____ Power type: _____ Pump capacity: _____ HP: _____

Casing interval: 0-1365 Casing length: 1365 Casing diameter: 4" Casing type: S

Casing interval: _____ Casing length: _____ Casing diameter: _____ Casing type: _____

Screen interval: 1366-1426 Screen length: 60' Screen diameter: 4" Screen type: SS

Screen interval: _____ Screen length: _____ Screen diameter: _____ Screen type: _____

Type of logs: _____ Log interval: _____

Initial water level: 131' Date: 6/13/02 M.P. description: _____

Water Quality Data? _____ Source: _____ Reliability: _____

Water Level Data? _____ Source: _____ Reliability: _____

Pump Test Data? _____ Source: _____ Reliability: _____

Water Use Data? _____ Source: _____ Reliability: _____

