

Bolden #2
 #78
 GW15635

COUNTY WELL LOCATED
Benton

WELL NUMBER
Bolden #2

CODED

H-78

DATE WELL COMPLETED
7/01/01

PERMIT NUMBER
15635
MS - GW - ~~15635~~

NAME OF DRILLING FIRM
Layne Central Co

Memphis, TN

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
 Office of Land and Water Resources

P. O. Box 10631
 Jackson, MS 39289-0631
 WATER WELL DRILLERS LOG

NAME & MAILING ADDRESS OF LANDOWNER
Magnolia Energy
Two Houston Center
909 Fannin, Suite 2222

Houston, TX 77010

WELL LOCATION SEC TOWNSHIP RANGE
 16 3 **N** 1 **E**
 S W

DISTANCE _____ Miles _____ of _____
 DIRECTION NEAREST TOWN

OTHER LANDMARK

WELL PURPOSE Home Irrigation Municipal Industrial Fish Pond etc

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 _____ FT.

PUMP TEST

Well yielded 500 GPM with
 a drawdown of N/A ft.
 after N/A hours of pumping

WELL DATA

Well Depth 400'	Casing Diameter (in) 12"	Casing Length (Ft.) 315'
Type of Casing Steel	Hole Depth 400'	Depth to Static Water Level 164'

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

WELL GROUTED TO A DEPTH OF 50 FEET
 Type Grout (circle one): Cement, Bentonite, or Mix

LOG DATA

TYPE OF LOG RUN (Circle One):
 Electric. Gamma Ray. Density. Sonic. Neutron.
 Other (Describe) _____

Name of Organization Running Log
Layne Central Co

SCREEN DATA

Diameter - Inches 12"	Length - Feet 85'	Slot Size - Inches .040"
Screen Type continuous slot	Depth to Bottom - Feet 400'	

GEOLOGIC DATA (Office Use Only)

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

Driller's Remarks

one piece 12" well with 50'
surface casing cemented
 Top of Lap Pipe or Reduction in Casing

FEET IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE

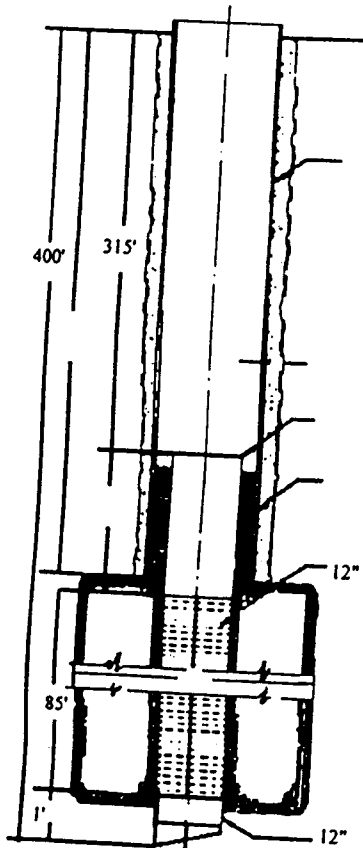
DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	
			FROM	TO
Please see attached				

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IF MORE SPACE IS NEEDED USE BACK

ALL MEASUREMENTS TAKEN FROM (GROUND)

Drawing of the Well



WELL DATA

Started Well 6-25-01 20 01 And Completed 7-01 20 01
 Total Depth 400' Elevation _____ Static Water Level 164'
 Length Surface Casing 26' Size 50" Thickness .375
 Cemented with 4 pallet portland Cement Type Packer _____
 Length Well Casing 315' Size 12" Weight _____
 Cemented with _____ Cement Type Packer _____
 Inner Casing Length _____ Size _____ Weight _____
 With Stop & screen Guides Located 10' & 5' Type Backoff none
 Lead Seal _____ BackPressure Valve NONE Length _____ Well Strainer _____
 Make HOUSTON WW Size 12" Length 85' Opening 0.040
 Type Material SS With Welded Connections _____
 Size Hole Drilled for Surface Casing 32" With Drag _____
 Size Hole Drilled for Well Casing 23" With Drag _____
 Size Hole Drilled for Strainer _____ With _____ Yards of Gravel Used 35 super sack
 How Placed Gravel LINE 8-16 How was well developed Air Agitation
 Foundation Installed No Notes: Gravel well 5' to top cement plug on top
 Depth Feeling Line Rods _____ Notes: _____ Rig Used Jed A
 Driller Barry Crook Supt John Oswalt

PUMP RECORD

Serial Number _____ Make _____ Foundation _____
 Length Column _____ Size _____ Type _____ @ _____ Lengths _____
 Bowl Size _____ Type _____ Stages _____ Material _____ Impeller _____
 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 _____ Type Material _____
 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

MOTOR

Make _____ HP _____ Frame _____ Phase _____ Cycle _____ Volt _____
 Speed _____ Model _____ Serial Number _____
 Top Bearing _____ Bottom Bearing _____ Ratchet _____
 Starter _____ Pressure Switch _____ Float _____

GEAR

Make _____ Model _____ HP _____ Serial Number _____
 Size Pulley _____ Type Motor Frame _____

ENGINE

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 _____

GENERAL

Purpose for which this water is used _____
 Temperature _____ Is Water Clear Yes Capacity _____
 Sand No Hardness _____ PH _____ Iron _____ NaCl _____
 Type Treatment used _____
 Is there a derrick over the well _____ Height _____ Type _____
 Can a Truck or Rig easily get to the well _____
 Pump House _____ Size Hatch _____

CONTRACT NO 57 - 5094

Our Well No. 2 Their Well No. _____ In Test Hole No. 2

Location of the Well Bolden #2

Installed For Magnolia Energy

Address City Ashland County Benton State MS

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Year 2001