

Coded By D  
Checked By 06-30-93  
Entered By FA  
Date 6/93

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
MISSISSIPPI DISTRICT

E-Log No. 153  
County GREENE  
Agency

Well No. R31  
Melan Quad

WELL RECORD

Agency Code <u>U S G S</u>	Site Id <u>1313311710181848112011</u>	Project No. <u>5</u>
Station Name <u>12 R10311 LEAF W IA</u>	Latitude <u>9 31 133 117</u>	Longitude <u>10 08 848 112</u>
Lat/Long Ac. <u>11 S F T M</u>	Disc <u>6-29</u>	State <u>7-28</u>
County <u>8-0411</u>	NE Land Net <u>13 NW NW S 16 T 10 N R 018 W 2</u>	
Location Map <u>16 MS LA TN</u>	Altitude <u>16 93</u>	Met/Meas <u>17 A U M</u>
Accuracy <u>18 15</u>	Hydrologic Unit <u>20 031171010151</u>	
Agency Use <u>803 A I (A)</u>	Date Inventoried <u>711</u>	Station Type <u>4</u>
Data Type <u>804</u>		

Instr. <u>805</u>	Remarks <u>806</u>	Relia. <u>3 C L M U</u>	<u>2# X</u>
Date of Construction <u>21 12 / 10 9 / 11 9 9 2</u>	Well Use <u>23 W</u>	Water Use <u>24 P</u>	Primary Aquifer <u>714 122 mpcin</u>
Hole Depth <u>27 16 11 2</u>			
Well Depth <u>29 16 2</u>	Water Level <u>30</u>	Water Level Date <u>31</u>	Method <u>34</u>
Status <u>37</u>	Source <u>33 D</u>		

CONSTRUCTION DATA		Construction Date <u>60 01 / 28 / 11 9 9 3</u>	Contractor <u>63 01 6 H</u>	Name <u>Layne</u>	Method <u>65 H</u>	Finish <u>66 G</u>
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CONSTRUCTION CASING DATA			Top/Casing <u>77 11 P</u>	Bot/Casing <u>78 14 4 2</u>	Diameter <u>79 18</u>
R=76	T=A	725#1	59#1		
R=76	T=A	725#2	59#1	77 14 0 2	78 14 4 2
					79 14

CONSTRUCTION OPENINGS DATA						
Top/Depth <u>83 14 4 2</u>	Bot/Depth <u>84 14 6 2</u>	Diameter <u>87 14</u>	Type <u>85 S</u>	Length <u>89</u>	Width <u>88 12 10</u>	
R=82	T=A	726#1	59#1			
R=82	T=A	726#2	59#1	83	84	
					87	
					85	
					89	
					88	

CONSTRUCTION LIFT DATA			Lift Type <u>43 S</u>	Date <u>38 01 / 28 / 11 9 9 3</u>	Intake <u>44 1 P 1</u>
R=42	T=A	254#1			
Power <u>45 F</u>	H.P. <u>46 1 1 5</u>	Serial No. <u>49</u>			

MISCELLANEOUS OWNER DATA			Date of Ownership <u>159 01 / 28 / 11 9 9 3</u>	Owner Name <u>161 LEAF W IA</u>
R=158	T=A	718#1		

MISCELLANEOUS OTHER ID DATA			E-Log No. <u>190 153</u>	Assigner <u>191 M I S S I S S I</u>
R=199	T=A	736#1		

Landowner is Greene County School Board

COUNTY WELL LOCATED  
**GREENE**

WELL NUMBER **2** CODING

**NR 31**

DATE WELL COMPLETED  
**01/28/93**

PERMIT NUMBER **13970**

NAME OF DRILLING FIRM  
**Layne-Central Co., ALA**

**LAYNE, INC.**

NAME & MAILING ADDRESS OF LANDOWNER  
**LEAF Water Association**

**P.O. Box 10-B**

**McLain, MS. 39456**

WELL LOCATION: SEC TOWNSHIP RANGE  
**NE / NW 16 2 N 8 W**

DISTANCE DIRECTION NEAREST TOWN  
**4 Miles South of McLain**

OTHER LANDMARK  
**Highway 57 South**

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

PUMP DATA

PUMP TYPE (Circle One):  
 Submersible,  Jet  Flowing Well,  
Other (Describe) \_\_\_\_\_

POWER TYPE (Circle One):  
 Electric,  Tractor,  Diesel,  Gasoline,  Butane,  
Other (Describe) \_\_\_\_\_ H/P **15**

Pump Capacity (GPM) No. of Stages Setting Depth  
**125 13 97** FT.

PUMP TEST  
Well yielded **125** GPM with  
a drawdown of **59** ft.  
after **24** hours of pumping

WELL DATA

Well Depth <b>467'</b>	Casing Diameter (In.) <b>8"</b>	Casing Length (Ft.) <b>442'</b>
Type of Casing <b>STEEL</b>	Hole Depth <b>611'</b>	Depth to Static Water Level <b>Flowing</b>

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

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

LOG DATA

TYPE OF LOG RUN (Circle One):  
 Electric,  Gamma Ray,  Density,  Sonic,  Neutron,  
Other (Describe) \_\_\_\_\_

Name of Organization Running Log  
**Layne-Central Co.**

GEOLOGIC DATA (Office Use Only)

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

SCREEN DATA

Diameter - Inches <b>4"</b>	Length - Feet <b>20'</b>	Slot Size - Inches <b>20</b>
Screen Type <b>S/S JOHNSON</b>	Depth to Bottom - Feet <b>5'</b>	

Driller's Remarks

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
<b>TOP SOIL</b>	<b>0'</b>	<b>1'</b>			
<b>Yellow Clay</b>	<b>1'</b>	<b>10'</b>			
<b>RED + White Clay</b>	<b>10'</b>	<b>17'</b>			
<b>White + RED Sand + Gravel</b>	<b>17'</b>	<b>60'</b>			
<b>Blue Clay</b>	<b>60'</b>	<b>85'</b>			
<b>SAND + Clay Stk.</b>	<b>85'</b>	<b>166'</b>			
<b>FINE SAND</b>	<b>166'</b>	<b>490'</b>			
<b>COARSE SAND</b>	<b>490'</b>	<b>570'</b>			
<b>SAND + Clay Stk.</b>	<b>570'</b>	<b>611'</b>			

IF MORE SPACE IS NEEDED, USE BACK

Issued: <u>3/10/92</u>	Expires: <u>3/10/02</u>	Fee Paid: <input checked="" type="checkbox"/>	Permit No. <u>GW-13970</u>
Lat. <u>31° 31' 17"</u>	Long. <u>88° 48' 11"</u>	Elev. <u>85</u>	USGS No.
Quad <u>McLain</u>	Dist.		Basin No. <u>03170005</u>
STAC			Dam Inv. No.
			Dam appl. No.

**RECEIVED**  
JAN 30 1992

Dept. of Natural Resources, Bureau of Land and Water Resources, P.O. Box 10631, Jackson, MS 39209-0631  
**APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW FOR BENEFICIAL USE  
THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI**

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:**  
Greene County School Board 64-6000-392  
(Name) (S/S or Tax ID No.)  
P.O. Box 1329  
(Address)  
Leakesville MS 39450 (601) 394-2364  
(City) (State and Zip) (Telephone Number)

**APPLICANT, AGENT, OR LESSEE (If different from Landowner):**  
Leaf Water Assn. Inc. 64-0792340  
(Name) (S/S or Tax ID No.)  
P.O. Box 10 B  
(Address)  
Leaf MS 39450 (601) 753-2585  
(City) (State and Zip) (Telephone Number)

**Location of diversion/withdrawal point (A suitable location map must accompany this application):**  
NE 1/4 of the NW 1/4 of Section 16, Township 1N, Range 8W, County Greene

**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) 0.06 million gallons per day at a maximum rate of 125 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) April, 19 92 and will be completed by (date) Oct, 19 92.  
Water will be used from (month) January through December 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.

**SECTION A (to be completed if application is for surface water source) N/R**

- 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.

(Continued on back)

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

1. Source of water is Miocene aquifer.  
 2. Description of proposed water well:  
 (a) DEPTH OF WELL: 200' ± feet. DRILLER (name): unknown (to be bid)  
 (b) SURFACE CASING: Length: unknown feet. Diameter: 10 inches. Type: steel  
 (c) SCREEN: Length: 20 feet. Diameter: 6 inches. Type: s.s. Wire Wrapped  
 (d) PUMP: Type: Line shaft Size: six Capacity: 125 gallons per minute.  
 Number of stages: unknown Setting depth: unknown feet.  
 (e) POWER UNIT: Type: Electric Motor Size: unknown horsepower.  
 TYPE OF COMPLETION: Gravel Pack

**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 450. (b) The number of connections/customers is 150.  
 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?  

0.20 MGD	1997	0.22	2002	0.24	2005	0.26 MGD	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: This is a proposed well. Accurate description not possible until completed, if completed.

List below the person to be contacted for additional information if required:  
 (Name) \_\_\_\_\_  
 (Address) \_\_\_\_\_  
 (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.

[Signature]  
 (Signature)

Subscribed and sworn to before me this 3 day of February, 1992 at McLain  
 County of Greene. My commission expires \_\_\_\_\_  
[Signature] Notary Public

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Stewart/Everett DATE: 6/10/98

UNIT DEQ #: \_\_\_\_\_ FILE #: A061020A

HEALTH DEPT. #: 210006-02 (was 3-02) ELEV. 98'

USGS #: R-31 OLWR #: GW-13970

OWNER: Leaf Water Assoc. South

LOCATION: NENWNW S 16 T 1N R 8W COUNTY: Thorne

LOCATION DESCRIPTION:  Hwy 57 @ 4 mi S/W McLean

CASING DIA: \_\_\_\_\_ PUMP TYPE & SIZE: \_\_\_\_\_

GPS FIELD LOCATION: LAT. 31°03.299' LONG. 88°48.160'

GPS CORRECTED LOCATION: LAT. 31.055101 LONG. 88.802611

REMARKS: McLean Quad

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INSULIN QUAD  
MAP

FOREST



Royce

BROWN

Cotton Patch  
Lakes

My Nebo  
Cem

My Nebo  
Ch III

Daughanil  
Dead Lake

Branch

McMillan  
Creek

Swain  
Lake

Makay  
Lake

Davis

GW-1768

Black  
Lake

Horseshoe  
Lake

