

Health Dept # 0070002-02 Calhoun City Quad

CB
8/6/92
118.00 Coded By
10.20 Checked By
107.80 Entered By
Date

GW12898
DOH # 0070002-02

Well No. K17

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. 85
County CALHOUN
Agency

GPSd 12/4/96 PP/DH

WELL RECORD

MP=2.00
105.80

Agency Code: U S G I S Site Id: 1335125089211060111 Project No. 54111111111111

Station Name: 12 K10171 B116 CREEK W IA Latitude: 9 335125 Longitude: 10 018921106

Lat/Long Ac.: 11 S F T M Dist: 6=28 State: 7=28 County: 8 01131 SW and Net: 13 N E S E S I 116 T 23 N R 09 E

Location Map: 14 CALHOUN CITY Altitude: 16 215 Met/Meas: 17 A L M Accuracy: 18 15 Hydrologic Unit: 20 0810302105

15 ft

112 D

Agency Use: 803 A I O Date Inventoried: 711 12 / 01 / 119901 Station Type: 4 Data Type: 804

Instru.: 805 Remarks: 806 Relia.: 3 C L M U 2=W X

Date of Construction: 21 Well Use: 23 Water Use: 24 Primary Aquifer: 714 21160 R D Hole Depth: 27 11893

Well Depth: 28 11886 Water Level: 30 Water Level Date: 31 Method: 34 Status: 37 Source: 33

CONSTRUCTION DATA

Construction Date: 60 03 / 26 / 119911 Contractor: 63 064 Name: Calhoun Method: 65 H Finish: 66

CONSTRUCTION CASING DATA

Top/Casing: 77 1110 Bot/Casing: 78 11856 Diameter: 79 110

Top/Casing: 77 11805 Bot/Casing: 78 11856 Diameter: 79 116

CONSTRUCTION OPENINGS DATA

Top/Depth: 83 11856 Bot/Depth: 84 11886 Diameter: 87 116 Type: 85 SS Length: 89 130 Width: 88

Top/Depth: 83 Bot/Depth: 84 Diameter: 87 Type: 85 Length: 89 Width: 88

CONSTRUCTION LIFT DATA

Lift Type: 43 T Date: 38 Intake: 44

Power: 45 H.P.: 46 125 Serial No.: 49

Power: E

MISCELLANEOUS OWNER DATA

Date of Ownership: 159 Owner Name: 161 BIG CREEK W IA

MISCELLANEOUS OTHER ID DATA

E-Log No.: 190 085 Assigner: 191 M I S S I D I S T

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 199# E *	Beg. Depth 200# *	End Depth 201# *
R=198	T=A	739#1	Log Type 199# *	Beg. Depth 200# *	End Depth 201# *

MISCELLANEOUS NETWORK DATA *106 = QW WL WD **

R=114	T=A	730#1	Beg. Year 115# *	End Year 116# *	Agency Source 120# A	Freq. 117# *
R=121	T=A	730#2	Beg. Year 115# *	End Year 116# *	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# / / *	Type 703# P F	Discharge 150# *	Sp. Capacity 272# *
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GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 91# *	Depth Bot. 92# *	Unit Id 93# *	304# P
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100# *	103# *
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N ↑

Test well 1891'
6x4 20' screened

SWL=107 75gpm

pH=8.3

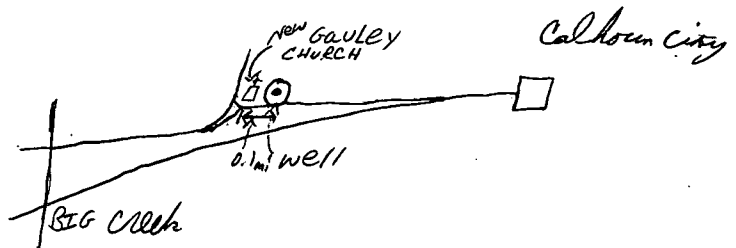
Ir=.33

CL=315

6-18-91

couldn't get good WL

ENGINEER SAID WL WAS 103' WITH ELECTRODE



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 Calhoun	
WELL NUMBER K17	CODED <input checked="" type="checkbox"/>
DATE WELL COMPLETED 3-26-91	

PERMIT NUMBER 22-4684
NAME OF DRILLING FIRM Layne - Central
Cleveland, MS

NAME & MAILING ADDRESS OF LANDOWNER Big Creek Water Assn.		
P.O. Box 2025		
Big Creek, MS 38914		
WELL LOCATION: SEC	TOWNSHIP	RANGE
16	23	8
DISTANCE		DIRECTION
.2 Miles		E of
OTHER LANDMARK New Galey Church		
WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc. Rural Public Supply		

PUMP DATA		
PUMP TYPE (Circle One): Submersible, Turbine , Jet, Flowing Well, Other (Describe) _____		
POWER TYPE (Circle One): Electric , Tractor, Diesel, Gasoline, Butane, Other (Describe) _____ H/P 25		
Pump Capacity (GPM) 200	No. of Stages 11	Setting Depth 230 FT.
PUMP TEST Well yielded Not Tested GPM with a drawdown of _____ ft. after _____ hours of pumping		

WELL DATA		
Well Depth 1890'	Casing Diameter (In.) 10	Casing Length (Ft.) 1856
Type of Casing st st	Hole Depth 1893'	Depth to Static Water Level 103'
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 1805 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 Geophysical	

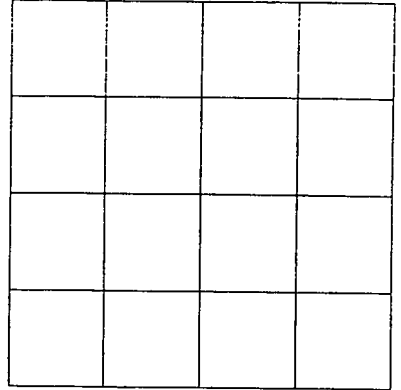
SCREEN DATA		
Diameter - Inches 6	Length - Feet 29' 8"	Slot Size - Inches .020
Screen Type st steel	Depth to Bottom - Feet 4	

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
Clay - STKS of Iron Ore	0	30	Rock	460	461
Clay	30	55	Sandy Clay	461	480
Rock	55	56	Hard Clay	480	506
Clay	56	70	Clay + Hard Shale STKS	506	795
Sand	70	80	Clay + Sand STKS	795	827
Clay	80	130	Clay	827	925
Shale + STKS. of Sand	130	200	Limestone - STKS of Shale	925	1063
Rock	200	201	Clay	1063	1340
Shale	201	239	Shale + limestone STKS	1340	1490
Blue Clay	239	450	Sandy Shale	1490	1527
Hard Clay	450	460	IF MORE SPACE IS NEEDED, USE BACK		

If well telescopes please
sketch and show depths.

GROUND LEVEL



SECTION _____

Please indicate well location X.

ADDITIONAL INFORMATION

Shale	1527	1612
Sandy Shale	1612	1719
Hard Shale + Rock strk	1719	1755
Sandy Shale	1755	1782
Shale + Sand	1782	1828
Hard Shale	1828	1861
Sand + Small Gravel	1861	1893

If more than one screen,
show location of each on sketch.

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

1. Source of water is Gordo aquifer.
2. Description of proposed water well:
- (a) DEPTH OF WELL: 2000 feet. DRILLER (name): _____
- (b) SURFACE CASING: Length: 1960 feet. Diameter: 10 inches. Type: Steel
- (c) SCREEN: Length: 40 feet. Diameter: 6 inches. Type: S. S. Wire Wrapper
- (d) PUMP: Type: Turbine. Size: 8". Capacity: 200 gallons per minute.
 Number of stages: unknown Setting depth: unknown feet.
- (e) POWER UNIT: Type: Electric. Size: 40 (Estimated) horsepower.
- (f) 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 _____. (b) The number of connections/customers is 200.
 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?

<u>100,000 gal</u> (Volume)	<u>2000</u> (Year)	<u>120,000 gal</u> (Volume)	<u>2005</u> (Year)	<u>140,000 gal</u> (Volume)	<u>2010</u> (Year)	<u>160,000 gal</u> (Volume)	<u>2015</u> (Year)
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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: _____

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Phillips/Hardin DATE: 12/4/96

UNIT DEQ #: _____ FILE #: A120415A

HEALTH DEPT. #: 070002-02 (No tag) ELEV. 270

USGS #: K17 OLWR #: Gw12898

OWNER: Big Creek W.A. QUAD: Calhoun City

LOCATION: SE/SE S 16 T 23N R 9E COUNTY: Calhoun

LOCATION DESCRIPTION: On county rd 308; east of New Gouley
Baptist Church (on county rd 309); ^{2.5 miles west} of Calhoun City
square

CASING DIA: _____ PUMP TYPE & SIZE: Turbine/25 HP

GPS FIELD LOCATION: LAT. 33° 51.365' LONG. 89° 21.225'

GPS CORRECTED LOCATION: LAT. 33.85647192 LONG. 89.35474058

REMARKS: Measured 33' south of well



3740
3745
3750
3755
3760
3765
3770
3775
3780
3785
3790
3795
3800

75000000