

Recorded by J.A. Callahan

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT
WELL RECORD

4/77

Well No. A12

Date 1/5/77

E-Log No. #13

County DeSoto

LAKE CORMORANT QUAD
29A

Site ID 3 4 5 7 2 8 0 9 0 0 9 1 8 0 1 R=0* T=AM* 2=W*

GEN. SITE DATA

Data reliab. 3=CU* Report. agency 4=USGS* Dist. 6=28* 7=28* Co. 8=0 3 3*

Lat. Long. 9=3 4 5 7 2 8* 10=0 9 0 0 9 1 8* Well No. 12=A 0 1 2*

Location 13=N W 5 E S 3 3 T 0 1 S R 0 9 W* Alt. 16=2 1 0*

Hyd. Unit (OWDC) 20= * Date 21=0 8 1 0 0 1 1 9 6 5*

Well use 23=W* Water use 24=P* Hole depth 27=1 6 1 4* Well depth 28=1 5 0 0*

WL 30=2 4* Date 31=0 8 1 0 0 1 1 9 6 5* Source 33=S*

Status 273= *

OWNER

R=158* T=AM* Date 159#0 8 1 0 0 1 1 9 6 5* Owner No. _____

Owner 161=W A L L S W A*

FIELD QW

R=192* T=AM* Date 193# 1* Temp. 196#00010* 197= * *

R=192* T=AM* Date 193# 0 3 1 0 3 1 1 9 7 1* Cond. 196#00095* 197=2 6 0*

R=192* T=AM* Date 193# 1* pH 196#00400* 197= * *

CONSTR.

R=58* T=AM* 59#1* Date 60=0 8 1 0 0 1 1 9 6 5* Remarks _____

Drlg. 63=0 0 9* Name _____ Method 65=H* Finish 66=S*

Carless Well Supply

CASING

R=76* T=AM* 59#1* Top csgn. 77# 0* Bot. csgn. 78=1 4 4 0* Diam. 79# 8*

R=76* T=AM* 59#1* Top csgn. 77# * Bot. csgn. 78= * Diam. 79# *

OPENINGS

R=82* T=AM* 59#1* Top 83# 1 4 4 0* Bottom 84=1 5 0 0*

Type 85=S* Diam. 87= 6* Size 88= * *

R=82* T=AM* 59#1* Top 83# * Bottom 84= *

Type 85= * Diam. 87= * Size 88= * *

YIELD

R= 134 146* T=AM* 147# 1* Q 150=3 5 0* Q/S 272= * *

LIFT

R=42* T= (A) M * Lift type 43# T * Intake 44= * Power type 45= E *

Date 38= 08/00/1965 * H.P. 46= 20. *

LOGS

R=198* T= (A) M * Log 199# D * Top 200= 0. * Bot 201= 150.0. *

R=198* T= (A) M * Log 199# E * Top 200= 146. * Bot 201= 1614. *

R=189* T= (A) M * E Log No. 190# 013. * 191= M I S S D I S T *

ANAL.

R=114* T= (A) M * Year 115# 1971 * Type 120= B *

R=90* T= (A) M * 256# 1 * Top 91= 336. * Bot 92= * *

Unit ID 93= 124WLCXL * Name of Unit Lower Wilcox

R=90* T= A M * 256# 1 * Top 91= * Bot 92= * *

Unit ID 93= * Name of Unit

AQUIFERS

R=98* T= A M * 99# 1 * Unit tested 100= * *

R=105* T= A M * 99# 1 * Test No. 106# * *

107= * Transmissivity (gal/d)/ft

108= * Hydraul. cond. (gal/d)/ft²

110= * Storage coeff. Boundaries

HYDRAULICS

Description & Color of Material Sand, Clay, and Grav. Shell, etc.	Start Foot	Depth Foot
Top soil	2	2
Red Sand	26	28
Coarse Grey Sand & Gravel	92	120
Tough Clay	82	202
Clay	58	258
Sandy Clay	10	268
Sand (Fine White)	31	299
Sandy Clay	6	305
Sand (White)	55	360
Sand with Lignite	34	394
Sandy Clay	7	401
Sand	29	430
Sand w/ Clay Streaks	39	469
Sandy Clay w/ Sand Strks	11	480
Coarse Sand	60	540
Coarse Sand w/ Fine Gravel	48	588
Sandy Clay	125	713
Clay	17	730
Sandy Clay	15	745
Sand Clay w/ Sand Strks	72	817
Clay	51	868
Sandy Clay w/ Sand Strks	87	955
Sand and Sandy Clay	45	1040
Clay	17	1057
Clay (Tough)	60	1117
Clay	43	1160
Sandy Clay	42	1182
Clay	106	1288
Sandy Clay	7	1295
Clay	5	1300
Sandy Clay	144	1444
Sand (Fine)	39	1474

(See Reverse Side)

A12
12-22-65

WATER WELL DRILLERS LOG

CODED *info*

Date: Dec. 22, 1965, Driller: Carlson Well Supply County Shelby
(Name)

(1) Owner of Land: <u>Town of Walls</u> (Name) <u>Walls, Mississippi</u> (Address)		Description & Color of Materials Sand, Clay, Red Clay, Shell, etc.	Thick- ness Feet	Depth Feet
		(2) Location: <u>1/4</u> , <u>1/4</u> , Sec. <u>34</u> T <u>1</u> R <u>7</u> <u> </u> miles <u> </u> of <u> </u> (distance) (direction) (Nearest Town)		Top soil
(3) Topography: <u> </u> (Hilly) (Flat) (Level)		Red Sand	26	28
(4) Purpose of Well: <u>Municipal</u> (Domestic Irrigation Municipal, Industrial, Other)		Coarse Grey Sand & Gravel	92	120
Information upon completion of well: (1) Diameter <u>8"</u> inches. (2) Total Depth <u>1497'-6"</u> feet. (3) Water Level <u>24'</u> feet below top of ground. (4) Cased to <u>1440'</u> , Size <u>8"</u> (5) Screen: Size <u>6"</u> , Length <u>52'-6"</u> (6) Were any formations sealed against pollution? <u>X</u> yes, <u> </u> no. If YES depth of formation <u>Casing Cemented</u> Why <u> </u> Drillers Remarks: <u> </u>		Tough Clay	82	202
		Clay	56	258
		Sandy Clay	10	268
		Sand (Fine Shite)	31	299
		Sandy Clay	6	305
		Sand (White)	55	360
		Sand with Lignite	34	394
		Sandy Clay	7	401
		Sand	29	430
		Sand w/ Clay Streaks	39	469
		Sandy Clay w/ Sand Strks.	11	480
		Coarse Sand	60	540
		Coarse Sand w/ Fine Gavel	48	588
		Sandy Clay	125	713
		Clay	17	730
		Sandy Clay	15	745
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		Clay	51	868
		Sandy Clay w/ Sand Strks	87	955
		Sand and Sandy Clay	45	1040
		Clay	17	1057
		Clay (Tough)	60	1117
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		Clay	106	1288
		Sandy Clay	7	1295
		Clay	5	1300
		Sandy Clay	144	1444
		Sand (Fine)	30	1474
		(See Reverse Side)		Well No.
		(Use Back Side)		

Mail this copy to Board of Water Commissioners 429 Miss. St. Jackson, Miss.

12/12
9-65

MISSISSIPPI
 BOARD OF WATER COMMISSIONERS
 416 North State Street
 Jackson, Mississippi 39201

CODED

WATER WELL DRILLERS LOG

September 19 65 Carloss Well Supply Co DeSoto
 date well completed firm name county well located

LANDOWNER: <u>Town of Walls</u>	description of formations encountered	from	to
<u>Walls, Mississippi</u>	Top Soil	0	10
(mailing address)	Sand and Gravel	10	202
WELL LOCATION:	Clay	202	305
sec. <u>33</u> T <u>1</u> N R <u>9</u> E	Sand	305	395
S S W	Clay	395	480
<u>1.0</u> miles <u>N</u> of <u>Walls</u>	Sand	480	540
(distance) (direction) (nearest town)	Clay	540	817
WELL PURPOSE: <u>Municipal</u>	Sandy Clay	817	1182
(home, irrigation, municipal, industrial)	Clay	1182	1440
WELL COMPLETION DATA:	Sand	1440	1514
(1) diameter (inches) <u>8"</u>			
(2) total depth (feet) <u>1500</u>			
(3) static water level (feet) <u>-24</u> below below top of ground.			
(4) casing <u>Steel</u> <u>1440</u>			
(material) (depth)			
(size) if telescope see back.			
(5) screen <u>60 Ft.</u> <u>1440</u>			
(length) (depth to top)			
<u>6"</u> <u>SS</u>			
(size) (material)			
(6) pump <u>20</u> <u>350 gal</u>			
(HP) (yield gpm)			
<u>Electric</u>			
(type power)			
(7) electric log <u>No</u>			
(yes or no)			
(organization running log)			
(8) how well bottom plugged <u>B.P. Valve</u>			
DRILLERS REMARKS:			

CODED

Well No. i:

The box below is for office use only.

SPRT *B* *A-12*

Issued: <i>9-8-92</i>	Expires: <i>9-8-2002</i>	Fee Paid	Permit No. <i>GW-12487</i>
Lat. <i>34-57-13</i>	Long. <i>90-09-15</i>	Elev. <i>201</i>	USGS No.
Quad <i>LAKE CORMORANT</i>	Dist.		Basin No. <i>08030204</i>
STAC			Dam Inv. No.
			Dam appl. No.

RECEIVED
APR 03 1990
fee paid

Dept. of Natural Resources, Bureau of Land and Water Resources, P.O. Box 10631, Jackson, MS 39205-0631
**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:

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

(Address) _____

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

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

WALLS WATER ASSOCIATION, INC.

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

P. O. BOX 216

(Address) _____

WALLS

(City) _____ MISSISSIPPI 38680 (601) 781-3722
(State and Zip) _____ (Telephone Number) _____

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

NW 1/4 of the *SE* 1/4 of Section *33* Township *15* Range *9W* 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) *.056* million gallons per day at a maximum rate of *150* gallons per minute

(c) _____ acre feet of storage at normal pool

(d) *50,000* per *day* at a maximum rate of *350 gal minute*

Construction of proposed work ~~will begin~~ *Began* on (date) _____, 19 *85* and will be completed by (date) _____, 19 _____

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)

1. Source of water is from _____ which drains into _____ which drains into _____ which drains into _____

2. 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)

- Source of water is Well aquifer.
- Description of proposed water well:
 - DEPTH OF WELL: 1497 ~~2000~~ ³⁰⁰ feet. DRILLER (name): Layne Carter
 - SURFACE CASING: Length: 1137 ~~1500~~ ⁵⁰⁰ feet. Diameter: 8 ~~6~~ ⁸ inches. Type: Steel
 - SCREEN: Length: 60 ~~50~~ ⁵⁰ feet. Diameter: 6 ~~8~~ ⁶ inches. Type: Steel
 - PUMP: Type: Horizontal. Size: 8" 6. Capacity: 150 ~~450~~ ⁴⁵⁰ gallons per minute.
Number of stages: 10. Setting depth: 265 feet.
 - POWER UNIT: Type: Electric. Size: 15 horsepower.
 - 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	SECTION	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		

- 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 300. (b) The number of connections/customers is 135.

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>32391</u> (Volume)	<u>1990</u> (Year)	<u>40 000</u> (Volume)	<u>1995</u> (Year)	<u>45 000</u> (Volume)	<u>2000</u> (Year)	<u>50 000</u> (Volume)	<u>2005</u> (Year)
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- 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? _____

- RECREATION: Explain how water will be used: _____

- OTHER use: Explain in detail: _____

REMARKS: The no. of people served outnumbers meters due to a no. of TRAILER PARKS on one meter, & a no. of FARM families using from one service.

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

PAUL WOODS, Pres
(Name)
WALLS WATER ASSN
(Address)
6203 Nail Rd - Walls Ms 38680
(City, State, Zip)
601-781-0563
(Telephone)

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

Lucille Thomas, Sec'y
(Signature)
WALLS WATER ASSN.

Subscribed and sworn to before me this 30th day of march 19 90 at Walls MS
County of DeSoto My commission expires MY COMMISSION EXPIRES AUG. 22, 1992
Dorothy L. Wilson Notary Public

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): SHB + PEG CAR/DAS DATE: 8-21-94
7/26/94
UNIT DEQ #: 84094 FILE #: B072619H
HEALTH DEPT. #: 170019-01 ELEV. 209
USGS #: 494 A-12 OLWR #: MS-GW-12487

OWNER: DESOUD ULT. WALLS
LOCATION: NE/NW/SE S 33 T 15 R 9W COUNTY: DeSoto

LOCATION DESCRIPTION: Lt. CORMORANT Quad
Water Plant .1 mi. west of Hwy 61
WEST of R.R. TRACK AT FLEW TANK WEST SIDE
OF YARD -

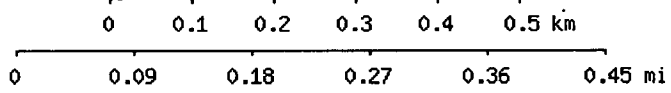
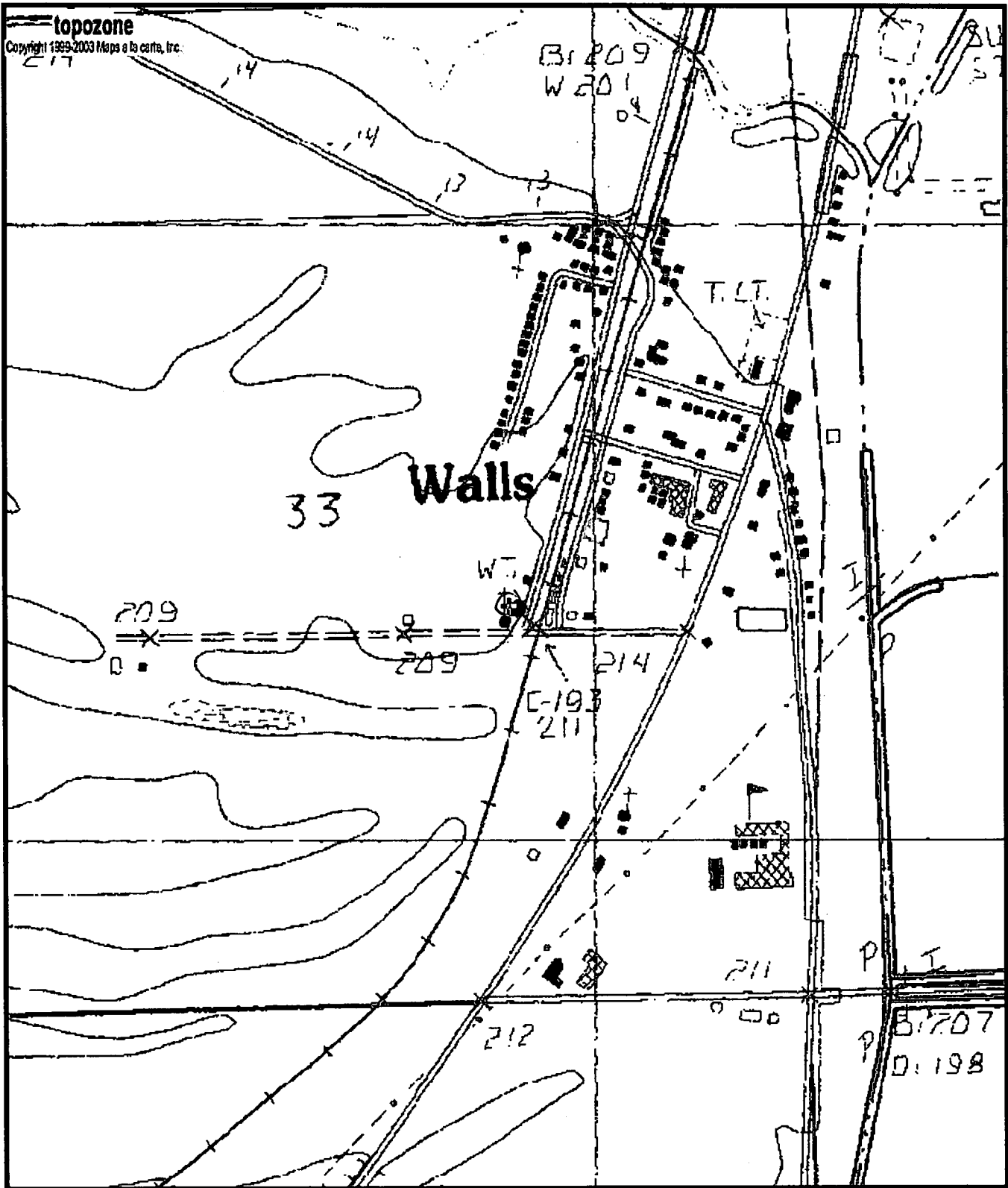
CASING DIA: 10" PUMP TYPE & SIZE: TURBINE - 20HP

GPS FIELD LOCATION: LAT. 34.57251N LONG. 90.09267W
34° 57' 11.95"

GPS CORRECTED LOCATION: LAT. 34.95359730 LONG. 90° 09' 29.0"
90.15446629

REMARKS: _____

t



Map center is 34° 57' 13"N, 90° 09' 16"W (WGS84/NAD83)
Lake Cormorant quadrangle
 Projection is UTM Zone 15 NAD83 Datum

