

Coded By Q 2/94
Checked By 03/14/95
Entered By 2/95
Date 3/95

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. 212
County Forrest
Agency

Well No. L47

WELL RECORD

Brooklyn Quad

Agency Code: U S G S Site Id: 13104050891137011 Project No.: 5

Station Name: 1210471 BRIDOKILYNI WIA Latitude: 9310405 Longitude: 100891137

Lat/Long Ac.: 11 S F T M Dist: 6=28 State: 7=28 County: 8=035 Land Net: 13 N W N S I 10 T 10 I N R I 12 W 1

Location Map: 14 BRIDOKILYNI Altitude: 16 215 Met/Meas: 17 A L M Accuracy: 18 15 Hydrologic Unit: 20 103117010171

Agency Use: 803 A I 6 Date Inventoried: 711 Station Type: 4 Data Type: 804

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

Date of Construction: 21 04 / 11 11 / 19 94 Well Use: 23 W Water Use: 24 P Primary Aquifer: 714 1220114 Hole Depth: 27 1117

Well Depth: 28 840 Water Level: 30 1101 Water Level Date: 31 02 / 11 5 / 19 94 Method: 34 1 Status: 37 1 Source: 33 D

CONSTRUCTION DATA

R=58 T=A 723#1 Construction Date: 60 02 / 11 5 / 19 94 Contractor: 63 06 H Name: LAYNE Method: 65 H Finish: 66 6

CONSTRUCTION CASING DATA

R	T	Top/Casing	Bot/Casing	Diameter
76	A	725#1 59#1	77 110	78 1795
76	A	725#2 59#1	77 1737	78 1810

CONSTRUCTION OPENINGS DATA

R	T	Top/Depth	Bot/Depth	Diameter	Type	Length	Width
82	A	726#1 59#1	83 1810	84 1840	87 16	89	88 130
82	A	726#2 59#1	83	84	87	89	88

CONSTRUCTION LIFT DATA

R=42 T=A 254#1 Lift Type: 43 T Date: 38 02 / 11 5 / 19 94 Intake: 44 1117

Power: 45 E H.P.: 46 30 Serial No.: 49

MISCELLANEOUS OWNER DATA

R=198 T=A 718#1 Date of Ownership: 159 02 / 11 5 / 19 94 Owner Name: 161 BRIDOKILYNI WIA

MISCELLANEOUS OTHER ID DATA

R=189 T=A 736#1 E-Log No.: 190 212 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 1954 .	Temp 196#00010	Value 1974 .
R=192	T=A	738#2	Date of Measurement 1934 / / .	Aquifer Sampled 1954 .	Sp Cond 196#00095	Value 1974 .
R=192	T=A	738#3	Date of Measurement 1934 / / .	Aquifer Sampled 1954 .	pH 196#00400	Value 1974 .

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	Log Type 199#E	Req. Depth 2004 201 .	End Depth 2014 9117 .
R=198	T=A	739#1	Log Type 199#D	Req. Depth 2004 10 .	End Depth 2014 9117 .

MISCELLANEOUS NETWORK DATA *706 = QW WL WD **

R=114	T=A	730#1	Req. Year 1154 4 .	End Year 1164 4 .	Agency Source 120=A 117# .	Freq. 1184 .
R=121	T=A	730#2	Req. Year 1154 4 .	End Year 1164 4 .	Agency Source 1174 .	Freq. 1184 .

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks 184#02/115/11994	Remarks 185# MSGW 14790
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DISCHARGE DATA

R=146	T=A	Pump/Flow 147#1	Date 148#014/115/11994	Type 703#P	Discharge <i>260#</i> 1504 295 .	Sp. Capacity 2724 .
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GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 914 16190 .	Depth Bot. 924 1895 .	Unit Id 934 122KITHL	304=P
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 1004 .	1034 .
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15'dd @ 275 gpm

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO
TOP SOIL	0'	10'
SAND & GRAVEL	10'	20'
White Sandy Clay	20'	50'
White Clay	50'	415'
Coarse Sand & Gravel	415'	625'
Clay & Sand Streaks	625'	1080'
Fine Sand	680'	750'
Sand & Shale	750'	790'
Sand	790'	895'
Shale	895'	917'

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
Bureau of Land and Water Resources

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

COUNTY WELL LOCATED Forrest		PERMIT NUMBER MS-6W-14790
WELL NUMBER 3	CODED <input checked="" type="checkbox"/>	NAME OF DRILLING FIRM Layne-Central Co., A
L47		Division of Layne, Inc.
DATE WELL COMPLETED Feb. 1994		

NAME & MAILING ADDRESS OF LANDOWNER
Brooklyn Utility Association
P.O. Box 69
Brooklyn, MS 39425

WELL LOCATION: SEC **4** TOWNSHIP **1** RANGE **12**
SE 1/4 **N** **E**

DISTANCE **1** Miles DIRECTION **N** of NEAREST TOWN **Brooklyn**

OTHER LANDMARK
Well site at old Hwy. 49

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) _____ H/P **30**

Pump Capacity (GPM)	No. of Stages	Setting Depth
300	3	177 FT.

PUMP TEST

Well yielded **295** GPM with
a drawdown of **19** ft.
after **2** hours of pumping

WELL DATA

Well Depth 845'	Casing Diameter (In.) 10"	Casing Length (Ft.) 795'
Type of Casing Steel	Hole Depth 917'	Depth to Static Water Level 101'

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

Top of Lap Pipe or Reduction in Casing
737 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

SCREEN DATA

Diameter - Inches 6"	Length - Feet 40'	Slot Size - Inches .030"
Screen Type Stainless Steel	Depth to Bottom - Feet 5'	

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
TOP SOIL	0'	10'			
Sand & Gravel	10'	20'			
White Sandy Clay	20'	50'			
White Clay	50'	415'			
Coarse Sand + Pro gravel	415'	675'			
Clay + Sand Streaks	675'	680'			
Fine Sand	680'	790'			
Sand + Shale	790'	790'			
Sand	790'	895'			
Shale	895'	917'			

FEB 13 1994

Dept. of Environmental Quality
Office of Land & Water Resources

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

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

The box below is for office use only. MOCN

Issued: <u>5-24-94</u>	Expires: <u>5-24-2004</u>	Fee Paid: <input checked="" type="checkbox"/>	Permit No. <u>GW-14790</u>
Lat. <u>31-04-07</u>	Long. <u>89-11-35</u>	Elev. <u>212'</u>	USGS No.
Quad. <u>Brooklyn</u>	Dist.		Basin No. <u>03170007</u>
STAC			Dam Inv. No.
			Dam appl. No.

Dept. of Natural Resources, Bureau of Land and Water Resources, P.O. Box 10631, Jackson, Mississippi 39202



APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW FOR BENEFICIAL USE THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI APR 12 1994

This application is for (circle one): GROUNDWATER SURFACE WATER

Dept. of Environmental Quality
Office of Land & Water Resources

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) Brooklyn Utility Assn., Inc. 64-0618853
(S/S or Tax ID No.)
(Address) PO Box 69
(City) Brooklyn, MS. 39425 (601) 582-1948
(State and Zip) (Telephone Number)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):

(Name) _____ (S/S or Tax ID No.) _____
(Address) _____
(City) _____ (State and Zip) _____ (Telephone Number) _____

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

NW 1/4 of the NW 1/4 of Section 10, Township 1N, Range 12W, County Forrest

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) 0.11 million gallons per day at a maximum rate of 300 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) Dec. 15, 1993 and will be completed by (date) June, 1994

Water will be used from (month) each month to (month) _____ 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.

Well #1 S/175 gpm Well #2 - 300 gpm HD#
GW 12930 GW 12931

SECTION A (to be completed if application is for surface water source)

- 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 Sand aquifer.
2. Description of proposed water well:
- (a) DEPTH OF WELL: 888 feet. DRILLER (name): Layne Central
- (b) SURFACE CASING: Length: 795' feet. Diameter: 10 inches. Type: Steel
- (c) SCREEN: Length: 40 feet. Diameter: 6 inches. Type: SS Wire Wrapped
- (d) PUMP: Type: Sub-Turbine Size: 8 Capacity: 300 gallons per minute.
Number of stages: 3 Setting depth: 165' feet.
- (e) POWER UNIT: Type: Electric Motor Size: _____ 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 495.
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? * 0.272 MGD 1999; 0.299 MGD 2004; 0.329 MGD 2009; 0.362 MGD 2014
(Volume) (Year) (Volume) (Year) (Volume) (Year) (Volume) (Year)

- * All wells
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: _____

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

Brax H. Balson P.E.
(Name)
P O Box 68
(Address)
Wiggins MS 39577
(City, State, Zip)
(601) 928-7263
(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 7th day of April 1994 at Brookly, MS
County of Forrest My commission expires 1-23-1996
Carmen Stewart Notary Public

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

Brooklyn Guard.
6/5/96

USER NAME(S): SH Bishop + CA Hornbeak DATE: ~~8-6-94~~
Hornbeak
UNIT DEQ #: 82859 / 82859 FILE #: B060522A
180014-03 A060823C
HEALTH DEPT. #: New Well MD NO. ELEV. 212
USGS #: 2-146 L47 OLWR #: 14790

OWNER: Brooklyn Water Assn.

LOCATION: NW - NW S 10 T 1 N R 12 W COUNTY: Forest

LOCATION DESCRIPTION: Well located 1.1 mi. SE of New Hwy 49
on old Hwy 49 w. 8mi North of Brooklyn.

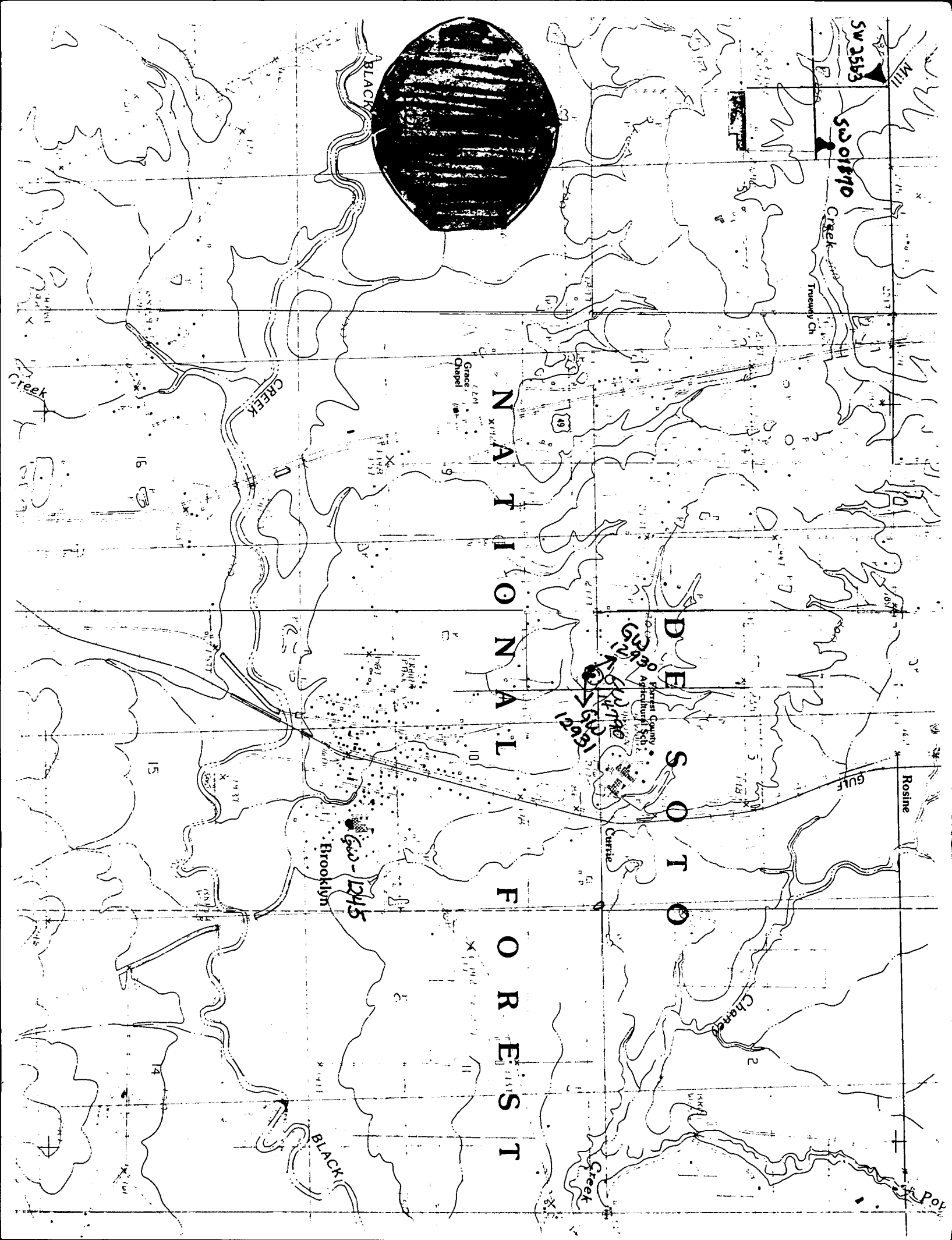
CASING DIA: 8" PUMP TYPE & SIZE: Sub.
31° 04.070

GPS FIELD LOCATION: LAT. ~~31.14453~~ LONG. 89° 11.360
89° 11.558

GPS CORRECTED LOCATION: LAT. 31.06888588 LONG. 89.19325671

REMARKS: GPS Located at well

Well is new and Has not been put on line yet.



SW 25B3

5301870



NATIONAL MONUMENT

DE SOTO COUNTY

650-1245

650-1245

FOREST

BLACK CREEK

CREEK

Creek

Tranway Ch

GULF

Rosine

Cherokee Creek

BLACK CREEK

Creek

Pot

16

15

14

9

10

11

18

2

Grace Chapel

Forest County

Apprentice Mill

Cherie

Creek

12

13

14

15

16

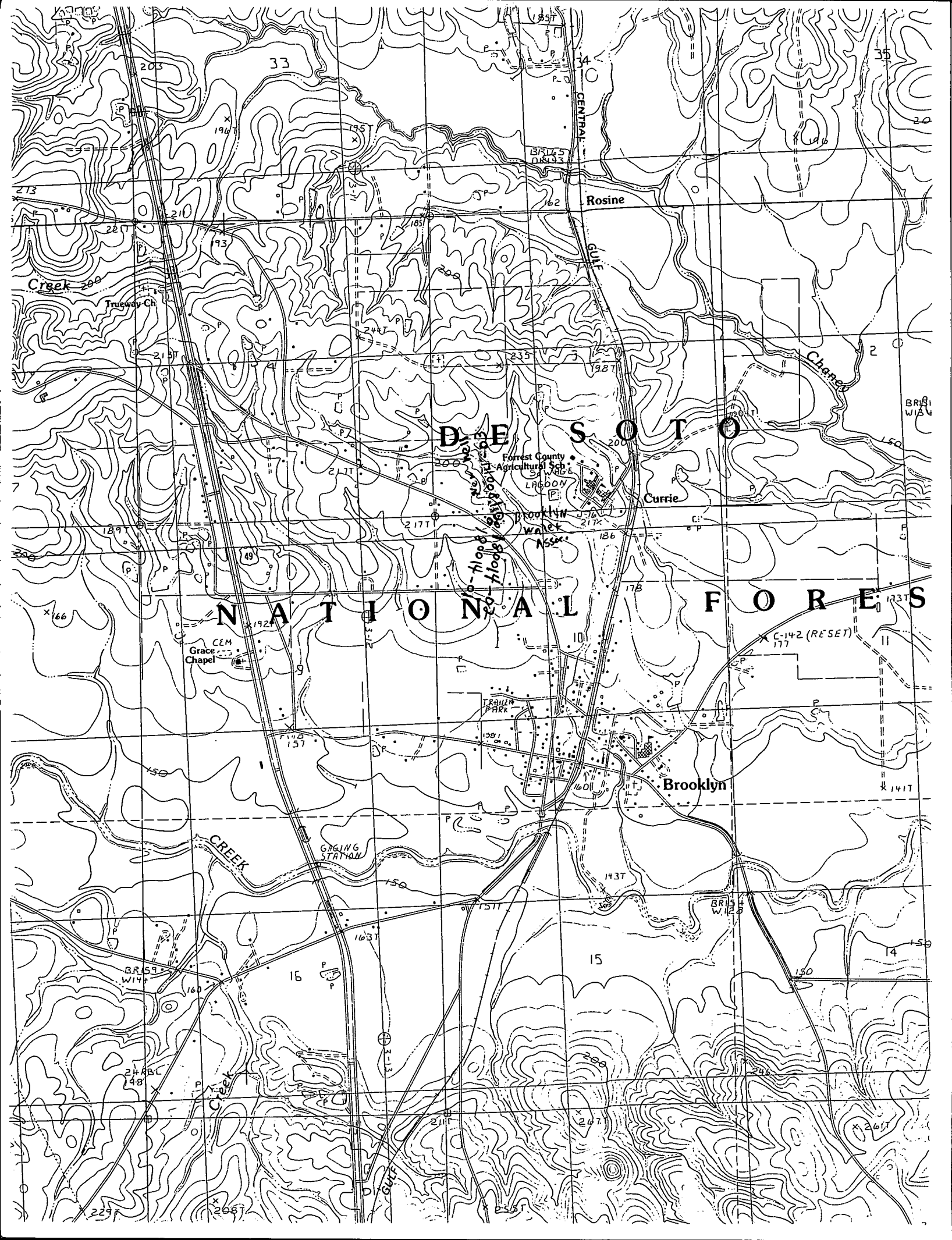
17

18

RECEIVED

APR 12 1994

Dept. of Environmental Quality
Office of Land & Water Resources :



D E S O T O
N A T I O N A L F O R E S T

Rosine

Currie

Brooklyn

Creek 200

Chane

CREEK

GAUGING STATION

TRAILER PARK

Truway Ch

Forrest County Agricultural Sch

CEM
Grace Chapel

LABOON

WALLET ASSOCIATION

C-142 (RESET)
177

BR 59
W 14

BR 13
W 12

BR 14
W 8

BR 15
W 12

BR 16
W 14

BR 17
W 12