

TRANSMITTED FOR ADP

Coded By Q 6/89  
Checked By \_\_\_\_\_  
Entered By \_\_\_\_\_  
Date \_\_\_\_\_

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
MISSISSIPPI DISTRICT

E-Log No. 204  
County FORREST  
Agency \_\_\_\_\_

Well No. C71  
3/3 C

WELL RECORD

Cartersville quad

Agency Code: U S G S Site Id: 1311211101089112118011 Project No.: 54

Station Name: 12 CARTERVILLE BARRINGTON WIA Latitude: 9 31 21 11 01 Longitude: 10 08 19 12 11 81

Lat/Long Ac.: 11 S F T H Dist: 6=28 State: 7=28 County: 8 035 Land Net: 13 SWISIE S 33 T 10 S N 1 R 12 W

Location Map: 14 CARTERVILLE Altitude: 16 27 21 Met/Meas: 17 A L M Accuracy: 18 1 51 Hydrologic Unit: 20 0311761005T

Agency Use: 803 A I D Date Inventoried: 711 01 6 / 11 3 / 11 9 8 9 Station Type: Y Data Type: 804

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

Date of Construction: 21 06 / 11 31 / 11 9 8 9 Well Use: 23 W Water Use: 24 P Primary Aquifer: 714 122 C T H L I Hole Depth: 27 18 6 0

Well Depth: 28 17 7 8 Water Level: 30 15 6 1 4 Water Level Date: 31 11 / 0 1 1 / 11 9 8 9 Method: 34 Status: 37 Source: 33 D

CONSTRUCTION DATA

R=58, T=A, 723#1, Construction Date: 60 11 4 / 10 11 / 11 9 8 9, Contractor: 63 11 8 4, Name: Griner, Method: 65 A 1, Finish: 66 6 1

CONSTRUCTION CASING DATA

R	T	Top/Casing	Bot/Casing	Diameter
R=76	T=A	725#1, 59#1	77 11 01	78 17 27, 79 11 21
R=76	T=A	725#2, 59#1	77 16 53	78 17 31 81, 79 18 1

CONSTRUCTION OPENINGS DATA

R	T	Top/Depth	Bot/Depth	Diameter	Type	Length	Width
R=82	T=A	726#1, 59#1	83 17 31 81	84 17 7 8	87 18	85 S	89, 88 10 1 6 1
R=82	T=A	726#2, 59#1	83	84	87	85	89, 88

CONSTRUCTION LIFT DATA

R=42, T=A, 254#1, Lift Type: 43, Date: 38 11 1 / 0 1 1 / 11 9 8 9, Intake: 44

Power: 45 E H.P.: 46 16 0 1 Serial No.: 49

MISCELLANEOUS OWNER DATA

R=158, T=A, 718#1, Date of Ownership: 159 11 1 / 0 1 1 / 11 9 8 9, Owner Name: 161 BARRINGTON WIA

MISCELLANEOUS OTHER ID DATA

R=189, T=A, 736#1, E-Log No.: 190 204, 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 / 142 / *	End Depth 201 / 860 / *
R=198	T=A	739#1	Log Type 199#D *	Beg. Depth 200 / / 0 / *	End Depth 201 / 860 / *

MISCELLANEOUS NETWORK DATA

R=114	T=A	730#1	Beg. Year 115 / 9 / / *	End Year 116 / 9 / / *	Agency Source 120=A 117# / / / / *	Freq. 118 / / *
R=121	T=A	730#2	Beg. Year 115 / 9 / / *	End Year 116 / 9 / / *	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 / / / / / 0 / / / 1989 *	Type 703-P	Discharge 150 / 398 / *	Sp. Capacity 272 / 13 / 13 *
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GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 91 / 173 / 5 / *	Depth Bot. 92 / 81 / 0 / *	Unit Id 93 / 12 / 2 / 1 / 1 / 1 / *	304=P
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100 / / / / / / / / *	103 / / *
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July 42 across from <sup>New</sup> Petal High School

75gpm test well  
6" x 4"  
WL = 154.4  
70.4' dd

dd 121.32' @ 378gpm / 3.11gpm/Ft.

DESCRIPTION OF FORMATION ENCOUNTERED	FROM	TO	FORMATION COMMENTS	FROM	TO
TOP SOIL	0	3	CLAY	880	780
CLAY + SAND STRATA	3	60	SAND	780	722
CLAY	60	136	CLAY	722	814
SAND	136	170	SAND + CLAY STRATA	814	814
CLAY	170	172	CLAY	814	820
SAND + CLAY STRATA	172	230	SAND + CLAY STRATA	820	860
CLAY	230	470			
SAND + CLAY STRATA	470	488			
SAND	488	524			
CLAY	524	658			
SAND + CLAY STRATA	658	720			

**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 <b>FORREST</b>		PERMIT NUMBER
WELL NUMBER <b>C 71</b>	CODED <input checked="" type="checkbox"/>	NAME OF DRILLING FIRM <b>GRINER DRILLING SER.</b>
DATE WELL COMPLETED <b>Nov. 1987</b>		<b>Col. Miss.</b>

NAME & MAILING ADDRESS OF LANDOWNER  
**BARRONTOWN Utility Assoc**  
**FORREST County, Miss**

WELL LOCATION: SEC **33** TOWNSHIP **T5** RANGE **R12**  
*NE 1/4 SW 1/4*

DISTANCE \_\_\_\_\_ DIRECTION \_\_\_\_\_ NEAREST TOWN \_\_\_\_\_  
Miles \_\_\_\_\_ of \_\_\_\_\_

OTHER LANDMARK \_\_\_\_\_

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

**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 **60**

Pump Capacity (GPM)	No. of Stages	Setting Depth
<b>350</b>	<b>10</b>	<b>339</b> FT.

PUMP TEST  
Well yielded **398** GPM with  
a drawdown of **121.32** ft.  
after **4** hours of pumping

**WELL DATA**

Well Depth <b>778 ft</b>	Casing Diameter (In.) <b>12 3/4</b>	Casing Length (Ft.) <b>726.81</b>
Type of Casing <b>steel</b>	Hole Depth <b>860 ft</b>	Depth to Static Water Level <b>154.14 ft</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  
**652.87 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  
**MISS. GEOLOGICAL SURVEY**

**SCREEN DATA**

Diameter - Inches <b>8</b>	Length - Feet <b>40</b>	Slot Size - Inches <b>.016</b>
Screen Type <b>WIRE WOUND</b>		Depth to Bottom - Feet <b>778</b>

**GEOLOGIC DATA (Office Use Only)**

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

Driller's Remarks \_\_\_\_\_

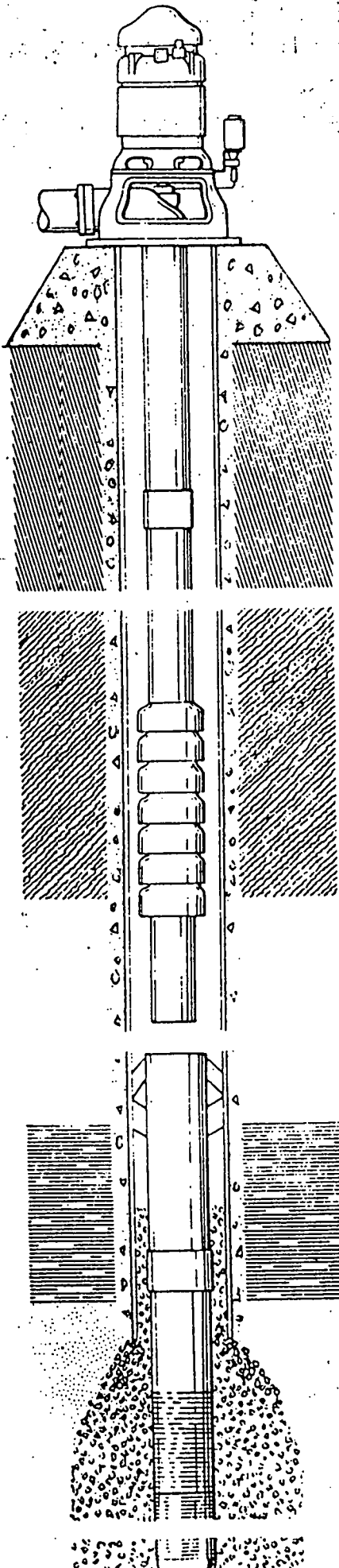
Department of Natural Resources  
Bureau of Land and Water Resources

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
<b>TOP SOIL</b>	<b>0</b>	<b>3</b>	<b>CLAY</b>	<b>720</b>	<b>734</b>
<b>CLAY + SAND STREAKS</b>	<b>3</b>	<b>60</b>	<b>SAND</b>	<b>734</b>	<b>777</b>
<b>CLAY</b>	<b>60</b>	<b>136</b>	<b>CLAY</b>	<b>777</b>	<b>786</b>
<b>SAND</b>	<b>136</b>	<b>170</b>	<b>SAND + CLAY STREAKS</b>	<b>786</b>	<b>814</b>
<b>CLAY</b>	<b>170</b>	<b>194</b>	<b>CLAY</b>	<b>814</b>	<b>820</b>
<b>SAND + CLAY STREAKS</b>	<b>194</b>	<b>230</b>	<b>SAND + CLAY STREAKS</b>	<b>820</b>	<b>860</b>
<b>CLAY</b>	<b>230</b>	<b>410</b>			
<b>SAND + CLAY STREAKS</b>	<b>410</b>	<b>448</b>			
<b>SAND</b>	<b>448</b>	<b>526</b>			
<b>CLAY</b>	<b>526</b>	<b>658</b>			
<b>SAND + CLAY STREAKS</b>	<b>658</b>	<b>720</b>			

IF MORE SPACE IS NEEDED, USE BACK

**GRINER DRILLING SERVICE, INC.**

TELEPHONE 601/736-6347  
POST OFFICE DRAWER 825  
COLUMBIA, MISS. 39429

**LOG FORM**

NAME	Barrontown Utility Association		
LOCATION	Hwy 42, Petal, Mississippi		
	NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC. 33, T5N, R12W		
ENGINEER	Shows & Dearman		
DRILLER	Billy Hibley	LOG. NO.	C-007
COMPLETED	November	1989	ACCEPTED
Sales Engineer	Thad N. Shows Field Supervisor Frank Sistrunk		

**WELL DATA**

Length surface casing NA; size surface casing NA  
Cemented NA No. Sacks NA Size Drilled Hole 17 $\frac{1}{2}$  in.  
Depth drilled hole 731 FT. Size well casing 12 3/4 Type Welded  
Length well casing 726.81' cemented Yes No. Sacks 480  
Size underreamed hole 24" length underreamed hole 45'  
Size screen 8" type Wire Wound mfg. by Houston  
Slot size .016" material 304 S.S. length screen 40.39'  
Lap pipe size 8" lap pipe length 85.74 type 60' S.S. & 25' S  
Type gravel Colorado Silica No. yds. 6.67 Distance to lap 652.87'  
Distance to screen top 738.61' distance to gravel 652.87'  
Distance to screen bottom 778 type bottom 6.41' S & BW Valve  
Connection top of lap 8" L&R Collar static water level 154.14'

**PUMP DATA**

Type Turbine make Peabody Floway Serial No. 89-21567  
Size bowls 10" No. stages 10 Curve No. LKL Length bowls 8'  
Length column 310' size column 6" type column Threaded  
Size oil tube 2" size shaft 1 $\frac{1}{2}$ " length suction 21'  
Size suction 8" size discharge 8" Head No. 8X16 $\frac{1}{2}$  "A"  
Overall pump length 339' Length headshaft 37"  
Type lubrication Oil type oiler Solenoid length air line 310'  
Rated capacity 350 GPM Total Head 448  
RPM 1770 Size foundation 2' X 2' Height 2'

**ELECTRIC MOTOR DATA**

Type VHS Make U.S. Serial No. 6233/507R098R-4  
HP 60 Voltage 460 P.W. 1770 RPM 1770 Frame 364IPWP-I  
Style P Phase 3 Cycle 60 AMPS 73  
Height motor 31" Dia. base 16 $\frac{1}{2}$ " Clutch bore 1 $\frac{1}{2}$ " Clutch No. --  
Top bearing No. 7220-M Lower bearing No. 6211-J Lubrication Oil & Grease

**SWITCH DATA**

Type Pumping Plant Panel Make Allen Bradley  
Catalog No. 1232-1233 Size 4 Rating 60 H.P.  
Volts 460 Phase 3 Cycles 60  
HP rating 60 Size relays 73A Relay type Quick Trip  
Entrance switch 150 A.  
Fuse size & type 150 A. Size wire #2

RECEIVED

APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW WATER FROM THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI FOR BENEFICIAL USE

DEC 10 1999

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES P.O. BOX 10631, JACKSON, MS 39289-0631; 601-999-5111

Office of Land & Water Resources FORM OLWR-AP-2 (REV. 9/94)

This box is for office use only.

3-14-2000 AGN.

Table with 4 columns: Issued, Expires, Fee Paid, Permit No.; Lat, Long, Elev, USGS No.; Quad, APCS Farm No, STAC, MSDOH No.; Aquifer, Tract No, Basin No.; Remarks, Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. 06944

THIS APPLICATION IS FOR (Circle one): GROUNDWATER COMPLETE A,B,E SURFACE WATER - COMPLETE A,C,D,E

BENEFICIAL USE (Circle one or more): 1) Public Supply Municipal, Rural Water, or Private Water 2) Irrigation 3) Industrial 4) Fish Culture 5) Recreation 6) Institutional (eg. Church, School) 7) Commercial (eg. Hotel, Casino, Restaurant) 8) Fire Protection 9) Livestock 10) Flood Protection 11) Other:

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: BARRON TOWN UTILITY ASSOCIATION 64-0651991 (Name) (SSN or Tax ID No.) 101 Dogwood Lane (Address) Petal MS 39465 (City) (State & Zip) (601) 544-3553 (Telephone No.)

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

(Name) (SSN or Tax ID No.) (Address) (City) (State & Zip) (Telephone)

MAP SENT

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

SE 1/4 of the SE 1/4 of Section 33, Township SN, Range RW, County Forrest

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 number.

SECTION B (to be completed for GROUNDWATER SOURCE)

- 1. AQUIFER: Miocene MISSISSIPPI DEPARTMENT OF HEALTH NO.: 180001-04
2. Proposed work will begin on ... and will be completed by ...
3. Description of proposed or completed well: (a) DEPTH OF WELL: 778 feet. DRILLER: Griner Drilling Service (b) SURFACE CASING: Length 12621 feet; Diameter 12 3/4 inches; Type Steel (c) SCREEN: Length 40.38 feet; Diameter 8 inches; Type Wire Wound (d) PUMP: Type Turbine; Size 10"; Capacity 350 gallons per minute; Setting depth 778-339 feet (e) POWER UNIT: Type VHS ELECTRIC; Size 60 horsepower
4. PERMITTED VOLUME: (a) ... acre-feet per year at a maximum rate of ... gallons per minute (b) 181.23 million gallons per day at a maximum rate of 350 gallons per minute

0.19 M<sup>3</sup>/1000 (CONTINUED ON BACK) 350

**SECTION C** (to be completed for SURFACE WATER SOURCE)

1. Source of water is from \_\_\_\_\_ which drains into \_\_\_\_\_  
which drains into \_\_\_\_\_  
(major stream or river)
2. Discription of pump/diversion works:  
Pump (size & type): \_\_\_\_\_ Power Unit (size & type): \_\_\_\_\_  
Lift: \_\_\_\_\_ feet Maximum capacity: \_\_\_\_\_ gallons per minute
3. \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute

**SECTION D** (to be completed for SURFACE WATER IMPOUNDMENTS {DAMS} on continuously flowing streams)

1. Name of storage reservoir: \_\_\_\_\_ Dam Height: \_\_\_\_\_ feet
2. Surface area at normal pool: \_\_\_\_\_ Storage capacity at normal pool: \_\_\_\_\_ acre-feet

**SECTION E WATER USE DATA (ALL APPLICATIONS - complete section related to beneficial use)**

1. **IRRIGATION:** List the number of acres of each crop to be irrigated: Rice \_\_\_\_\_; Cotton \_\_\_\_\_; Oats \_\_\_\_\_;  
Corn \_\_\_\_\_; Soybeans \_\_\_\_\_; Pasture \_\_\_\_\_; Truck \_\_\_\_\_; Wheat \_\_\_\_\_; Grain Sorgum \_\_\_\_\_;  
Other (specify) \_\_\_\_\_ Acres \_\_\_\_\_

- A. Method of Irrigation (circle one) - Center Pivot Flood Furrow
- B. Land Condition (circle one) - Precision Land Formed Smoothed
- C. ASCS Farm No. \_\_\_\_\_ Tract No. \_\_\_\_\_

2. **FISH CULTURE:** Explain how water will be used: \_\_\_\_\_  
How often will reservoir (s) be emptied and refilled? \_\_\_\_\_

3. **MUNICIPAL, WATER ASSOCIATION, or PRIVATE WATER SYSTEM**

Chose "a" or "b". (a) The number of people served is \_\_\_\_\_ or (b) The number of connections is 2083  
What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the next twenty (20) years?  

<u>600</u>	<u>2005</u>	<u>902</u>	<u>2010</u>	<u>810</u>	<u>2015</u>	<u>920</u>	<u>2020</u>
(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)

4. **INDUSTRIAL:** If the water is to be released into a watercourse, indicate the amount released each year \_\_\_\_\_;  
Rate of release \_\_\_\_\_; NPDES Permit No. \_\_\_\_\_

Explain any changes in quality of water to be released: \_\_\_\_\_  
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 (if needed, attach another page): \_\_\_\_\_

7. **REMARKS:** \_\_\_\_\_

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

Gerald Cooley  
(Name)  
101 Dog Wood Lane  
(Address)  
Petal, ms 39465  
(City, State, Zip)  
601-544-3553  
(Telephone)

The accompanying map is hereby declared a part of this application. For irrigation and fish culture use, an ASCS photograph is required. The TEN DOLLAR (\$10.00) permit fee is enclosed herewith.

Gerald Cooley  
(Signature)

Subscribed and sworn to before me this 9 day of Dec, 1999 at Farmers t County of MS-state

My commission expires \_\_\_\_\_  
NOTARY PUBLIC STATE OF MISSISSIPPI AT LARGE  
MY COMMISSION EXPIRES: June 6, 2003  
BONDED THRU NOTARY PUBLIC UNDERWRITERS  
Shield Hunter Notary Public.  
Petal, ms

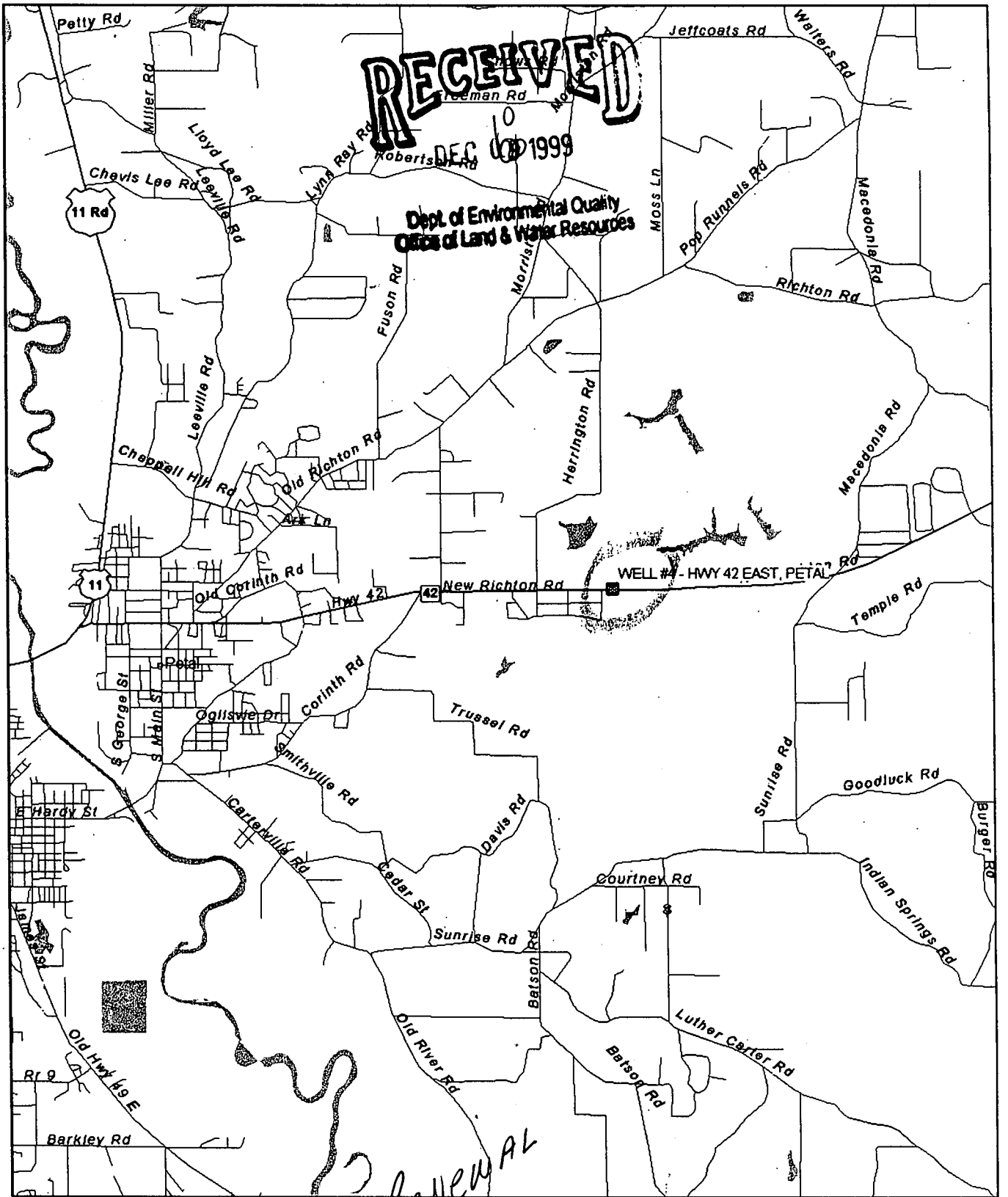
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

Cartersville  
quad.

GPS LOG

USER NAME(S): C. A. Hotwbeak DATE: 6/5/96  
UNIT DEQ #: 82859 FILE #: B060517A  
HEALTH DEPT. #: 180001-04 ELEV. \_\_\_\_\_  
USGS #: C-71 OLWR #: 6944  
OWNER: BATTON TOWN WATER ASSOC. QUAD: CARTERSVILLE  
LOCATION: <sup>NW</sup> -SW-SE S33 T5N R12W COUNTY: FORREST  
LOCATION DESCRIPTION: AT Elev. Tank on South side of Hwy 42 E  
.5 mi East of Herring Ton Rd. Intersection. (Petal)  
CASING DIA: 10" (well is south of Elev. Tank) PUMP TYPE & SIZE: 60 HP Elec.  
GPS FIELD LOCATION: LAT. 31° 20.585 LONG. 89° 12.166  
GPS CORRECTED LOCATION: LAT. 31.34992625 LONG. 89.20472663  
REMARKS: GPS at well.  
Across Rd from New Petal High School.



**RECEIVED**  
 DEC 10 1999

Dept of Environmental Quality  
 Office of Land & Water Resources

WELL #4 - HWY 42 EAST, PETAL

*GW-6944 RENEWAL*

MICROSOFT AUTUMN  
**Streets Plus**

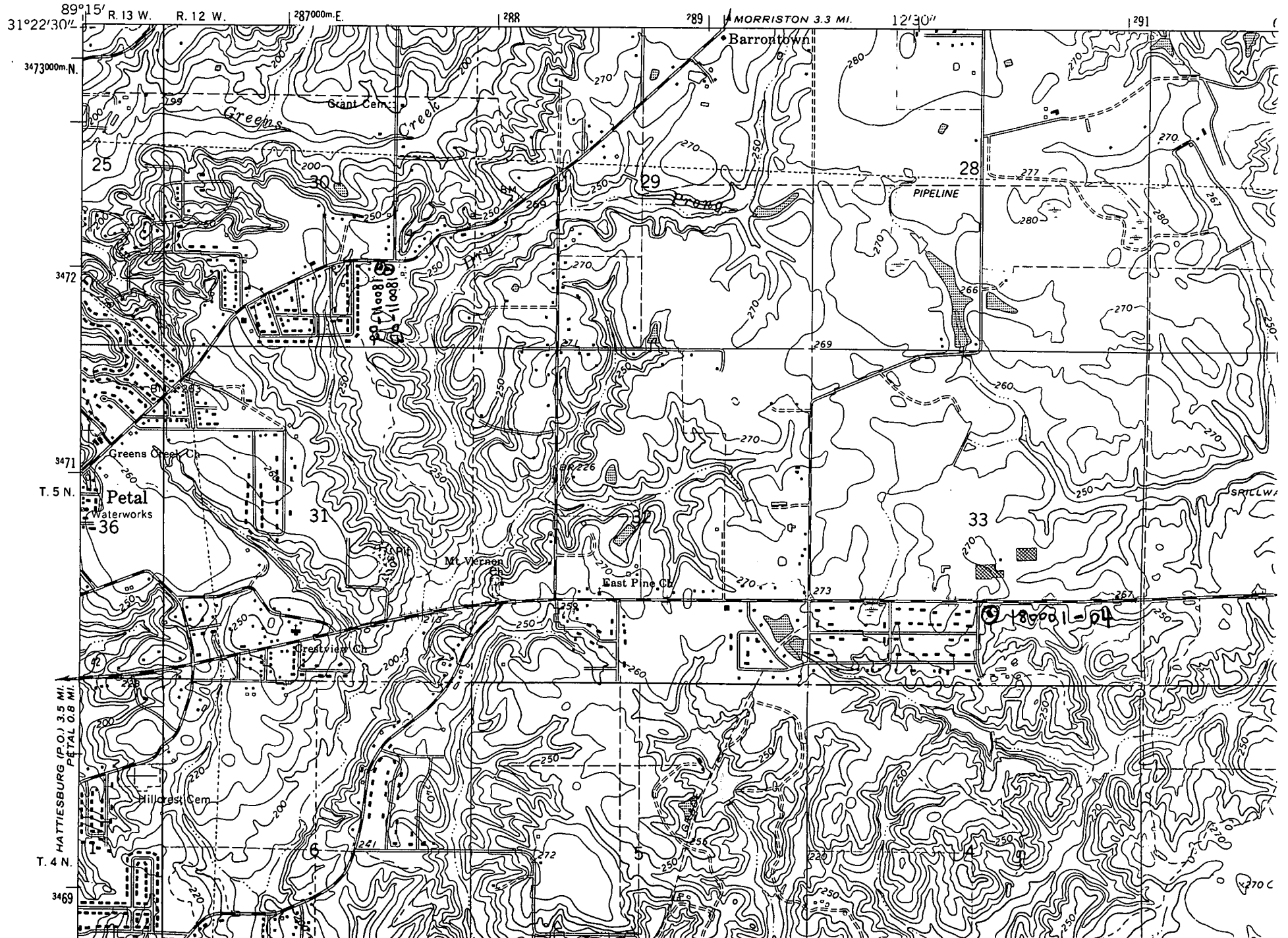
BARRONTOWN UTILITY ASSOCIATION  
 WELL LOCATION - #4



2146 IV NE  
(EASTABUCHIE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Cartersville  
Quad



89°15'

R. 13 W.

R. 12 W.

287000m. E.

288

289

MORRISTON 3.3 MI.

121°30'

291

31°22'30"

3473000m. N.

25

29

28

PIPELINE

3472

3471

T. 5 N.

Petal  
Waterworks  
36

31

33

T. 4 N.  
HATTIESBURG (P.O.) 3.5 MI.  
PETAL 0.8 MI.

3469

Hillcrest Cem.

Mt. Vernon

East Pine Ch.

28901-64

270 C