

TRANSMITTED FOR ADP

Coded By: Q 11/89
Checked By: [Signature]
Entered By: [Signature]
Date: 7-14-89

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. 50
County: DESOTO
Agency:

Well No. 671

WELL RECORD

Agency Code U S G S	Site Id 134512118101891551101011	Project No. 5111111111
Station Name 1251011111 BIRNIGHTS WIAI	Latitude 934521181	Longitude 10408191551101
Lat/Long Ac. 11 S F T M	Dist 6=28	State 7=28
County 8=033	NE Lead Net 13 SENIE S3H110121R1017W	Location Map 14=
Altitude 16 31101	Met/Meas 17 A L H	Accuracy 18 3175
Hydrologic Unit 20= 018030121014		

Agency Use 803 A I O	Date Inventoried 711/01/04/11989	Station Type Y	Data Type 804
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Instru. 805	Remarks 806	Relia. 3 C L M U	2 W X
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Date of Construction 21/01/04/11989	Well Use 23 W	Water Use 24 P	Primary Aquifer 714 124 SPIRTI	Hole Depth 27 1442
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PW

Well Depth 28 318	Water Level 30 132	Water Level Date 31/01/04/11989	Method 34	Status 37	Source 33 D
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CONSTRUCTION DATA

R=58	T=A	723#1	Construction Date 60/01/04/11989	Contractor 630211	Name Hernando	Method 65 H	Finish 66 S
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CONSTRUCTION CASING DATA

R=76	T=A	725#1	59#1	Top/Casing 77 1101	Bot/Casing 78 1282	Diameter 79 121
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R=76	T=A	725#2	59#1	Top/Casing 77 1218	Bot/Casing 78 1280	Diameter 79 181
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CONSTRUCTION OPENINGS DATA

R=82	T=A	726#1	59#1	Top/Depth 83 12810	Bot/Depth 84 318	Diameter 87 18	Type 85 S	Length 89	Width 88 1020
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R=82	T=A	726#2	59#1	Top/Depth 83	Bot/Depth 84	Diameter 87	Type 85	Length 89	Width 88
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CONSTRUCTION LIFT DATA

R=42	T=A	254#1	Lift Type 43 T	Date 38/01/04/11989	Intake 44 210
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Power 45 E	H.P. 46 140	Serial No. 49
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MISCELLANEOUS OWNER DATA

R=158	T=A	718#1	Date of Ownership 159/01/04/11989	Owner Name 161 BIRNIGHTS WIAI
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MISCELLANEOUS OTHER ID DATA

R=189	T=A	736#1	E-Log No. 190/050	Assigner 191 H I S S I D L S T
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North MS Utility Co.

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	1994E	Req. Depth	2004 .	End Depth	2014 .
R=198	T=A	739#2	Log Type	1994D	Req. Depth	2004 .	End Depth	2014 .

MISCELLANEOUS NETWORK DATA

R=114	T=A	730#1	Beg. Year	1154 .	End Year	1164 .	Agency Source	120=A	117# .	Freq.	118# .
R=121	T=A	730#2	Beg. Year	1154 .	End Year	1164 .	Agency Source	117# .	Freq.	118# .	

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks	1844 / / .	Remarks	1854 .
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DISCHARGE DATA

R=146	T=A	Pump/Flow	147#1	Date	148-011/04/1989	Type	703# P	Discharge	1504 .	Sp. Capacity	2724 .
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GEOHYDROLOGIC DATA

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

R=98	T=A	790#1	Unit Tested	1004 .	1034 .
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33'dd @ 524gpm @ 8hrs.

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 Desoto	
WELL NUMBER 5 G 71	CODED <input checked="" type="checkbox"/>
DATE WELL COMPLETED 04 January '89	

PERMIT NUMBER
NAME OF DRILLING FIRM Herndon Well & Supply
Shannon, MS

NAME & MAILING ADDRESS OF LANDOWNER Brights Water Association			
Hernando, MS			
WELL LOCATION: SEC	TOWNSHIP	RANGE	
34	2	XX S 7	W
DISTANCE	DIRECTION	NEAREST TOWN	
7 Miles	NE	of Hernando	
OTHER LANDMARK			
WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc. Municipal			

PUMP DATA		
PUMP TYPE (Circle One): 40 hp Submersible <input type="checkbox"/> Turbine <input checked="" type="checkbox"/> Jet <input type="checkbox"/> Flowing Well, Other (Describe)		
POWER TYPE (Circle One): Electric <input checked="" type="checkbox"/> Tractor, Diesel, Gasoline, Butane, Other (Describe)		
Pump Capacity (GPM)	No. of Stages	Setting Depth
524	5	210 FT.
PUMP TEST		
Well yielded 524 GPM with a drawdown of 33' after 8 hours of pumping		

WELL DATA		
Well Depth	Casing Diameter (In.)	Casing Length (Ft.)
318'	12"	282'
Type of Casing	Hole Depth	Depth to Static Water Level
Steel	440'	132'
TYPE OF COMPLETION: (Circle One or More): Gravel Packed <input checked="" type="checkbox"/> Underreamed, Telescoped, Natural Development, Open Hole, Other (Describe)		
Top of Lap Pipe or Reduction in Casing		
218' FEET	IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE	

LOG DATA	
TYPE OF LOG RUN (Circle One): Electric <input checked="" type="checkbox"/> Gamma Ray, Density, Sonic, Neutron, No Log Run, Other (Describe)	
Name of Organization Running Log Herndon Well & Supply, Inc.	

SCREEN DATA		
Diameter - Inches	Length - Feet	Slot Size - Inches
8"	36' 7"	.020
Screen Type	Depth to Bottom - Feet	
SS Ribbed	318'	

GEOLOGIC DATA (Office Use Only)			
Surface Elev.	Geologic Unit	Unit Thickness	Depth to Top
Subs. SWL	Date	Analysis	Aquifer Test

Driller's Remarks
5/18/89
RECEIVED

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	DATE	TO
Red Clay Gravel	0	14		MAY 18 1989	
Red Sand	14	40			
Clay	40	90			
Sand	90	320			
Blue Clay	320	335			
Sand	335	442			

IF MORE SPACE IS NEEDED, USE BACK

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

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

This box is for office use only.

FORM OLWR-AP-2 (REV. 9/94)

Issued: <u>4-8-97</u>	Expires: <u>4-8-2007</u>	Fee Paid: <u>X</u>	Permit No.
Lat. <u>34-51-42</u>	Long. <u>89-55-11</u>	Elev. <u>370</u>	USGS No. <u>G-71</u>
Quad. <u>Hernando</u>	ASCS Farm No.	STAC.	MSDOH No. <u>170002-02</u>
Aquifer: <u>SPRT</u>	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): **NEW PERMIT** RENEWAL - PERMIT NO. G-71

THIS APPLICATION IS FOR (Circle one): **GROUNDWATER** COMPLETE A,B,E 601-15165

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, Office or) 7) Commercial (eg. Hotel, Casino, Restaurant) 8) Fire Protection 9) Livestock 10) Flood Protection Other: _____

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: NORTH MISSISSIPPI UTILITY COMPANY 64-0676172
(Name) (SSN or Tax ID No.)

P O BOX 382, 1481 BYHALIA RD
(Address)

HERNANDO MS 38632 (601) 429 9509
(City) (State & Zip) (Telephone No.)

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

(Name) (SSN or Tax ID No.)

(Address)

(City) (State & Zip) (Telephone)

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 34, Township 2S, Range 7W, County DESOTO

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: SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170002-02

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____

If well has already been drilled, when was well completed (date)? JANUARY 4, 19 89. Under whose name was well originally drilled (if known)? BRIGHTS WATER ASSOCIATION

3. Description of proposed or completed well:

(a) DEPTH OF WELL: 318 feet. DRILLER: HERNDON WELL & SUPPLY

(b) SURFACE CASING: Length _____ feet; Diameter 12 inches; Type STEEL

(c) SCREEN: Length 38 feet; Diameter 8 inches; Type STAINLESS

(d) PUMP: Type TURBINE; Size 40 HP; Capacity 524 gallons per minute; Setting depth 210 feet

(e) POWER UNIT: Type _____; Size _____ horsepower

4. PERMITTED VOLUME :

2-1997 0.20 acre-feet per year at a maximum rate of _____ gallons per minute
million gallons per day at a maximum rate of 524 gallons per minute

(CONTINUED ON BACK)

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 2260 or (b) The number of connections is _____

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>155,000</u>	<u>2000</u>	<u>170,000</u>	<u>2005</u>	<u>190,000</u>	<u>2010</u>	<u>215,000</u>	<u>2015</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.

BILL J ROBERSON
(Name)

P O BOX 362
(Address)

HERNANDO, MS 38632
(City, State, Zip)

601-429-9509
(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.

Bill J. Roberson
(Signature)

Subscribed and sworn to before me this 13th day of Feb, 1997, at Hernando County of Miss

My commission expires March 31 '98 Shonora R. Allison Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

SHB + PEG

7-24-96

USER NAME(S): LAK / DM

DATE: 7/26/96

UNIT DEQ #: 84070

FILE #: B072414A

HEALTH DEPT. #: 170002-02

ELEV. 372
B072413D

USGS #: G-71

OLWR #: MS-GW-15165

OWNER: BRIGHT'S WATER ASSOC. (North Miss. Util., Inc)

LOCATION: NE/SE/NE S 34 T 25 R 7W COUNTY: DeSoto

LOCATION DESCRIPTION: Well is in NE corner of treatment plant
Hernando Quad

CASING DIA: 10" PUMP TYPE & SIZE: Turbine 47

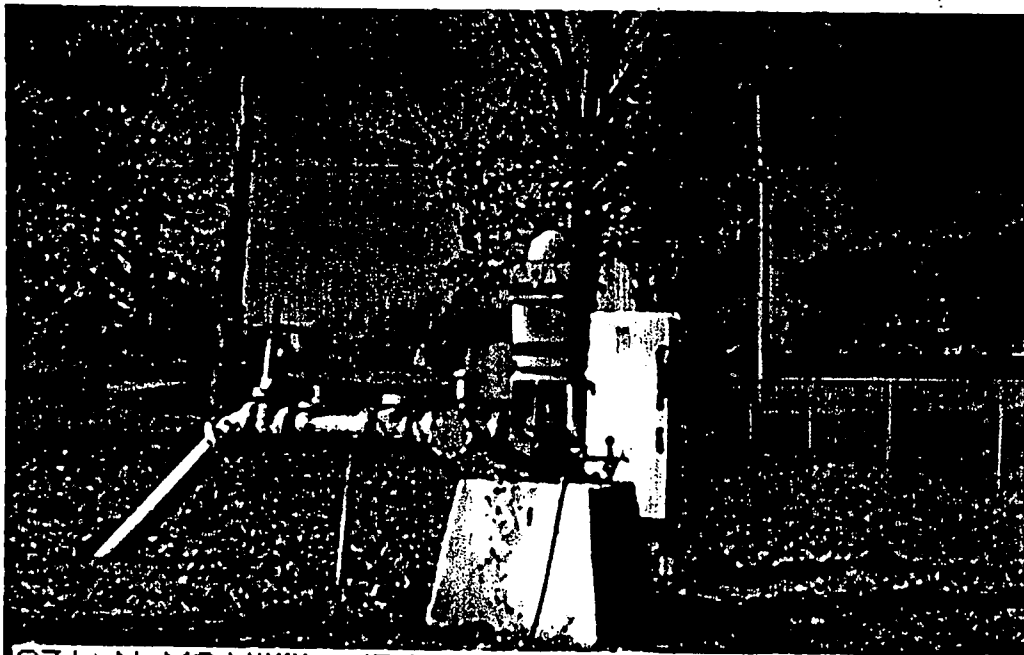
GPS FIELD LOCATION: LAT. 34-53-25.7N LONG. 89-55-15.6W
34° 53' 15.8"

GPS CORRECTED LOCATION: LAT. 34.87090491 LONG. 89.91920275
89° 55' 04.9"

REMARKS: Take Commerce St. East under intersection
to Y intersection with Hernando Ave. Take
L. at fork to Spychaluk St. Turn R. follow
to Malone St. go .6 mile west on left.

.3 mi N of Lake...

note (B072413C)
Bad Location



G71. N. MS Utilities (Brights WA). 170002-02. Well G50 is up the hill in background. The treatment facility and pressure tank are to the left of view with Malone Rd. behind.

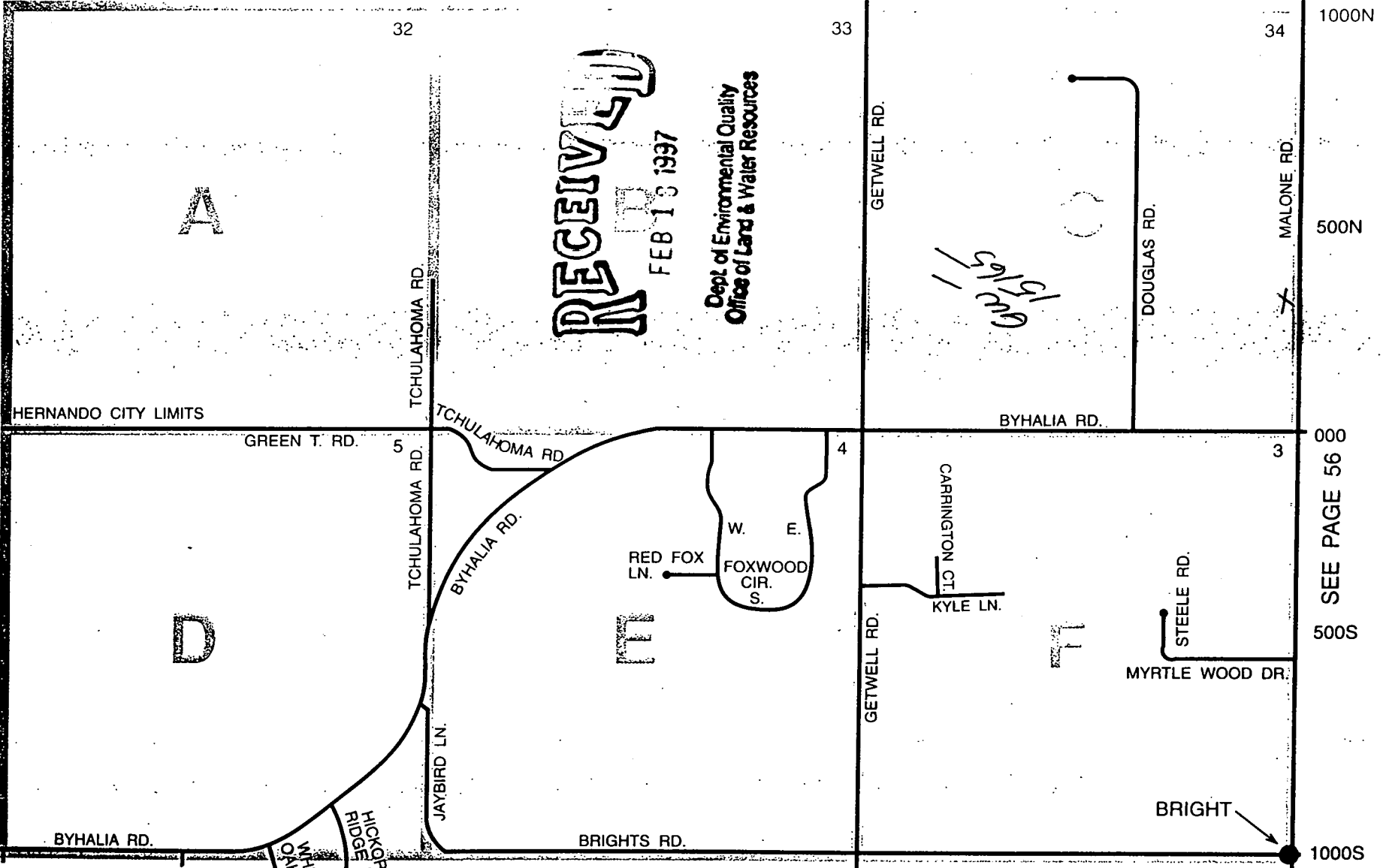
1000E 1500E 2000E 2500E 3000E 3500E 4000E
R 7 W SEE PAGE 44
1000N 500N 000 500S 1000S

T 2 S
SEE PAGE 54
T 3 S

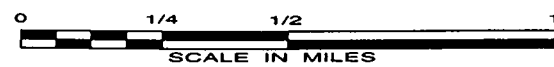
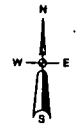
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FEB 13 1997

Dept. of Environmental Quality
Office of Land & Water Resources

Quincy 1/15/97



SEE PAGE 65



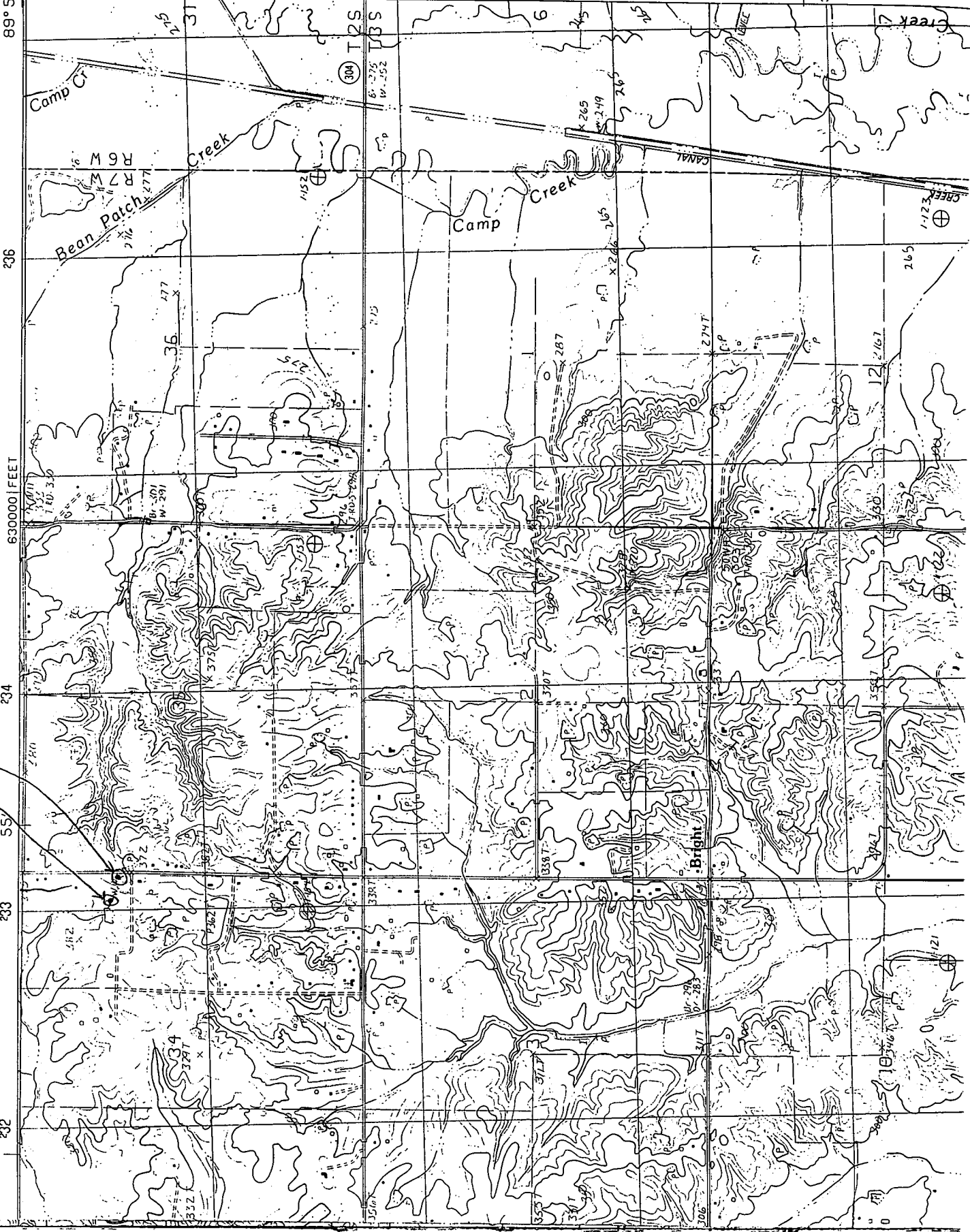
HERNANDO QUADRANGLE
MISSISSIPPI
7.5 MINUTE SERIES (TOPOGRAPHIC)

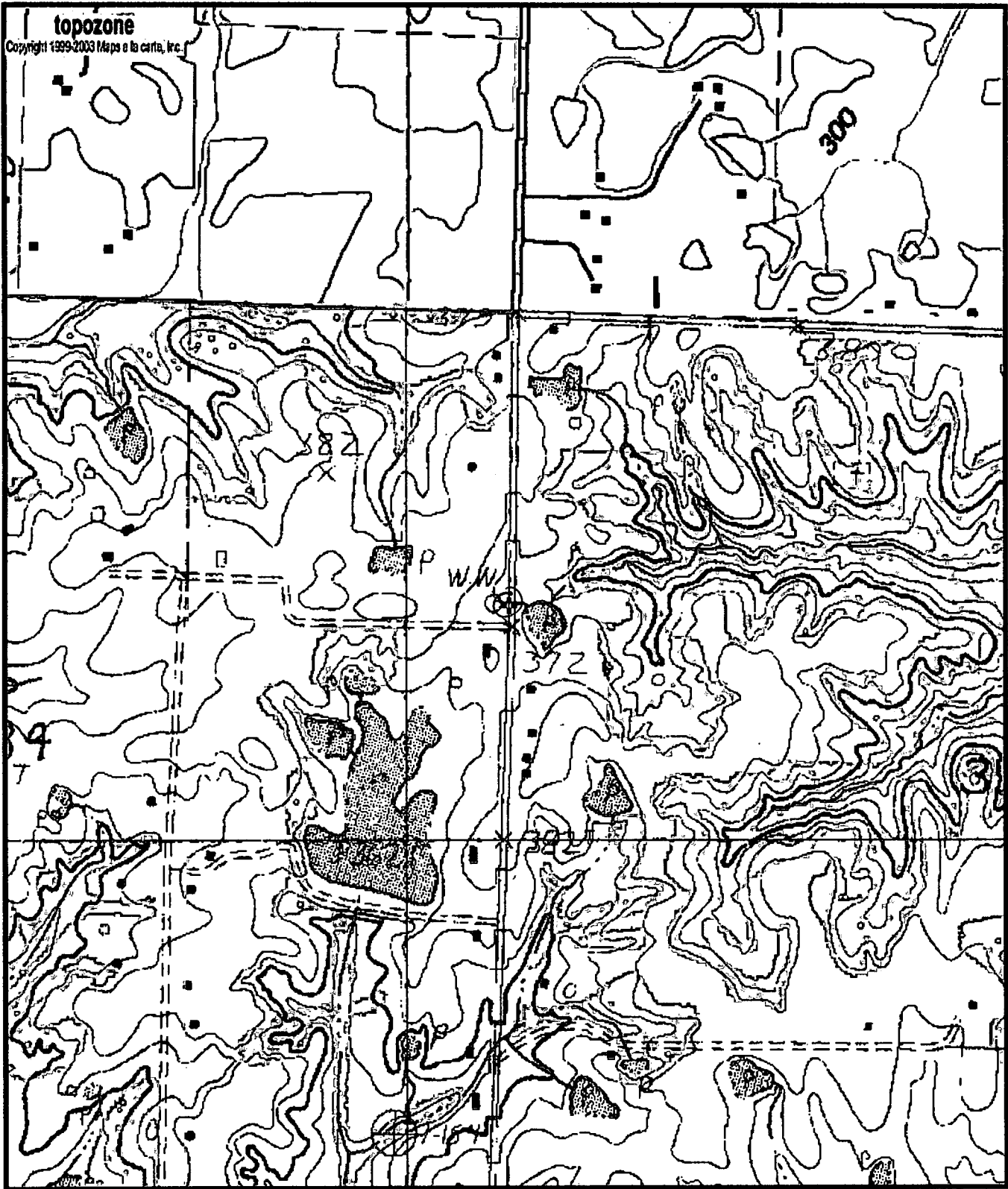
89° 52' 30"
34° 52' 30"

630000 FEET

1590000
FEET

70000-01402





0170002-02
 6W15165
 671

0 0.1 0.2 0.3 0.4 0.5 km
 0 0.09 0.18 0.27 0.36 0.45 mi

Map center is 34° 52' 15"N, 89° 55' 09"W (WGS84/NAD83)

Hernando quadrangle

Projection is UTM Zone 16 NAD83 Datum

M=-0.069
 G=-1.67