

6/78 WTO

Recorded by WTO
Date 11/28/78

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

Well No. K123
E-Log No. _____
County Desoto

Site ID 334401090593801 R=0* T=A* 2=W*

Data reliab. 3-U* Report. agency 4-USGS* Dist. 6=28* 7=28* Co. 8=033*

Lat. _____ Long. 9=334401* 10=0905938* Well No. 12='K123'*

Location 13= NW SW S 13 T 04 S R 08 W * Alt. 16= 330. * 343

Hyd. Unit (OWDC) 20= Date 21= 05/02/1978 *

Well use 23= W * Water Use 24= I * Hole depth 27= 200. * Well depth 28= 200. *

WL 30= 42. * Date 31= 05/02/1978 * Source 33= D *

Status 273 = * Project No. 5=

R=158* T= A * Date 159# 05/02/1978 * Owner No. _____

Owner 161= BUENA VISTA LAKE * PW SPRT
North Ms utility Co.

R=192* T= A * Date 193# / / * Temp. 196#00010* 197= . . *

R=192* T= A * Date 193# / / * Cond. 196#00095* 197= . . *

R=192* T= A * Date 193# / / * pH 196#00400* 197= . . *

R=58* T= A * 59# 1* Date 60= 05/02/1978 * Remarks _____

Drig. 63= 213 * Name Bob SMITH Method 65= H * Finish 66= S *

R=76* T= A * 59# 1*
Top csgn. 77# 0. * Bot. csgn. 78= 160. * Diam. 79# 6. *

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

R=82* T= A * 59# 1* Top 83# 160. * Bottom 84= 200. *

Type 85= S * Diam. 87= 4. * Size 88= . . *

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

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

R= . . * T= A * 147# 1 * Q 150= . . * Q/S 272= . . *

GEN. SITE DATA

OWNER

FIELD OW

CONSTR.

CASING

OPENINGS

FIELD

R=42* T= A * Lift type 43# * Intake 44= * Power type 45= *

Date 38= / / * H.P. 46= * *

LIFT

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

R=198* T= A * Log 199# * Top 200= * Bot 201= * *

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

LOGS

R=114* T= A * Year 115# * Type 120= *

ANAL.

R=90* T= A * 256# 1 * Top 91= 100. * Bot 92= 200. *

Unit ID 93= 124SPRT * Name of Unit

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

Unit ID 93= * Name of Unit

AQUIFERS

R=98* T= A * 99# 1 * Unit tested 100= * 103= *

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

107= * Transmissivity (gal/d)/ft

108= * Hydraul. cond. (gal/d)/ft²

110= * Storage coeff. Boundaries

HYDRAULICS

R=121* T= * Yr Begin 122# * Network 258= *

Water Level Data Collection (1)

description of formations encountered	from	to
tan sand	0	5
red clay	5	40
granite	50	55
blue clay	55	100
white sand	100	200

**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. 4-23-96 AGN.

Issued: <u>5-13-86</u>	Expires: <u>5-13-2006</u>	Fee Paid: <input checked="" type="checkbox"/>	Permit No. <u>GW</u>
Lat. <u>34 43 48 dk</u>	Long. <u>89 59 41 dk</u>	Elev.	USGS No.
Quad. <u>Colliwater</u>	ASCS Farm No.	STAC.	MSDOH No. <u>DEC 27 1995</u>
Aquifer: <u>SPRT</u>	Tract No.		Basin No.
Remarks:			Dam Inv. No.

FORM OLWR-102 REV 2004
RECEIVED
Dept. of Environmental Quality
Office of Land & Water Resources

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. 02419

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

P O BOX 362
(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):

SW 1/4 of the SE 1/4 of Section 13, Township 4 S, Range 8 W, 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.: 170020

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? _____, 19____. Under whose name was well originally drilled (if known)? _____

3. Description of proposed or completed well:
(a) DEPTH OF WELL: 400 feet. DRILLER: CARLOSS WELL SUPPLY
(b) SURFACE CASING: Length 360 feet; Diameter _____ inches; Type STEEL
(c) SCREEN: Length 40 feet; Diameter 6 inches; Type STAINLESS STEEL
(d) PUMP: Type TURBIN; Size _____; Capacity 250 gallons per minute; Setting depth 160 feet
(e) POWER UNIT: Type _____; Size _____ horsepower

4. PERMITTED VOLUME :
(a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
(b) .045 - .030 million gallons per day at a maximum rate of 250 ✓ gallons per minute

dk
2-8-96

(CONTINUED ON BACK) 250

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

- Source of water is from _____ which drains into _____
which drains into _____
(major stream or river)
- Description of pump/diversion works:
Pump (size & type): _____ Power Unit (size & type): _____
Lift: _____ feet Maximum capacity: _____ gallons per minute
- _____ 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)

- Name of storage reservoir: _____ Dam Height: _____ feet
- 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)

- IRRIGATION:** List the number of acres of each crop to be irrigated: Rice _____; Cotton _____; Oats _____; Corn _____; Soybeans _____; Pasture _____; Truck _____; Wheat _____; Grain Sorghum _____; 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. _____

- 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 _____

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? $\frac{34000}{\text{(Volume)}} \frac{2000}{\text{(Year)}} ; \frac{39000}{\text{(Volume)}} \frac{2005}{\text{(Year)}} ; \frac{45000}{\text{(Volume)}} \frac{2010}{\text{(Year)}} ; \frac{50000}{\text{(Volume)}} \frac{2015}{\text{(Year)}}$

- 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? _____

- RECREATION:** Explain how water will be used: _____


- OTHER USE:** Explain in detail (if needed, attach another page): _____

- REMARKS:** _____

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

NORTH MISSISSIPPI UTILITY
(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.


(Signature)

Subscribed and sworn to before me this 20th day of December, 1995, at Hernando County of DeSoto

My commission expires March 23, 1998; Khonda Alliston Notary Public.

2419

Mississippi Department of Environmental Quality
Office of Land and Water Resources

Well Data Form
NORTH MISSISSIPPI UTILITY -

Name of Water System or Facility BUENA VISTA Date 1 of 1
Number of wells 2 PWS ID 0170020 Sheet No. 1 of 1

PWS Well ID No. 0170020 - 01 Date of Construction 1966

Well Depth 336 ft. Casing diam. 14 in. Type pump TURBINE
Active Unused Standby Abandoned Metered yes no
Pumping Rate: 300 gpm. Average time of daily operation: 4 hrs.
Location Description THUNDERBIRD DR E

MAR 24 1966

072

Remarks

PWS Well ID No. 0170020 - 02 Date of Construction 1975

Well Depth 338 ft. Casing diam. 8 in. Type pump TURBINE
Active Unused Standby Abandoned Metered yes no
Pumping Rate: 300 gpm. Average time of daily operation: 4 hrs.
Location Description THUNDERBIRD DR E

MAR 24 1966

072

144 mgd

Remarks

PWS Well ID No. - Date of Construction

Well Depth ft. Casing diam. in. Type pump
Active Unused Standby Abandoned Metered yes no
Pumping Rate: gpm. Average time of daily operation: hrs.
Location Description

Remarks

PWS Well ID No. - Date of Construction

Well Depth ft. Casing diam. in. Type pump
Active Unused Standby Abandoned Metered yes no
Pumping Rate: gpm. Average time of daily operation: hrs.
Location Description

Remarks

PWS Well ID No. - Date of Construction

Well Depth ft. Casing diam. in. Type pump
Active Unused Standby Abandoned Metered yes no
Pumping Rate: gpm. Average time of daily operation: hrs.
Location Description

Remarks

Copy this form if you have more than 5 wells

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): SHB/PEG LAR/DRI DATE: 7-23-96
7/27/94
UNIT DEQ #: 84090 FILE #: 8072715B
HEALTH DEPT. #: 170020-02 ELEV. 80723198
340
USGS #: 496 K-123 OLWR #: MS-6W-02419
OWNER: DESOTO UTIL. BLENIA VISTA - (N. MS. UTIL. INC.)
LOCATION: SWSE/SW S 13 T 45 R 8W COUNTY: DESOTO
Coldwater Quad
LOCATION DESCRIPTION: SW CORNER OF PLANT YARD

CASING DIA: 8" PUMP TYPE & SIZE: TURBINE 20HP
GPS FIELD LOCATION: LAT. 34.437741 LONG. 89.597101
34° 43' 47.6" 89° 59' 39.8"
GPS CORRECTED LOCATION: LAT. 34.72958737 LONG. 89.99513116

REMARKS: Well #1 is 60' East of #2
Gps located at #2 well

RECEIVED

DEC 27 1995

Dept. of Environmental Quality
Office of Land & Water Resources

SEE PAGE 79

2000W

1000W

R-8-W

000

R-7-W

1000E

7000S

11

12

7

LOVE

LOVE RD.

MCCRACKEN RD.

NIP & TUCK RD.

WILCO RD.

BARBARA RD.

QUAIL RIDGE

MISSY CV.

LARVE DR.

Handwritten note:
600' x 100' lot

Handwritten note:
Refer to

T-4-S

GAINES RD.

B

ROBERTSON GIN RD.

WHEELER RD.

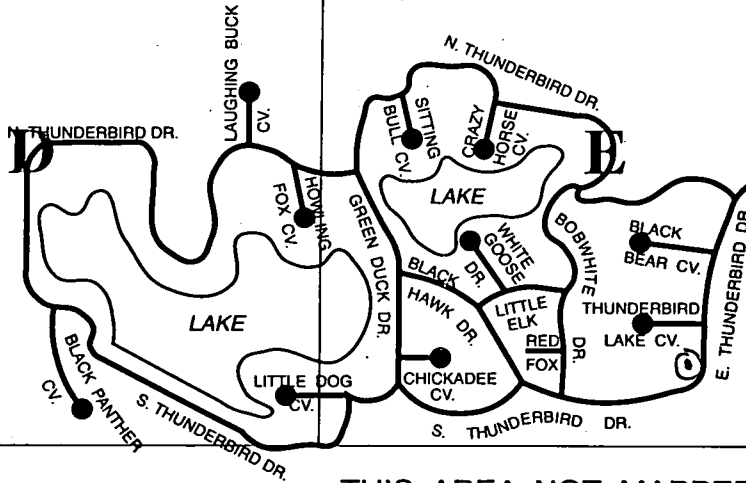
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8000S

SEE PAGE 85



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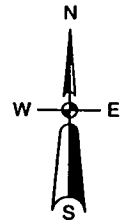
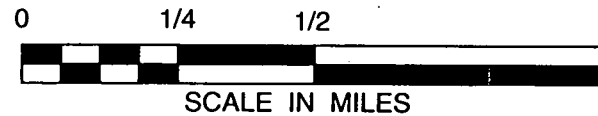
ARKABUTLA LAKE

SEE PAGE 87

9000S

THIS AREA NOT MAPPED

PAGE 86

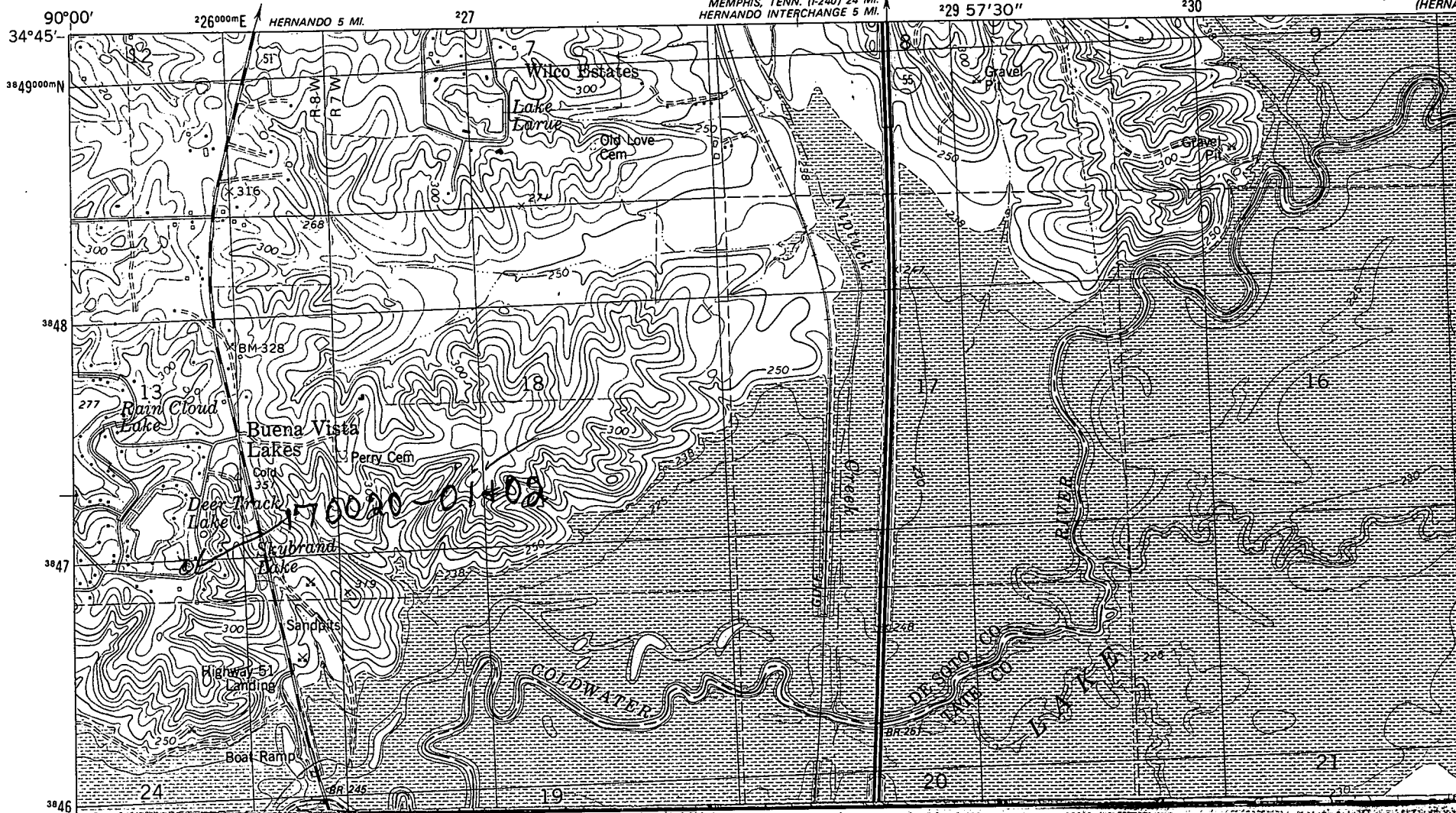


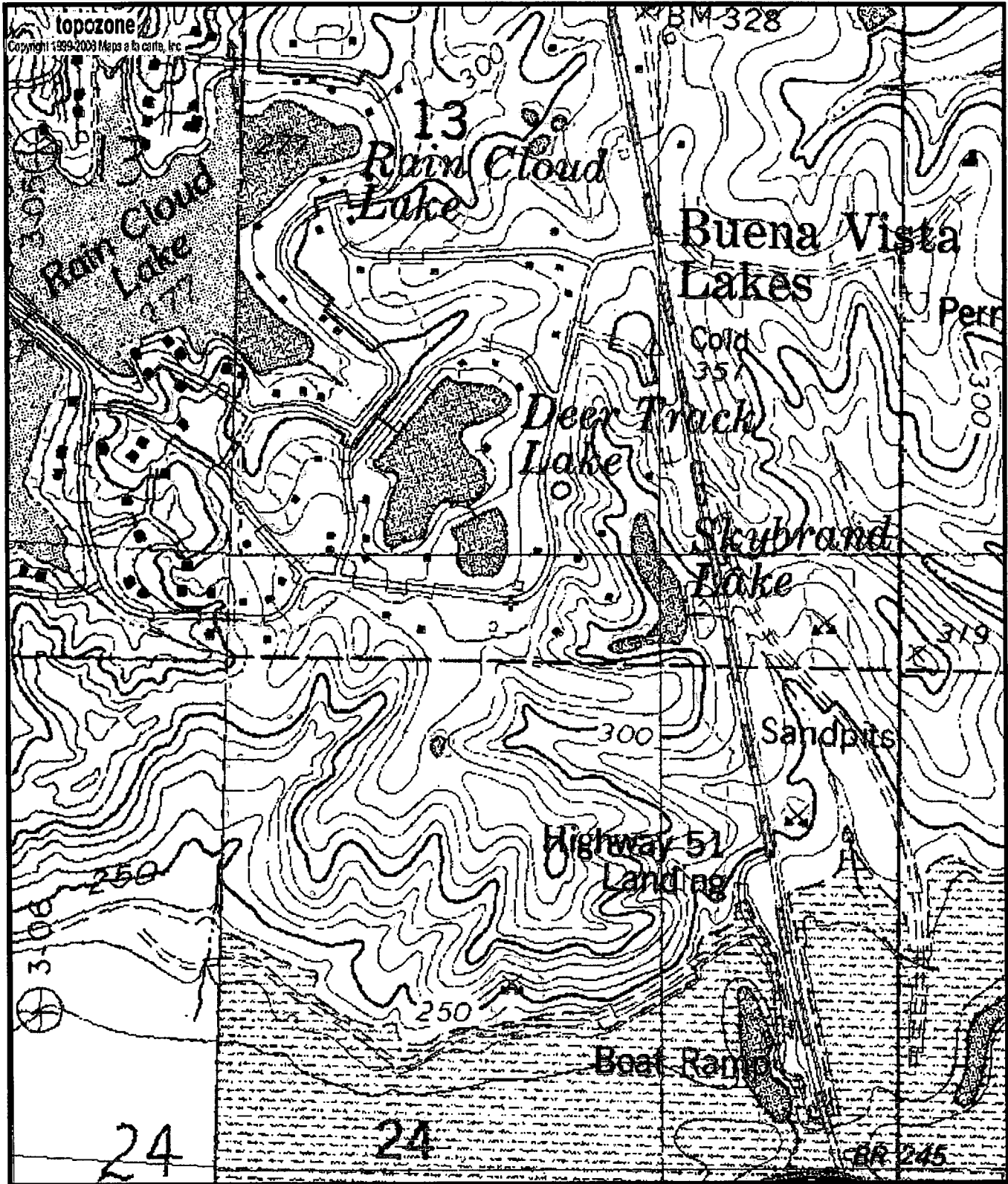
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

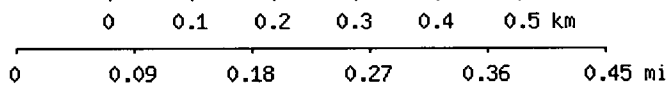
MEMPHIS, TENN. (I-240) 24 MI.
HERNANDO INTERCHANGE 5 MI.

3053 IV
(HERNA





0170020-02
6002419
K123



Map center is 34° 43' 47"N, 89° 59' 42"W (WGS84/NAD83)

Coldwater quadrangle

Projection is UTM Zone 16 NAD83 Datum

M=0.005
G=-1.708