

6/78-WTO

Recorded by WTO  
Date 11/28/78

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

Well No. K124  
E-Log No. \_\_\_\_\_  
County Desoto

50A

GEN. SITE DATA

Site ID 344349090593801 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=344349\* 10=0925938\* Well No. 12='K124'\*

Location 13=SWSE S13 T04 S R08 W\* Alt. 16=340.\* 343

Hyd. Unit (OWDC) 20=0903020\* Date 21=0510211978\*

Well use 23=W\* Water Use 24=I\* Hole depth 27=240.\* Well depth 28=240.\*

WL 30=52.\* Date 31=0510211978\* Source 33=D\*

Status 273=\* Project No. 5=

OWNER

R=158\* T=A\* Date 159#0510211978\* Owner No. \_\_\_\_\_

Owner 161=BUENA VISTA LAKE\* North MS utility Co PW SPRT

FIELD OW

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=

CONSTR.

R=58\* T=A\* 59#1\* Date 60=0510211978\* Remarks \_\_\_\_\_

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

CASING

R=76\* T=A\* 59#1\*

Top csng. 77#0.\* Bot. csng. 78=200.\* Diam. 79#6.\*

R=76\* T=A\* 59#1\*

Top csng. 77# Bot. csng. 78= Diam. 79#

OPENINGS

R=82\* T=A\* 59#1\* Top 83#200.\* Bottom 84=240.\*

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

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

Type 85= Diam. 87= Size 88=

FIELD

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

LIFT

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

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

LOGS

R=198\* T= A \* Log 199# D \* Top 200= 0. \* Bot 201= 240. \*

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 \*

ANAL

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

AQUIFERS

R=90\* T= A \* 256# 1 \* Top 91= 100. \* Bot 92= 240. \*

Unit ID 93= 124SPRT \* Name of Unit \_\_\_\_\_

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

Unit ID 93= \* Name of Unit \_\_\_\_\_

HYDRAULICS

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)/ft<sup>2</sup> \_\_\_\_\_

110= \* Storage coeff. Boundaries \_\_\_\_\_

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

Water Level Data Collection (1)

| description of formations encountered | from | to  |
|---------------------------------------|------|-----|
| blue sand                             | 0    | 5   |
| red clay                              | 5    | 50  |
| gravel                                | 50   | 60  |
| blue clay                             | 60   | 100 |
| white sand                            | 100  | 240 |

DESOTO  
K 124  
5-2-78

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

CODED

WATER WELL DRILLERS LOG

5-2-78 19 Paul Smith Weese Desoto  
date well completed firm name county well located

| LANDOWNER:  | description of formations encountered | from       | to         |
|---|---------------------------------------|------------|------------|
| <u>Buena Vista Lake</u>   |                                       |            |            |
| <u>Konardo, Miss.</u><br>(mailing address)  | <u>top soil</u>                       | <u>0</u>   | <u>5</u>   |
|   | <u>red clay</u>                       | <u>5</u>   | <u>50</u>  |
|   | <u>gravel</u>                         | <u>50</u>  | <u>60</u>  |
|   | <u>blue clay</u>                      | <u>60</u>  | <u>100</u> |
|   | <u>white sand</u>                     | <u>100</u> | <u>240</u> |
| WELL LOCATION:<br>sec <u>13</u> T <u>4</u> N R <u>8</u> E<br><u>7</u> miles <u>S</u> of <u>Konardo</u><br>(distance) (direction) (nearest town) |                                       |            |            |
| WELL PURPOSE:<br>(home, irrigation, municipal, industrial)  |                                       |            |            |
| WELL COMPLETION DATA:   |                                       |            |            |
| (1) diameter (inches) <u>6"</u>   |                                       |            |            |
| (2) total depth (feet) <u>240</u>   |                                       |            |            |
| (3) static water level (feet) <u>52</u> below above-top of ground   |                                       |            |            |
| (4) casing <u>plastic</u> <u>240</u><br>(material) (depth)  |                                       |            |            |
| _____<br>(size) if telescope see back.  |                                       |            |            |
| (5) screen <u>40</u> <u>200</u><br>(length) (depth to top)  |                                       |            |            |
| <u>4"</u><br>(size) <u>plastic</u><br>(material)  |                                       |            |            |
| (6) pump <u>15</u><br>(HP) (yield gpm)  |                                       |            |            |
| <u>E lu</u><br>(type power)   |                                       |            |            |
| (7) electric log (yes or no)  |                                       |            |            |
| _____<br>(organization running log)   |                                       |            |            |
| (8) how well bottom <u>plugged</u>  |                                       |            |            |
| DRILLERS REMARKS:   |                                       |            |            |
|   |                                       |            |            |
|   |                                       |            |            |
|   |                                       |            |            |

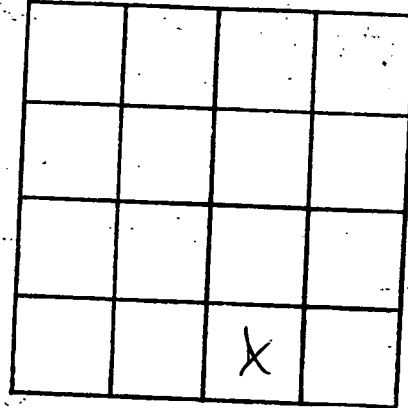
CODED

RECEIVED  
NOV 27 1978

MISS. BD. OF WATER COMM

If well telescopes please sketch and show depths.

GROUND LEVEL



SECTION \_\_\_\_\_

Please indicate well location X.

ADDITIONAL INFORMATION

Lined area for additional information.

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

**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.

FORM OLWR 10-1-90

|                        |                           |   |  |
|------------------------|---------------------------|---|--|
| Issued: <u>5-13-86</u> | Expires: <u>5-13-2006</u> | Fee Paid: <input checked="" type="checkbox"/> | Permit No. <u>GW-<del>12345</del></u>                              |
| Lat. <u>34 43 47 N</u> | Long. <u>89 59 43 W</u>   | Elev. _____                                   | USGS No. _____   |
| Quad. <u>Coldwater</u> | ASCS Farm No. _____       | STAC. _____                                   | MSDOH No. <u>DEC 27 1995</u>                                       |
| Aquifer: <u>SPRT</u>   | Tract No. _____           | Basin No. _____                               | Dam Inv. No. _____   |
| Remarks: _____         |                           |   | Dept. of Environmental Quality<br>Office of Land & Water Resources |

THIS APPLICATION IS FOR (Circle one):  NEW PERMIT  RENEWAL - PERMIT NO. 02420

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):

MAP SENT  
 (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)

- AQUIFER: \_\_\_\_\_ MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170020
- 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)? \_\_\_\_\_
- Description of proposed or completed well:
  - DEPTH OF WELL: 400 Feet. DRILLER: CARLOSS WELL SUPPLY
  - SURFACE CASING: Length 360 feet; Diameter \_\_\_\_\_ inches; Type STEEL
  - SCREEN: Length 40 feet; Diameter 6 inches; Type STAINLESS STEEL
  - PUMP: Type TURBIN; Size \_\_\_\_\_; Capacity 250 gallons per minute; Setting depth 160 feet
  - POWER UNIT: Type \_\_\_\_\_; Size \_\_\_\_\_ horsepower
- PERMITTED VOLUME :
  - \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute
  - .045 - .030 million gallons per day at a maximum rate of 250 ✓ gallons per minute

(CONTINUED ON BACK)

250

Del  
2-2-95

**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 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. \_\_\_\_\_

- 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 693 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>34000</u> | <u>2000</u> | <u>39000</u> | <u>2005</u> | <u>45000</u> | <u>2010</u> | <u>50000</u> | <u>2015</u> |
|                         | (Volume)     | (Year)      | (Volume)     | (Year)      | (Volume)     | (Year)      | (Volume)     | (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 22 day of December 19 95, at Hernando County of Mississippi  
My commission expires March 23, 1998 : Phonda Robinson (Notary) 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 \_\_\_\_\_  
Number of wells 2 PWS ID 0 1 7 0 0 2 0 Sheet No. 1 of 1

PWS Well ID No. 0 1 7 0 0 2 0 - 0 1 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

Remarks \_\_\_\_\_

PWS Well ID No. 0 1 7 0 0 2 0 - 0 2 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

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

MAB GW

MAB 2419

072

072

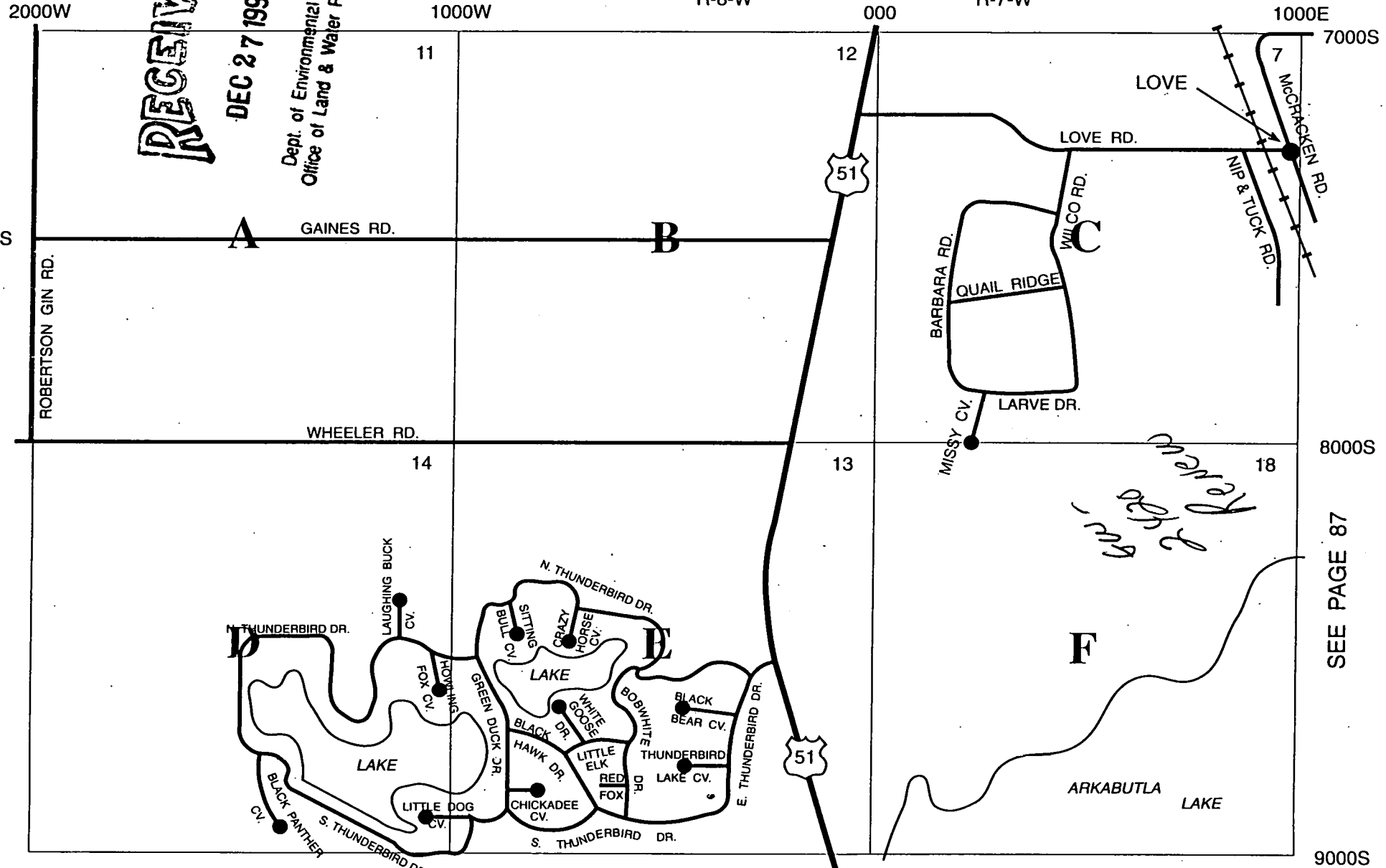
144 mgd

**RECEIVED**

**DEC 27 1995**

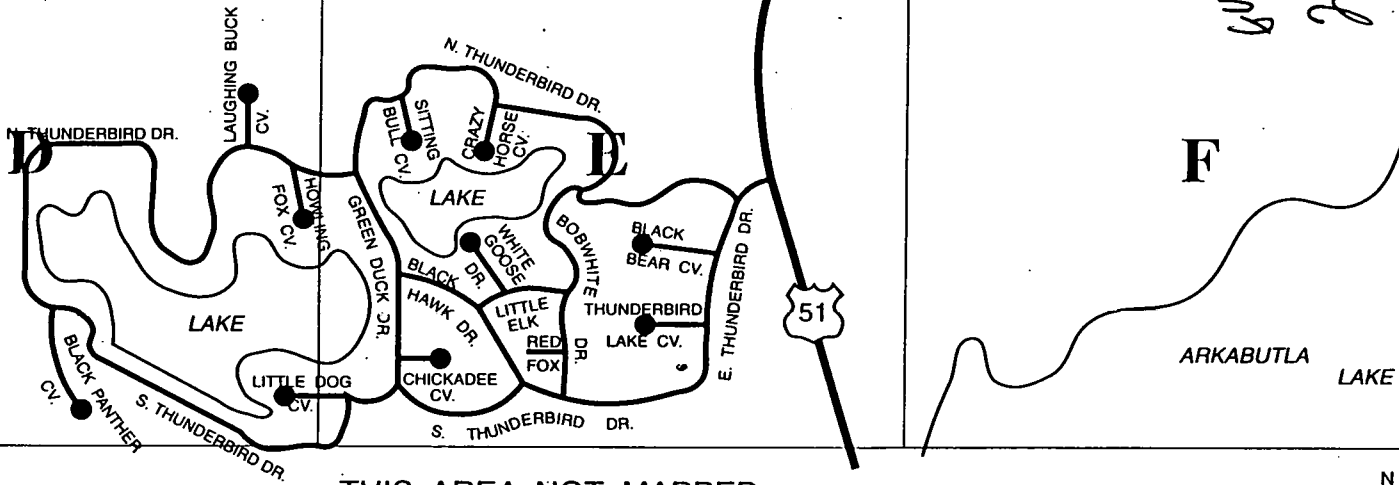
Dept. of Environmental Quality  
Office of Land & Water Resources

SEE PAGE 79



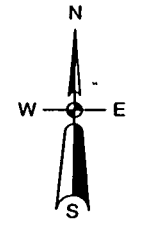
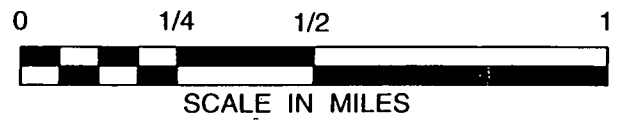
SEE PAGE 85

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THIS AREA NOT MAPPED

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DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

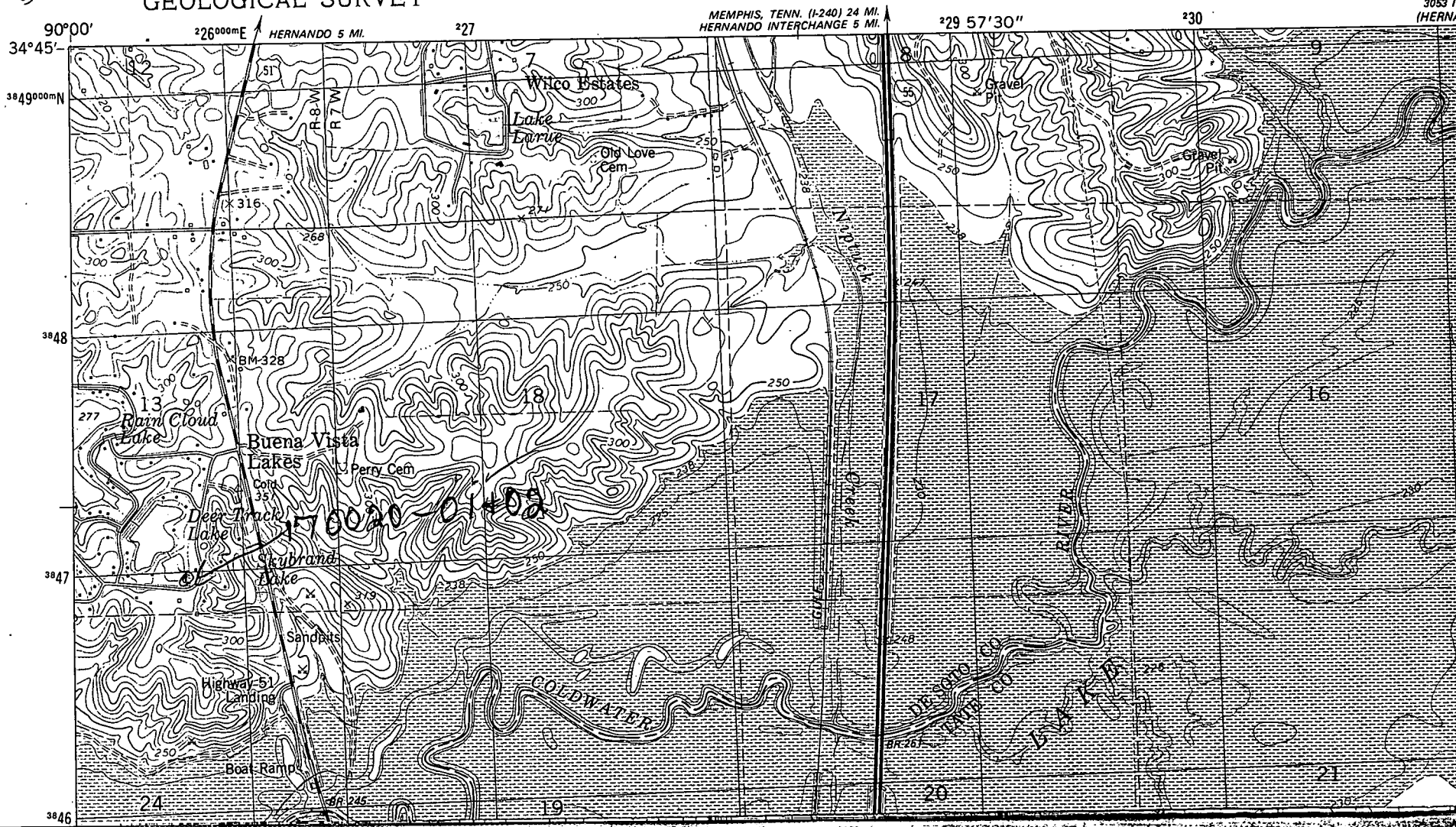
GPS LOG

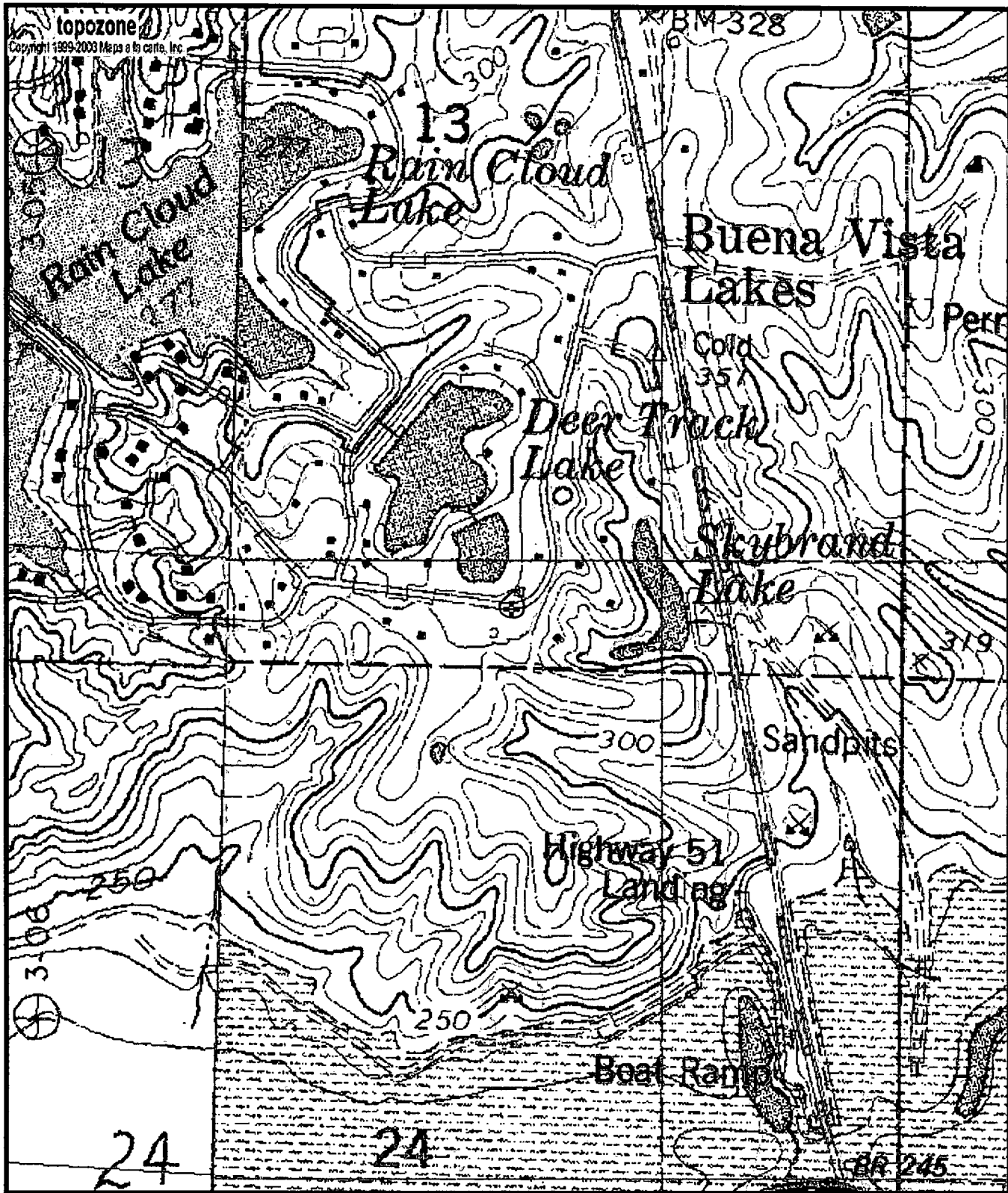
7-2396

USER NAME(S): EAR/DRTS DATE: 7/27/94  
UNIT DEQ #: 84890 FILE #: B072713A  
HEALTH DEPT. #: 170020-01 ELEV. 340  
USGS #: 495 K124 OLWR #: GW2420  
OWNER: DESOTO ULT. BUENA VISTA  
LOCATION: SW/SE/SW S 13 T 45 R 8W COUNTY: DESOTO  
LOCATION DESCRIPTION: Coldwater Quad. THUNDERBIRD RD. 1 MI NORTH of  
COUNTY LINE ON HWY 51  
CASING DIA: 10" PUMP TYPE & SIZE: TURBINE 30HP  
GPS FIELD LOCATION: LAT. 34.72958737 LONG. 89.99513116  
GPS CORRECTED LOCATION: LAT. \_\_\_\_\_ LONG. \_\_\_\_\_  
REMARKS: Well # 2 is 60' west of # 1

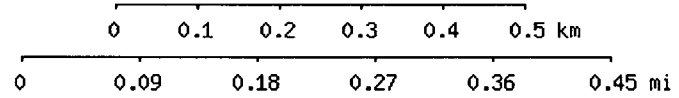
2953 / SE  
(FREE CORNERS)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY





0170020-01  
G002420  
K124



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