GW01812

DOH #170006-01

FORM 9-1642
(1-68)

Well No. J 5

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

TRANSMITTED FOR ADP

MASTER CARD

Record by B. D. Source of data Bowc Date 4-71 Map Banks **PUNCHED**

State 28 County (or town) De Soto 1 7

Latitude: 34 49 35 N (deg 7, min 9, sec 11) Longitude: 090 09 12 (degrees 12, min 15, sec 18) Sequential number: 1 19

Lat-long accuracy: 4 20 T. 3 S R 9 W Sec 16, NW ¼, NE ¼, NE ¼ B & M

Local well number: J 005 A 1603 S 09 W (21, 28, 30, 34) Other number:

DEC 9 1974 mLT

Local use: 064 (35, 40, 45, 51) Owner or name: North MS Utility Co.

Owner or name: EUDORA W A (52, 56, 61, 66) Address: Eudora

Ownership: (C) County, (F) Fed Gov't, (M) City, (N) Corp or Co, (P) Private, (S) State Agency, (W) Water Dist — N 67

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Med, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other — PW — P 68

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (O) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed. — W 69

DATA AVAILABLE: Well data (70) Freq. W/L meas.: Ø (71) Field aquifer char. (72)

Hyd. lab. data: (73)

Qual. water data; type: USGS 7/74 SPRT — C 74

Freq. sampling: Ø (75) Pumpage inventory: yes / no, period: (76)

Aperture cards: yes (77)

Log data: D 78 79

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD (19) Depth well: ft 373 (20, 23) Meas. rept accuracy 3 24

Depth cased (first perf.): ft 338 (25, 28) Casing type: Steel; Diam. in 12 (29, 30)

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (Ø) open end, (P) perf., screen, sd. pt., (S) shored, (T) open hole, (W) other — S 31

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot., (J) jetted, (P) air percussion, (R) reverse rotary, (T) trenching, (V) driven, (W) drive wash, (Z) other — H 32

Date Drilled: 9 6 7 (33, 35) Pump intake setting: ft (36, 38)

Driller: Layne - Con (name), (address)

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other — T 39 Deep Shallow 40

Power (type): diesel, elec, nat gas, gasoline, hand, LP gas, wind; H.P. 15 — U 41 Trans. or meter no.

Descrip. MP 312 ft above below LSD, Alt. MP

Alt. LSD: 300 (42, 45) Accuracy (source): 3 47

Water Level ft above below MP; Ft above below LSD 102 (46, 51) Accuracy: A 52

Date meas: 7-11-74 (53) 7 74 (55) Yield: 150 gpm (56, 60) Method determined 61

Drawdown: ft (62, 64) Accuracy: 65 Pumping period hrs (66, 68)

QUALITY OF WATER DATA: Iron ppm 69 Sulfate ppm 70 Chloride ppm 71 Hard. ppm 72

Sp. Conduct 400 K x 10^6 3 (73) Temp. °C 165 (74, 76) Date sampled 7-11-74 (77, 79) 7 74

Taste, color, etc. pH = 6.3

Well No. 4 5

TRANSMITTED FOR ADP

Well No. J5

Latitude-longitude ___ d m s N S d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (19)

Physiographic Province: 03 (20–21) Section:

D (22) Drainage Basin: 15E (23–25) Subbasin: (26)

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (O) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat (27)

MAJOR AQUIFER: system, series TE (28–29) aquifer, formation, group SS (30–31)

Lithology: US (32–33) Origin: 2 (34) Aquifer Thickness: 54 ft

(35–37) Length of well open to: 35 ft (38–40) Depth to top of: 328 ft (41–43)

MINOR AQUIFER: system, series (44–45) aquifer, formation, group (46–47)

Lithology: (48–49) Origin: (50) Aquifer Thickness: ft

(51–53) Length of well open to: ft (54–56) Depth to top of: ft (57–59)

Intervals Screened: 6" S

Depth to consolidated rock: ft (60–63) Source of data: (64)

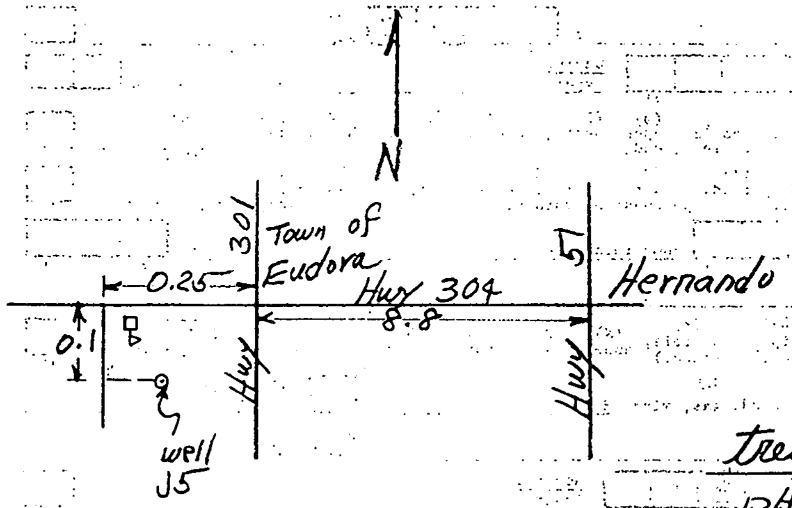
Depth to basement: ft (65–68) Source of data: (69)

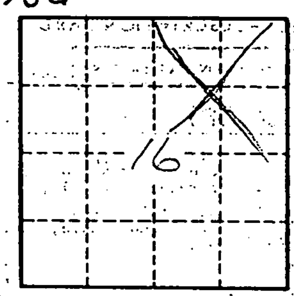
Surficial material: (70–71) Infiltration characteristics: (72)

Coefficient Trans: gpd/ft (73–75) Coefficient Storage: (76–78)

Coefficient Perm: gpd/ft^2; Spec cap: gpm/ft; Number of geologic cards: (79)

3-1967, W.L. by driller, = 106' below lsd





Well No. J5

treatment:
pH
aeration
chlorination
hardness

description of formations encountered	from	to
Clay	0-60	
sand-gravel	60-90	
hard clay-sand st.	90-135	
soapstone	135-304	
clay-sand st.	304-328	
sand	328-382	

GPO 937-142

DE3010
T5
3-67

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

WATER WELL DRILLERS LOG **CODED**

March 3, 1967 — date well completed
Layne-Central Co. — firm name
DeSoto — county well located

LANDOWNER:
Eudora Water Association
Eudora, Mississippi
(mailing address)

WELL LOCATION:
sec. 15 T 3 (N) (S) R 9 (E) (W)
1/2 miles E of Eudora
(distance) (direction) (nearest town)

WELL PURPOSE: Municipal
(home, irrigation, municipal, industrial)

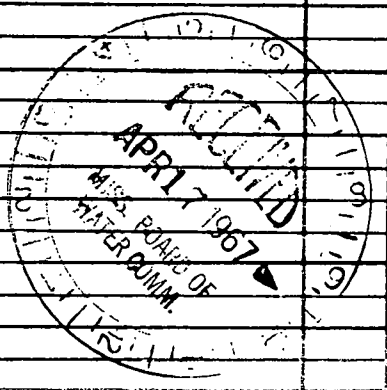
WELL COMPLETION DATA:

(1) diameter (inches) 8"
(2) total depth (feet) 382'
(3) static water level (feet) 106' below / above top of ground.
(4) casing steel pipe 338', (material) (depth),
-- (size) If telescope see back.
(5) screen 35' (length), 338' (depth to top)
6" (size), s. Keystone (material)
(6) pump 15 (HP) 150 (yield gpm)
electric (type power)
(7) electric log no (yes or no)
(organization running log)
(8) how well bottom plugged

DRILLERS REMARKS:

description of formations encountered		from	to
Clay	0-60		
sand-gravel	60-90		
hard clay-sand st.	90-135		
soapstone	135-304		
clay-sand st.	304-328		
sand	328-382		

CODED



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

RECEIVED
OCT 03 1995
Dept. of Environmental Quality
Office of Land & Water Res.

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: 3-11-86	Expires: 3-11-2006	Fee Paid: ✓	Permit No. GW-1812
Lat. 34 49 50 ok	Long. 90 08 59 ok	Elev. 310 ok	USGS No.
Quad. Banks	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: SPRT	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. MSGW 01812

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 COMPANY (Name) 64-0676172 (SSN or Tax ID No.)

P O BOX 362 (Address)

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

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

______ (Name) ______ (SSN or Tax ID No.)

MAP SENT

______ (Address)

______ (City) ______ (State & Zip) ( ) - (Telephone)

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):
ok NE 1/4 of the NE 1/4 of Section 16, Township 3S, Range 9W, 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.: 170006
2. Proposed work will begin on ______, 19____, and will be completed by ______, 19____. If well has already been drilled, when was well completed (date)? MARCH 16, 19 67. Under whose name was well originally drilled (if known)? EUDORA WATER ASSOCIATION
3. Description of proposed or completed well:
   (a) DEPTH OF WELL: 382 feet. DRILLER: LAYNE CENTRAL CO
   (b) SURFACE CASING: Length ______ feet; Diameter 8 inches; Type STEEL
   (c) SCREEN: Length 35 feet; Diameter 6 inches; Type STAINLESS STEEL
   (d) PUMP: Type LAYNE; Size 15 HP; 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) .08 ✓ million gallons per day at a maximum rate of 250 ✓ gallons per minute

.04 250

(CONTINUED ON BACK)

[initials] 7-9-91

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 375
   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? .12 (Volume); 2001 (Year); .14 (Volume); 2006 (Year); .17 (Volume); 2011 (Year); .22 (Volume); 2016 (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: THIS WELL IS ON THE SAME LOT AS MSGW #01810. THE CONSUMPTION FIGURES ARE THE SAME FOR BOTH WELLS SINCE THEY ALTERNATE PUMPING.

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

BILL J. ROBERSON, PRESIDENT
(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 29th day of Sept., 1995, at Hernando County of DeSoto

My commission expires March 23, 1998 : Rhonda Roberson Quiston Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

SHB + PEG

USER NAME(S): ~~LAC / DKB~~ DATE: 8-21-94 ~~7/26/94~~

UNIT DEQ #: ~~84090~~ 84759 FILE #: ~~D0726 21 A~~ A0821208

HEALTH DEPT. #: 170006-01 ELEV. 300

USGS #: 458 J5 OLWR #: MS-GW-01812

OWNER: N. MS. Util. / Eudora

LOCATION: NW/NE/NE S 16 T 3S R 9W COUNTY: DeSoto

BANKS QUAD

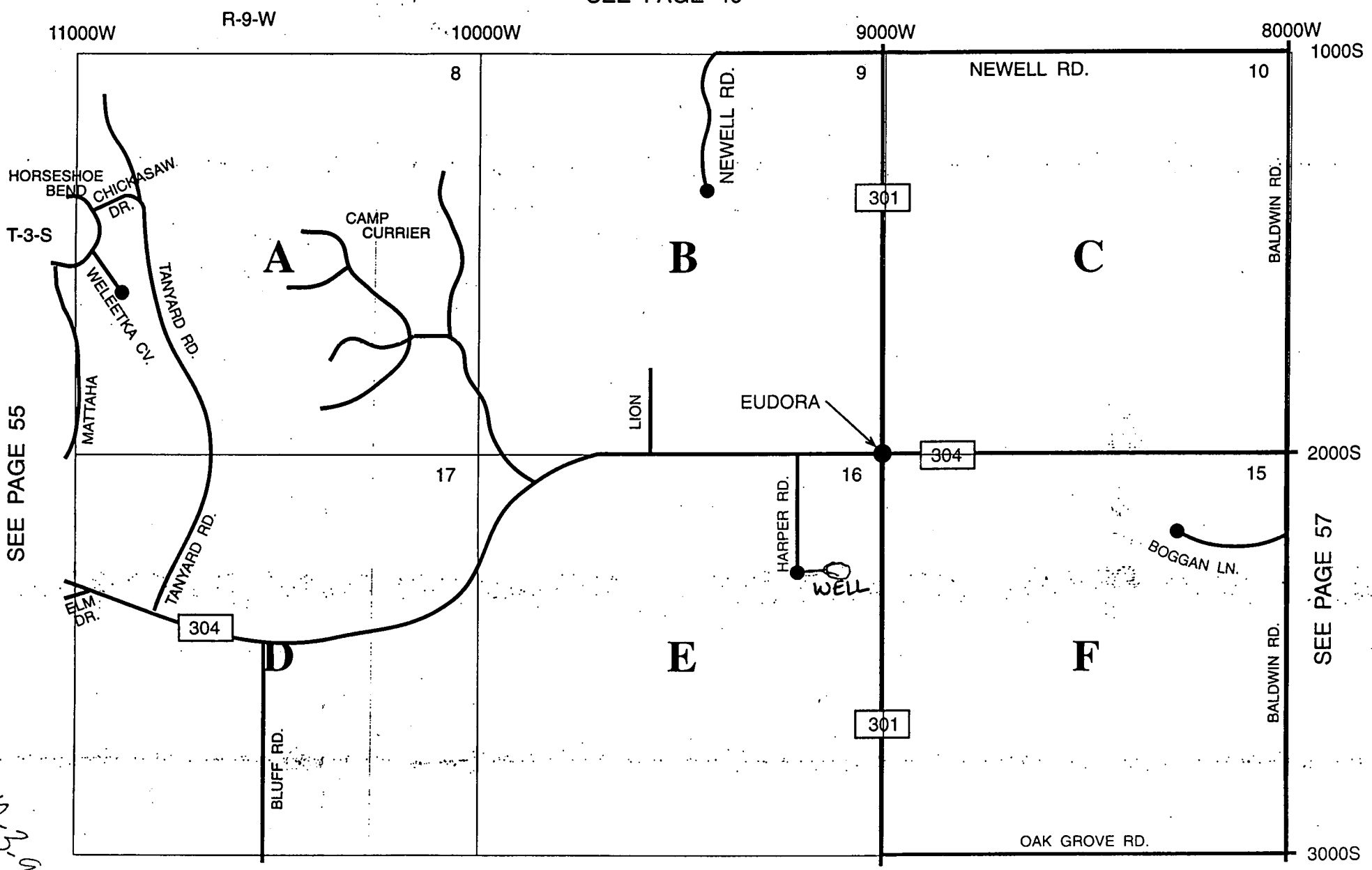
LOCATION DESCRIPTION: NW of silver tank.

CASING DIA: 8" PUMP TYPE & SIZE: Typhoon / 15

GPS FIELD LOCATION: LAT. ~~34-49-806~~ 34° 49' .853" N LONG. ~~90-09-145~~ 90° 09' .171" W

GPS CORRECTED LOCATION: LAT. 34.82971473 LONG. 90.15240892

REMARKS: Take Harper St. off Hwy 304 north to fire dept. follow around to fenced in treatment pt.



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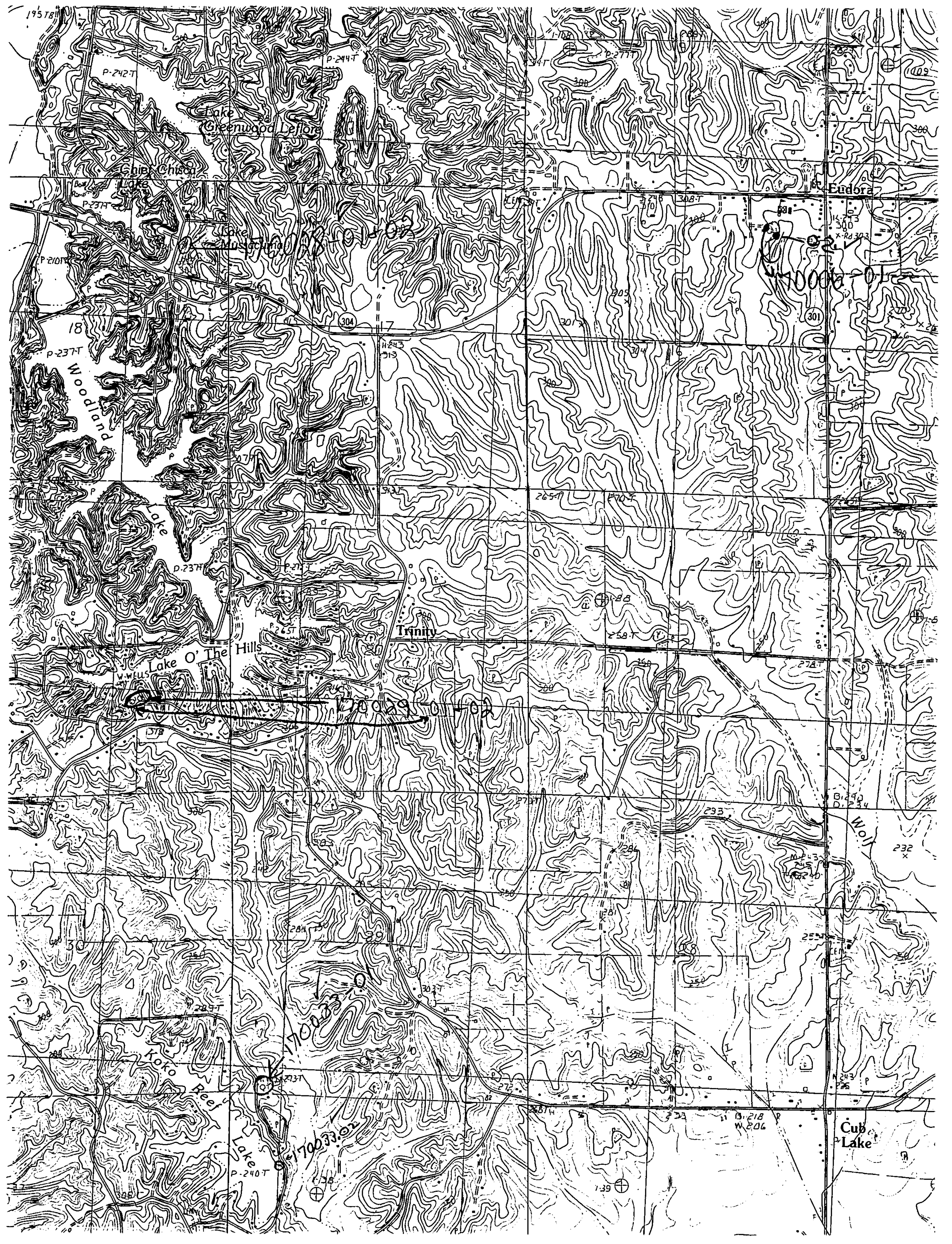
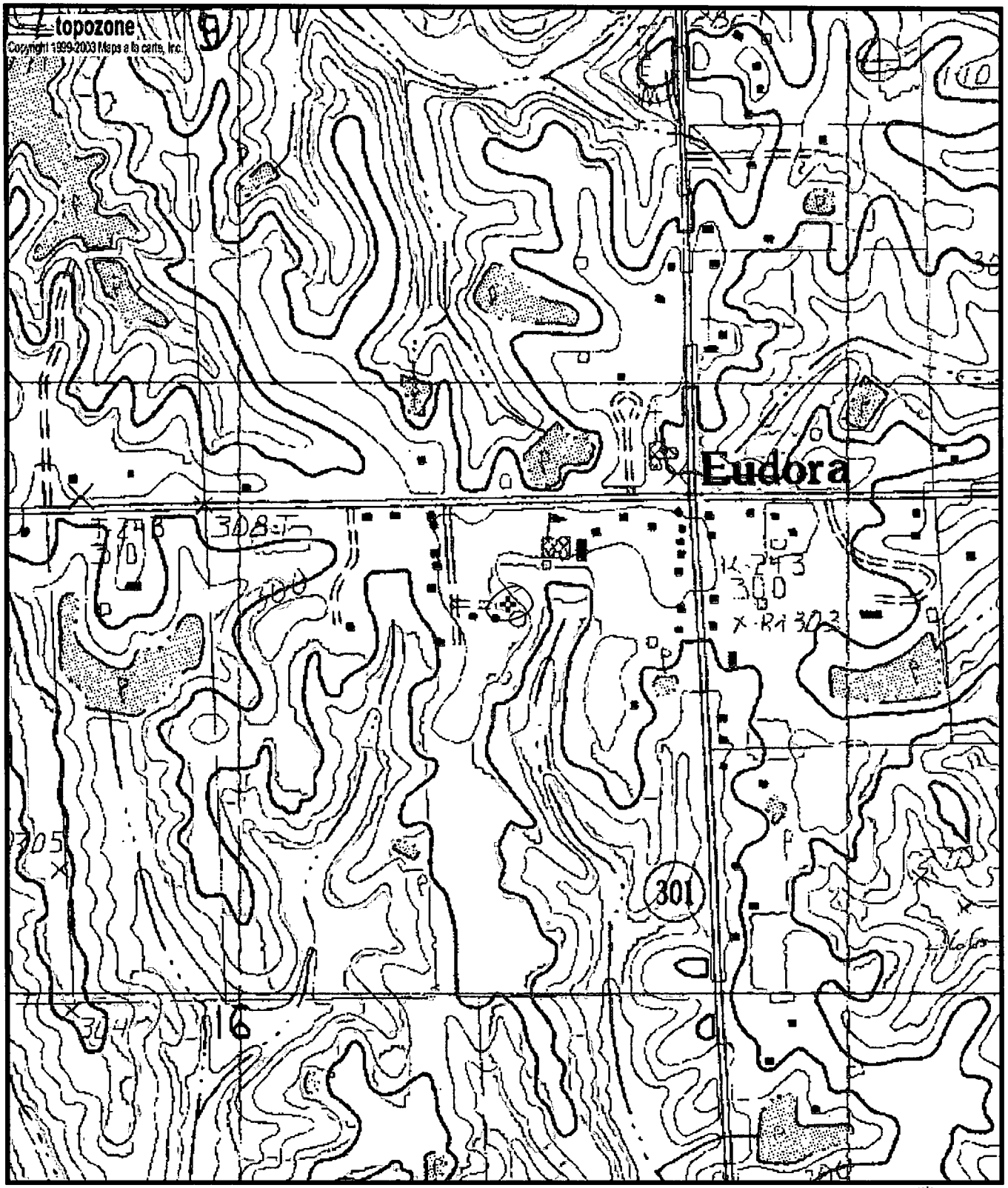


Lake Greenwood Leflore
Chief Chisca Lake
Eudora
Woodland Lake
Trinity
Lake O' The Hills
Cub Lake
Wolf



0170006-01
GW01812
J5

Map center is 34° 49' 47"N, 90° 09' 09"W (WGS84/NAD83)
Banks quadrangle
Projection is UTM Zone 15 NAD83 Datum

M=0.113
G=1.628