

325055090181001

TRANSMITTED FOR ADP  
Shady Grove  
268D 10/82

1/81 WTO

GW13040  
D.H.# 150002-01

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

Well No. Q22  
E-Log No. 273  
County Copiah

Recorded by WTD  
Date 6/3/82

Site ID 325055090181001 R=0\* T=A\* 2=W\*

Data reliab. 3=U\* Report. agency 4=USGS\* Dist. 6=28\* 7=28\* Co. 8=029\*

Lat. Long. 9=325047\* 10=0901810\* Well No. 12=Q022\*

Location 13=SWSE s 0.9 T 10 N R 0.9 E\* Alt. 16=460. 440

Hyd. Unit (OWDC) 20=03180003\* Date 21=0312511982\*

Well use 23=W\* Water Use 24=P\* Hole depth 27=1012. Well depth 28=600.\*

WL 30=171.\* Date 31=0512811982\* Source 33=D\*

Status 273= Project No. 5=

GEN. SITE DATA

OWNER

R=158\* T=A\* Date 159# 0512811982\* Owner No.

Owner 161# COPIAH WA

FIELD QW

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# 1211011982\* pH 196#00400\* 197=5.4\*

CONSTR.

R=58\* T=A\* 59#1\* Date 60=0512811982\* Remarks

Drlg. 63=064\* Name Jayne Method 65=H\* Finish 66=B\*

CASING

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

Top csgn. 77# 0.\* Bot. csgn. 78=538.\* Diam. 79# 12.\*

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

Top csgn. 77# 468.\* Bot. csgn. 78=549.\* Diam. 79#

OPENINGS

R=82\* T=A\* 59#1\* Top 83# 549.\* Bottom 84=600.\*

Type 85=S\* Diam. 87=8.\* Size 88=

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

Type 85= Diam. 87= Size 88= 3/19/02 RLB/DO

YIELD

R=146\* T=A\* 147# 1\* Q 150=400.\* Q/S 272=17.8\*

**LIFT**  
 R=42\* T= A \* Lift type: 43# T\* Intake 44= \* Power type 45= E\*  
 Date 38= 05/28/1982\* H.P. 46= 40.\*

**LOGS**  
 R=198\* T= A \* Log 199# E\* Top 200= 15.\* Bot 201= 950.\*  
 R=198\* T= A \* Log 199# D\* Top 200= 0.\* Bot 201= 1012.\*  
 R=189\* T= A \* E Log No. 190# 273\* 191= M I S S D I S T\*

**ANAL**  
 R=114\* T= A \* Year 115# \* 117= \* 120= \*

**ACQUITERS**  
 R=90\* T= A \* 256# 1\* Top 91= 545.\* Bot 92= 600.\*  
 Unit ID 93= 122CTHL\* 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)

27' dde @ 480 gpm  
 rpt

| description of formations encountered | from | to   |
|---------------------------------------|------|------|
| clay and sand                         | 0    | 10   |
| sand                                  | 10   | 50   |
| clay                                  | 50   | 92   |
| hard clay                             | 92   | 160  |
| clay and sand stks.                   | 160  | 185  |
| clay                                  | 185  | 279  |
| sand                                  | 279  | 298  |
| sandy clay                            | 298  | 342  |
| clay                                  | 342  | 463  |
| sandy clay                            | 463  | 509  |
| clay                                  | 509  | 534  |
| sand                                  | 534  | 610  |
| clay                                  | 610  | 658  |
| sand                                  | 658  | 693  |
| clay                                  | 693  | 711  |
| rock                                  | 711  | 712  |
| clay                                  | 712  | 730  |
| rock                                  | 730  | 732  |
| clay                                  | 732  | 754  |
| sand                                  | 754  | 815  |
| clay and sand stks.                   | 815  | 61   |
|                                       | 61   | 1012 |



COPIAH  
Q22  
5-28-82  
Elog #273

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

**CODED**

WATER WELL DRILLERS LOG

May 28 19 82 Layne Central Company Covich  
date well completed firm name county well located

| LANDOWNER:   | description of formations encountered | from | to  |
|--|---------------------------------------|------|-----|
| Covich Water Association, Inc.                         | clay and sand                         | 0    | 1   |
| Gallman, MS 39077                                      | sand                                  | 10   | 5   |
| (mailing address)                                      | clay                                  | 50   | 9   |
| WELL LOCATION:   | hard clay                             | 92   | 16  |
| sec. 9 T. 10 N R. 1 W                                  | clay and sand stks.                   | 160  | 18  |
| (distance) (direction) of (nearest town)               | clay                                  | 185  | 27  |
| WELL PURPOSE: domestic                                 | sand                                  | 279  | 29  |
| (home, irrigation, municipal, industrial)              | sandy clay                            | 298  | 34  |
| WELL COMPLETION DATA:                                  | clay                                  | 342  | 46  |
| (1) diameter (inches) 12"                              | sandy clay                            | 463  | 50  |
| (2) total depth (feet) 606'6"                          | clay                                  | 509  | 53  |
| (3) static water level (feet) 171 below top of ground. | sand                                  | 534  | 61  |
| (4) casing steel 538' (material) (depth)               | clay                                  | 610  | 65  |
| 12" (size) if telescope sep. back. & 70' of 8"         | sand                                  | 658  | 69  |
| (5) screen 51' 70' (length) (depth to top)             | clay                                  | 693  | 71  |
| 8" wire wrapped (size) (material)                      | rock                                  | 711  | 71  |
| (6) pump 40 400 (HP) (yield gpm)                       | clay                                  | 712  | 73  |
| Electric (type power)                                  | rock                                  | 730  | 73  |
| (7) electric log yes (yes or no)                       | clay                                  | 754  | 81  |
| Layne Central Company (organization running log)       | sand                                  | 815  | 6   |
| (8) how well bottom plugged back pressure valve        | clay and sand stks.                   | 61   | 101 |
| DRILLERS REMARKS:                                      |                                       |      |     |

DEPT. OF NATURAL RESOURCES  
BUREAU OF LAND & WATER RESOURCES

JUN - 8 1982  
RECEIVED

The box below is for office use only.

MOCN

Q-22

|                          |                           |  |                            |
|--------------------------|---------------------------|--|----------------------------|
| Issued: <u>10-8-91</u>   | Expires: <u>10-8-2001</u> | Fee Paid <input checked="" type="checkbox"/> | Permit No. <u>GW-13040</u> |
| Lat. <u>31-50-55</u>     | Long. <u>90-18-08</u>     | Elev. <u>450</u>                             | USGS No.                   |
| Quad. <u>SHADY GROVE</u> | Dist.                     |  | Basin No. <u>03180003</u>  |
| STAC                     |                           |  | Dam Inv. No.               |
|                          |                           |  | Dam appl. No.              |

Dept. of Natural Resources, Bureau of Land and Water Resources, P.O. Box 10631, Jackson, MS 39207-0631

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

RECEIVED

OCT 05 1990

This application is for (circle one): GROUNDWATER SURFACE WATER

Beneficial Use (circle one or more): Irrigation Fish Culture Municipal Rural Water Association Industrial

Recreation Institutional (Examples: Church, School) Commercial (Examples: Hotel, Restaurant) Livestock Standby

Fire Protection Flood Protection Other: \_\_\_\_\_

**LANDOWNER:**

Copiah Water Association, Inc. 64-0475110  
 (Name) (S/S or Tax ID No.)  
P. O. Box 325  
 (Address)  
Gallman MS 39077  
 (City) (State and Zip) (601) 892-3738  
 (Telephone Number)

HD # 150002-01

**APPLICANT, AGENT, OR LESSEE** (If different from Landowner):

(Name) \_\_\_\_\_ (S/S or Tax ID No.) \_\_\_\_\_  
 (Address) \_\_\_\_\_  
 (City) \_\_\_\_\_ (State and Zip) \_\_\_\_\_ (Telephone Number) \_\_\_\_\_

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

SW 1/4 of the SE 1/4 of Section 9, Township ~~2N~~ 10N, Range 9E, County Copiah

**Volume of water diverted/withdrawn** (Choose "a", "b", "c", or "d" ["d" is for units other than those shown in "a", "b", or "c"]):

- (a) \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute
- (b) .22 million gallons per day at a maximum rate of 400 gallons per minute
- (c) \_\_\_\_\_ acre feet of storage at normal pool
- (d) \_\_\_\_\_ per \_\_\_\_\_ at a maximum rate of \_\_\_\_\_

Construction of proposed work will begin on (date) \_\_\_\_\_, 19\_\_\_\_ and will be completed by (date) \_\_\_\_\_, 19\_\_\_\_.

Water will be used from (month) January to (month) December each year.

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 numbers.

**SECTION A** (to be completed if application is for surface water source)

- Source of water is from \_\_\_\_\_ which drains into \_\_\_\_\_ which drains into \_\_\_\_\_ which drains into \_\_\_\_\_
- Description of pump/diversion works:
  - (a) Pump (size and type): \_\_\_\_\_ Power Unit (size and type): \_\_\_\_\_  
 Lift: \_\_\_\_\_ feet Maximum capacity: \_\_\_\_\_ gallons per minute.
  - (b) Name of storage reservoir: \_\_\_\_\_ Dam height: \_\_\_\_\_ feet.  
 Surface area at normal pool: \_\_\_\_\_ acres. Storage capacity at normal pool: \_\_\_\_\_ acre-feet.

(Continued on back)

**SECTION B** (to be completed if application is for groundwater source)

1. Source of water is \_\_\_\_\_ aquifer.
2. Description of proposed water well:
  - (a) DEPTH OF WELL: 700 (607) feet. DRILLER (name): Layne Central
  - (b) SURFACE CASING: Length: \_\_\_\_\_ feet. Diameter: 6 1/2 inches. Type: Welded Steel
  - (c) SCREEN: Length: 40 feet. Diameter: 8 inches. Type: SSWW
  - (d) PUMP: Type: Vertical Turbine Size: 8. Capacity: 400 gallons per minute.  
Number of stages: \_\_\_\_\_ Setting depth: \_\_\_\_\_ feet.
  - (e) POWER UNIT: Type: \_\_\_\_\_ Size: \_\_\_\_\_ horsepower.
  - (f) TYPE OF COMPLETION: Gravel Pack

**WATER USE DATA**

If for IRRIGATION, FISH CULTURE or any other areal use, show the number of acres to which water will be applied in the appropriate 40-acre block(s). Acreage must be shown on accompanying location map.

| TOWN-SHIP | RANGE | SECTION | NE1/4 |       |       |       | NW1/4 |       |       |       | SW1/4 |       |       |       | SE1/4 |       |       |       | TOTALS |
|-----------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|           |       |         | NE1/4 | NW1/4 | SW1/4 | SE1/4 | NE1/4 | NW1/4 | SW1/4 | SE1/4 | NE1/4 | NW1/4 | SW1/4 | SE1/4 | NE1/4 | NW1/4 | SW1/4 | SE1/4 |        |
|           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
|           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
|           |       |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |

1. IRRIGATION: List the number of acres of each crop to be irrigated: Rice \_\_\_\_\_; Cotton \_\_\_\_\_; Soybeans \_\_\_\_\_; Corn \_\_\_\_\_; Pasture \_\_\_\_\_; Truck \_\_\_\_\_; Wheat \_\_\_\_\_; Oats \_\_\_\_\_; Grain sorghum \_\_\_\_\_; Other (specify) \_\_\_\_\_ Acres
2. FISH CULTURE: Explain how water will be used: \_\_\_\_\_  
How often will reservoir(s) be emptied and refilled? \_\_\_\_\_
3. MUNICIPAL or WATER ASSOCIATION  
Choose "a" or "b". (a) The number of people served is \_\_\_\_\_. (b) The number of connections/customers 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 years?  

|          |        |          |        |          |        |          |        |
|----------|--------|----------|--------|----------|--------|----------|--------|
| 218,000  | 1990   | 240,000  | 1995   | 264,000  | 2000   | 290,000  | 2005   |
| (Volume) | (Year) | (Volume) | (Year) | (Volume) | (Year) | (Volume) | (Year) |
4. INDUSTRIAL: If water is to be released into a watercourse, indicate the amount released each year \_\_\_\_\_  
Rate of release \_\_\_\_\_; Location of release point in reference to diversion/withdrawal point \_\_\_\_\_  
\_\_\_\_\_; Explain any change in quality of water to be released: \_\_\_\_\_  
NPDES Permit No. \_\_\_\_\_  
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: \_\_\_\_\_

REMARKS: \_\_\_\_\_

List below the person to be contacted for additional information if required:  
Jeff Brown Alford Engineering  
 (Name)  
P. O. Box 16621  
 (Address)  
Jackson, MS 39236-6621  
 (City, State, Zip)  
601/362-7450  
 (Telephone)

The accompanying map is hereby declared a part of this application. The TEN DOLLAR (\$10.00) permit fee is enclosed herewith.

Jeff Brown (Signature)

Subscribed and sworn to before me this 4th day of October 19 90, at Jackson, MS  
 County of Hinds. My commission expires MY COMMISSION EXPIRES 7-17-01  
Rosa McCain, Notary Public

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

Hornbeak

7/24/96

USER NAME(S): LAC / DRB DATE: 8/22/94

UNIT DEQ #: 82555 82859 FILE #: B072423A  
6082315A

HEALTH DEPT. #: 150002-01 ELEV. 466

USGS #: Q-22 OLWR #: 13040

OWNER: COPIAH W.A. QUAD: SHADY GROVE ✓

LOCATION: 5E-5W-4E 9 10N 9E  
SW 1/4 SW 1/4 S 18 T 10N R 10E COUNTY: COPIAH ✓

LOCATION DESCRIPTION: 3.2 MI. SE of SHADY GROVE Rd. ON

HWY 472E AT ELEV. TANK. ON SOUTH Side of Hwy,

CASING DIA: 8" PUMP TYPE & SIZE: TURBINE 40 HP. ✓

GPS FIELD LOCATION: LAT. 31° 50' 53.6" LONG. 90° 18' 10.0"

GPS CORRECTED LOCATION: LAT. 31.84849171 LONG. 90.30227585

REMARKS: GPS at well.

3/19/02 Redone by DC/RLB

31.84843 90.30230

150007-01

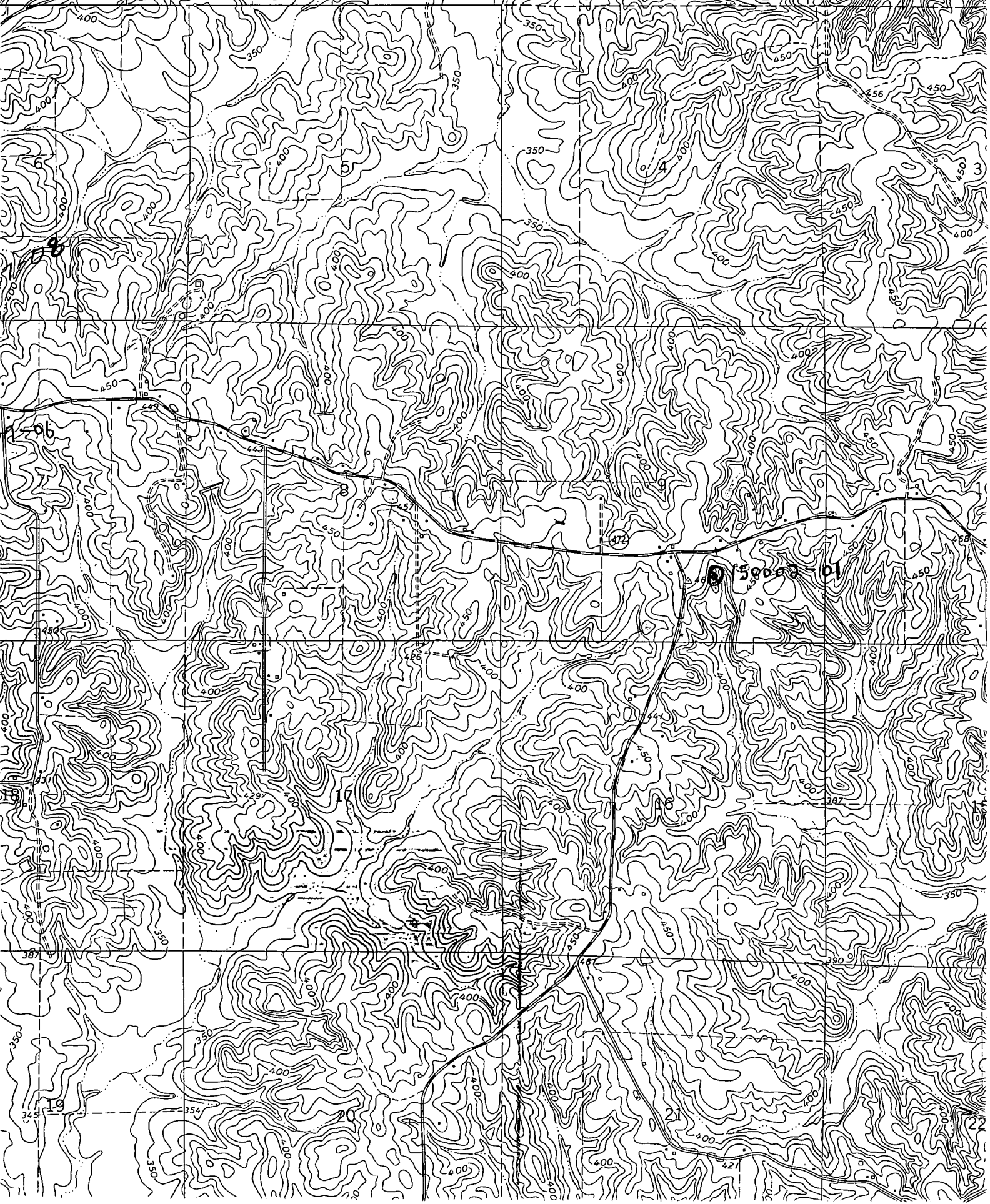
GW13040 922

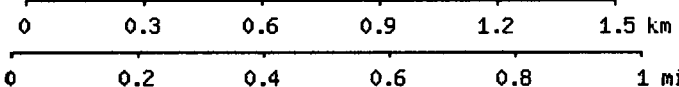




SE, SW, NE

16EE 40 MI. OWN 10 MI. 20' 753 2947 IV NE (CRYSTAL SPRINGS) 755 756 17'30"





Map center is 31° 50' 55"N, 90° 18' 08"W (WGS84/NAD83)  
**Shady Grove** quadrangle - TopoZone Pro elevation display  
Projection is UTM Zone 15 NAD83 Datum

