GW 9727
DOH # 150009-01

FORM 9-1642 (1-68)

Well No. D87

E log # 227

WELL SCHEDULE

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

MASTER CARD

Record by: Q — Source of data: Bowc MGS — Date: 8/74 — Map: Gallman

State: Miss 28 — County (or town): Copiah 15

Latitude: 31 59 19 N — Longitude: 090 23 23 — Sequential number: 1

Lat-long accuracy: 2 — T 2 N, R 2 W, Sec 27, SW NE NW NE

Local well number: D087 A2702N02W — Other number: TH #5 B&M Site #4

Local use: 064227 — Owner or name: Copiah-New Zion

Owner or name: COPIAH NEW ZION — Address: Copiah-New Zion W.A

1943.5' W + 220.5' S of NE corner of section

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

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 — WA — P

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

DATA AVAILABLE: Well data [ ] — Freq. W/L meas.: [O] — Field aquifer char. [ ]

Hyd. lab. data: [ ]

Qual. water data; type: [ ]

Freq. sampling: [ ] — Pumpage inventory: yes no, period: [ ]

Aperture cards: MOCN yes [ ]

Log data: E log 13'-528' — DE

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD — Depth well: 515 ft — Meas. rept accuracy: 3

Depth cased (first perf.): 465 ft — Casing type: ; Diam. 12x8 in — 12

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

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

Date Drilled: 7-19-74 — 974 — Pump intake setting: ft

Driller: Singer Layne (name), Jackson (address)

Water level 10/29/81
190.
5.37
187.63
-1.90
182.73

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 — Deep Shallow

Power (type): diesel, elec, nat gas, gasoline, hand, LP gas, wind; H.P. 75 — V — Trans. or meter no.

10/29/81

Descrip. MP 374 ft above below LSD, Alt. MP

Alt. LSD: 373 — Accuracy (source): topo — 4

Water Level: ft above below MP; Ft above below LSD 105 — Accuracy: D

Date meas: 874 — Yield: 300 gpm — Method determined

4/26/95
218

Drawdown: ft — Accuracy: — Pumping period hrs

QUALITY OF WATER DATA: Iron ppm — Sulfate ppm — Chloride ppm — Hard. ppm

Sp. Conduct K x 10^6 — Temp. °F — Date sampled

Taste, color, etc.

Well No.

U.S. G.P.O. 1972/720-793/96/1303

6/15/94 CAR/DRB

Well No. _____

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

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD (1–19) Physiographic Province: _____ 03 (20–21) Section: _____

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

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

MAJOR AQUIFER: _____ system, _____ series TM (28–29) _____ aquifer, formation, group CA (30–31)

Lithology: _____ S (32–33) Origin: _____ 3 (34) Aquifer Thickness: 75 ft

(35–37) Length of well open to: _____ ft 50 (38–40) Depth to top of: _____ ft 450 (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: _____

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)

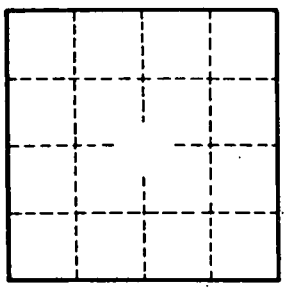
Coefficient Trans: _____ gpd/ft (73–75) Coefficient Storage: _____ (76–78)

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

275gpm @ 100' 4/26/85

Static WL: 210.64 35.63 dd 8.8 gpm/ft.

pumping WL: 249.27



Well No.

Sd gravel Clay 0-30

Clay hard 32-148

Sdy Clay 148-183

Clay 183-445

GPO 937-142

COPIAH
D 87
8-19-74
Elog # 227

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

0927

WATER WELL DRILLERS LOG

5/14 1974 Singer-Layne Central Div Copiah
date well completed — firm name — county well located

LANDOWNER: New Zion Water Association
Crystal Springs, Miss.
(mailing address)

WELL LOCATION:
sec. 27 T 2 N R 2 W
(distance) miles (direction) of (nearest town)

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

WELL COMPLETION DATA:

(1) diameter (inches) 12"
(2) total depth (feet) 525'
(3) static water level (feet) 105 below above top of ground.
(4) casing Steel (material), 465' (depth),
12" (size) + 65' 8 8" If telescope see back.
(5) screen 50' (length), 465' (depth to top)
8" (size), St. Steel W.W. (material)
(6) pump 75 (HP) - 300 (yield gpm)
Electric (type power)
(7) electric log Yes (yes or no)
Miss. Geo. Survey (organization running log)
(8) how well bottom plugged Valve

DRILLERS REMARKS:

description of formations encountered	from	to
Sand-Gravel & Clay	0	30
Clay, Hard and Soft	30	148
Sand & Clay Streaks	148	183
Clay, Hard & Soft	183	445
Sand	445	530
Clay	530	533

CODED

RECEIVED
AUG 22 1974
MISS. BOARD OF WATER COMM.

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

RECEIVED
JAN 14 1998
Dept. of Environmental Quality
Office of Land & Water Resources

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. 3-10-98 AGN.

Issued: 7-26-88	Expires: 3-10-2008	Fee Paid: X 30.00	Permit No.
Lat. 31-59-24	Long. 90-23-18	Elev. 368	USGS No. D87
Quad. GALLMAN	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: MOCN	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT (RENEWAL) PERMIT NO. GW-009727

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: COPIAH-NEW ZION WATER ASSOCIATION, INC. (Name) 910-009-780 (SSN or Tax ID No.)

P.O. BOX 309 (Address)

CRYSTAL SPRINGS (City) MS 39059 (State & Zip) (601) 892 - 1205 (Telephone No.)

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

ALFORD ENGINEERING (Name) ~~64-0693723~~ (SSN or Tax ID No.)

MAP SENT

P.O. BOX 16621 (Address) (SAME AS ABOVE)

JACKSON (City) MS ~~39236-6621~~ (State & Zip) (601) 362 - ~~7450~~ (Telephone)

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

NW 1/4 of the NE 1/4 of Section 27, Township 2N, Range 2W, County COPIAH

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. 247 GPM (PERMIT NO. GW-009729)
250 GPM (PERMIT NO. GW-009728)
300 GPM

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: MIOCENE MISSISSIPPI DEPARTMENT OF HEALTH NO.: 150009-~~02~~ 01
2. Proposed work will begin on _____, 19_____, and will be completed by _____, 19_____. If well has already been drilled, when was well completed (date)? AUGUST 14, 19 74. Under whose name was well originally drilled (if known)? COPIAH-NEW ZION WATER ASSOCIATION, INC.
3. Description of proposed or completed well:
   (a) DEPTH OF WELL: 525 feet. DRILLER: LAYNE-CENTRAL CO.
   (b) SURFACE CASING: Length 465 feet; Diameter 12 inches; Type WELDED STEEL
   (c) SCREEN: Length 50 feet; Diameter 8 inches; Type WIRE WRAPPED SS.
   (d) PUMP: Type GE; Size 50 HP; Capacity 289 gallons per minute; Setting depth _____ feet
   (e) POWER UNIT: Type ELECTRIC; Size 50 horsepower
4. PERMITTED VOLUME:
   (a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
   (b) ~~.076~~ 0.12 million gallons per day at a maximum rate of 289 gallons per minute
   ~~0.285~~ 289

(CONTINUED ON BACK)

BB 2.2.98

#1

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 1,011
   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? 80,000 (Volume) 2003 (Year); 84,000 (Volume) 2008 (Year); 88,000 (Volume) 2013 (Year); 92,000 (Volume) 2018 (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.

S. F. ALFORD, III, P.E.
(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.
For irrigation and fish culture use, an ASCS photograph is required.
The **TEN DOLLAR ($10.00) permit fee** is enclosed herewith.

S. F. ALFORD, III, P.E.

Subscribed and sworn to before me this 9TH day of JANUARY 19 98, at _____ County of HINDS

My commission expires My Commission Expires May 2, 1998; _____ Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): LAK / DCB DATE: 6/15/94

UNIT DEQ #: 82859 FILE #: A06I713A

HEALTH DEPT. #: 150009-01 ELEV. 360

USGS #: ~~D-89~~ D87 OLWR #: ~~9729~~ GW9727

OWNER: NEW ZION W. A.

LOCATION: NE/NW/NE S 27 T 2N R 2W COUNTY: Copiah

LOCATION DESCRIPTION: 1/4 mi. North of road, Fenced-in.

CASING DIA: 12" PUMP TYPE & SIZE: Turbine / 50

GPS FIELD LOCATION: LAT. 31-59-22 LONG. 90-23-14

31-59-369 N 90-23-209 W

GPS CORRECTED LOCATION: LAT. 31 59 23.488 LONG. 90 23 12.273

31.989858 90.3867425

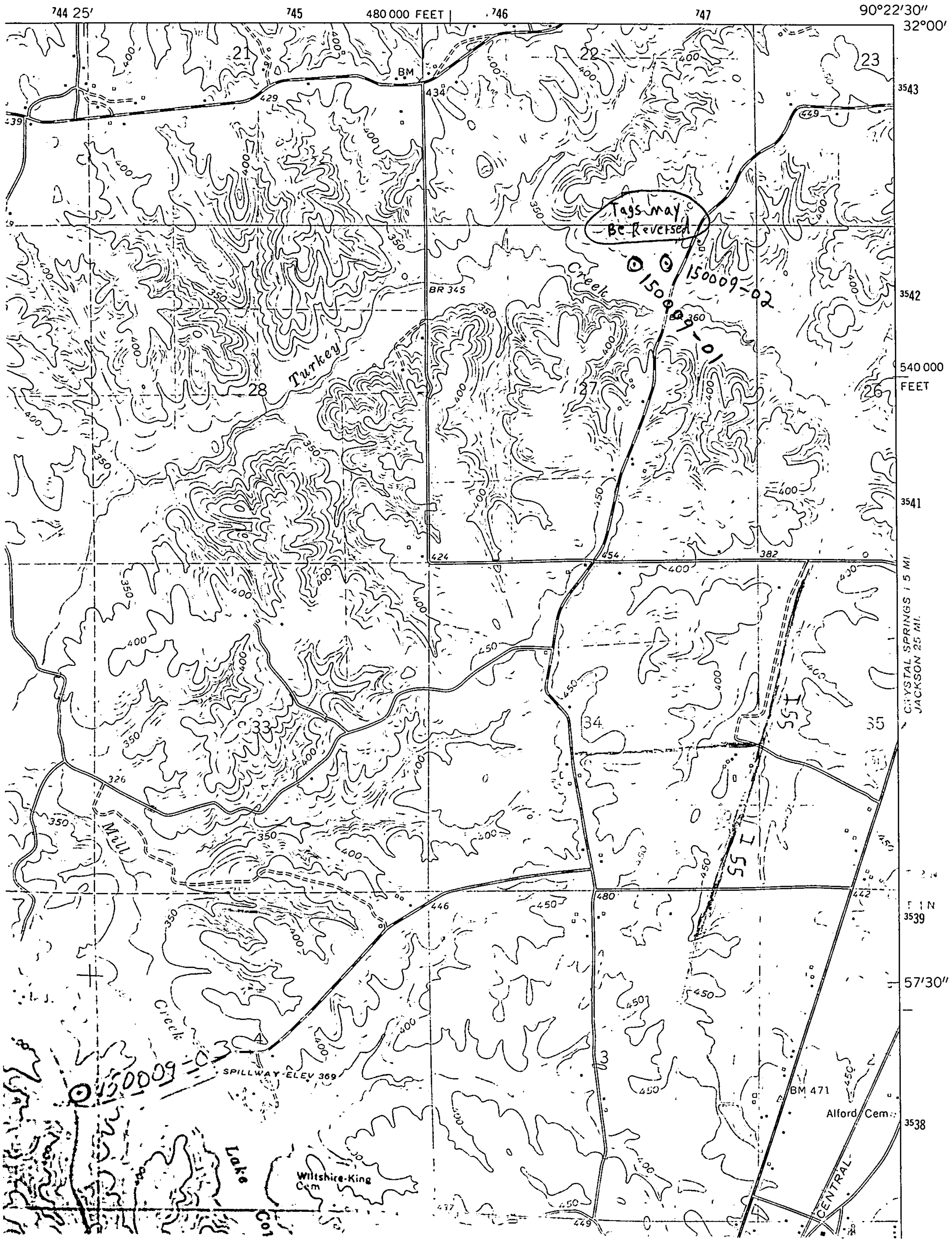
REMARKS: TAKE DEES Rd. off Utica Rd.

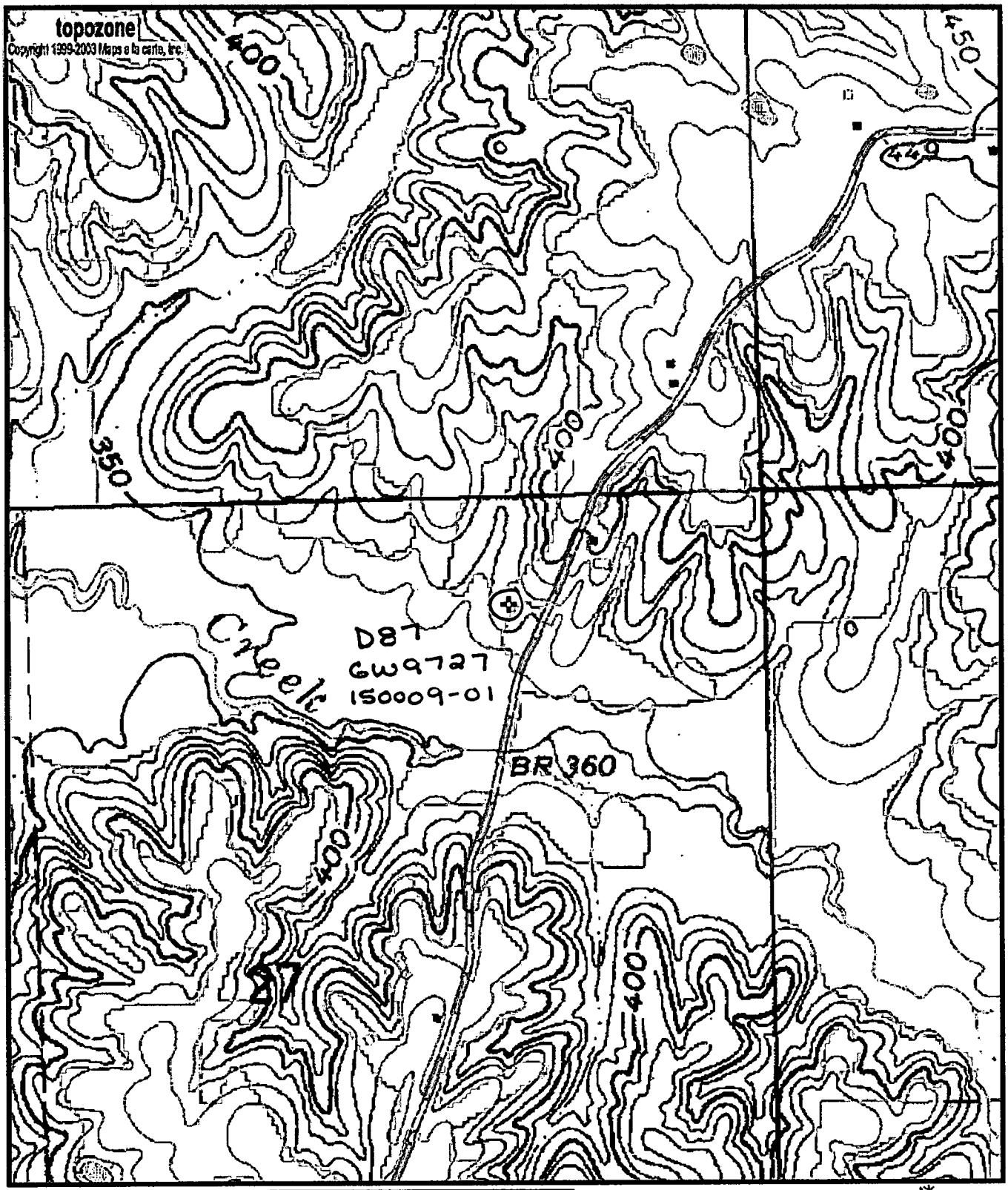
Galloway Quad.

~~Crystal Springs Quad.~~

GALLMAN QUADRANGLE
MISSISSIPPI–COPIAH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

2948 III SE
(TERRY)





0 0.1 0.2 0.3 0.4 0.5 km

0 0.1 0.2 0.3 0.4 0.5 mi

Map center is 31° 59' 24"N, 90° 23' 12"W (WGS84/NAD83)
Gallman quadrangle - TopoZone Pro elevation display
Projection is UTM Zone 15 NAD83 Datum

M=0.729
G=1.385