GW9729
DOH # 150009-02

FORM 9-1642
(1-68)

Well No. D89
Elog #233

WELL SCHEDULE

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

MASTER CARD

Record by Q Source of data MSGS Date 6/75 Map Gallman

State MS [28] County (or town) COPIAH [15]

Latitude: [31 59 19 N] Longitude: [090 23 09] Sequential number: [1]

Lat-long accuracy: [2] T 20 S, R 2 W Sec 27, SE NE ¼, NE ¼

Local well number: [D089AA2702NO2W] Other number: #2 B & M

Local use: [064233]

Owner or name: [NEW ZION WA] Address:

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

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

Hyd. lab. data: [ ]

Qual. water data; type: [ ]

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

Aperture cards: MOCN yes [ ]

Log data: Elog 56' - 524' [DF]

WELL-DESCRIPTION CARD

[SAME AS ON MASTER CARD] Depth well: [515] ft Meas. rept [3]

Depth cased; (first perf.) [469] ft Casing type: ; Diam. 12 x 8 accuracy in [12]

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (Φ) 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: [975] Pump intake setting: ft

Driller: Singer Layne (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] Deep Shallow [ ]

Power (type): diesel, elec, nat gas, gasoline, hand, LP gas, wind; H.P. 50 [V] Trans. or meter no.

Descrip. MP 372 ft above below LSD, Alt. MP

Alt. LSD: [380] Accuracy: (source) topo [3]

Water Level ft above below MP; Ft above below LSD [115] Accuracy: [D]

Date meas: [675] Yield: gpm [350] Method determined

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.

6/15/94 LAR/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, (O) 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: _____ US (32–33) Origin: _____ 3 (34) Aquifer Thickness: 55 ft

(35–37) Length of well open to: _____ ft 50 (38–40) Depth to top of: _____ ft 460 (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)

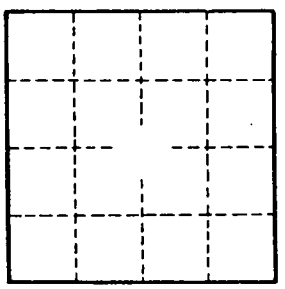
Depth to basement: _____ ft (65–68) Source of data: _____ (69)

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)

460' 12"
64' 8"



Well No.

0-35 Clay
35-50 Clay
50-125 Clay hard
125-185 Sd + Clay
185-420 Blue Clay

GPO 937-142

Copiah
B-90 D31
6/22/75
W.W. # 33

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

CODED

WATER WELL DRILLERS LOG

6-22- 19 75 Singer-Layne Central Div Copiah
date well completed — firm name — county well located

LANDOWNER: Copiah-Hewzion Water Association

Crystal Springs, Miss
(mailing address)

WELL LOCATION:
sec. 27 T 2 N R 2 W 15L

2 miles W of Crystal Spring
(distance) (direction) (nearest town)

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

WELL COMPLETION DATA:

(1) diameter (inches) 12"

(2) total depth (feet) 520'

(3) static water level (feet) 115' below above top of ground.

(4) casing Steel (material), 460' (depth),
12 (size) + 64' 8" If telescope see back.

(5) screen 50' (length), 464' (depth to top)
8" (size), Stainless Steel WW (material)

(6) pump 50 (HP) 350 (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
Clay	0	35
Hard Clay	35	50
Clay and Hard Strks.	50	125
Sand and Clay	125	185
Blue Clay	185	420
Sand	420	435
Clay	435	450
Sand and Clay Breaks	450	515
Clay	515	536

CODED

JUN 25 1975

MISS. BD. 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.

FORM OLWR-AP-2 (REV. 9/94)

Issued: 7-26-88	Expires: 3-10-2008	Fee Paid: +	Permit No.
Lat. 31-59-26	Long. 90-23-13	Elev. 369	USGS No. D89
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-009729

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):

MAP sent

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

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. 289 GPM (PERMIT NO. GW-009727)
250 GPM (PERMIT NO. GW-009728)
300 GPM

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: MIOCENE MISSISSIPPI DEPARTMENT OF HEALTH NO.: 150009-01 02
2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____. If well has already been drilled, when was well completed (date)? JUNE 19, 19 75. 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: 520 feet. DRILLER: LAYNE-CENTRAL CO.
   (b) SURFACE CASING: Length 460 feet; Diameter 12 inches; Type WELDED STEEL
   (c) SCREEN: Length 50 feet; Diameter 8 inches; Type WIRE WRAPPED S.S.
   (d) PUMP: Type GE; Size 50 HP; Capacity 247 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) ~~.065~~ 0.240 0.10 million gallons per day at a maximum rate of 247 gallons per minute

BB 2-2-98

(CONTINUED ON BACK)

247

#2

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?

68,000	2003	71,000	2008	75,000	2013	79,000	2018
(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)	(Volume)	(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): LAR/DCB DATE: 6/15/94

UNIT DEQ #: 82859 FILE #: A0617138

HEALTH DEPT. #: 150009-02 ELEV. 370

USGS #: ~~D-87~~ D89 OLWR #: ~~9727~~ 6W9729

OWNER: NEW ZION W. A.

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

LOCATION DESCRIPTION: 250' N. to Right turn, to go to well. Well Rd. About 300' E of Bridge. Turkey Crk.

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

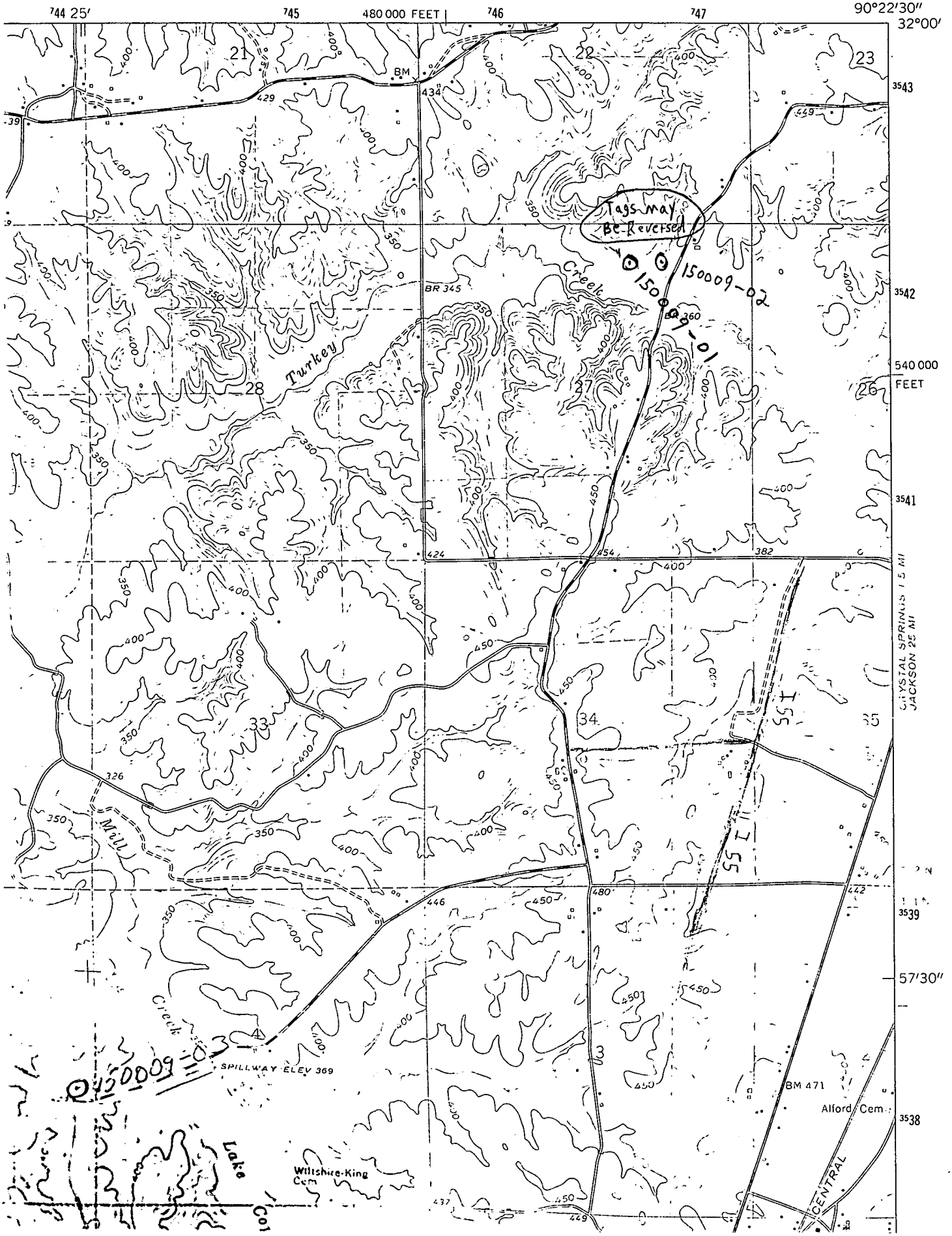
GPS FIELD LOCATION: LAT. 31-59-22 / 31-59-436 N LONG. 90-23-25 / 90-23-311 W

GPS CORRECTED LOCATION: LAT. 31 59 26.160 / 31.990600 LONG. 90 23 19.166 / 90.388657

REMARKS: WELL NUMBER LOCATION REVERSED ON PRINT-OUT.

~~[illegible] Springs Road~~

Gallman


GALLMAN QUADRANGLE
MISSISSIPPI–COPIAH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
2948 III SE
(TERRY)
744 25′
745
480 000 FEET
746
747
90°22′30″
32°00′
Tags may Be Reversed
150009-01
150009-02
150009-03
Turkey Creek
Mill Creek
BR 345
SPILLWAY ELEV 369
Lake
Willshire-King Cem
BM 471
Alford Cem
CENTRAL
CRYSTAL SPRINGS 15 MI
JACKSON 25 MI
540 000 FEET
3543
3542
3541
3539
3538
57′30″