Well No. D87

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

MASTER CARD

Record by: Q
Source of data: P
date: 8/74
Map: Gallman

State: NV
County: Copiah

Lat/lon: 31°51'44"N 115°07'19"W
Local well number: 0187A27027N012W
Local use: W

Ownership: County, Fed Govt, City, Corp or Co, Private, State Agency, Water Dist

Use of: Air cond, Bottling, Comm, Dewater, Power, Fire, Don, Irr, Med, Ind, P S, Rec,
Stock, Instit, Unused, Repressure, Recharge, Diesel-P S, Diesel-other, Other

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed

DATA AVAILABLE:

Hyd, lab, data:
Qual, water data:
Freq, sampling:
Pump inventory:
Aperture cards:
Log data:

WELL DESCRIPTION CARD

Depth well: 146.5
Meas. rep: 3

Depth cased: 51.5
Accuracy: 2

Finish: concrete, (open), (screen), gallery, end
Method: air bored, cable, dug, jet, other
Drilled: air reverse trenching, driven, drive

Date Drilled: 7-1-71

Singer Lame:

Water level:

Alt. LSD: 374
Accuracy: 4

Date测: 8/74

Drawdown: 110.5
Accuracy: 6

QUALITY OF WATER DATA:
Iron: 15
Sulfate: 90
Chloride: 23
Hard: 71

Date sampled: 7/8

Temp: 74

Source of data: topo

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

4/18/94 CAR/DRB
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Well No.</td>
<td>03</td>
</tr>
<tr>
<td>Latitude-longitude</td>
<td>N 24° 31' 51.88&quot; S 89° 45' 57.14&quot;</td>
</tr>
<tr>
<td>Physiographic Province</td>
<td>D</td>
</tr>
<tr>
<td>Drainage Basin</td>
<td>15L</td>
</tr>
<tr>
<td>Section</td>
<td></td>
</tr>
<tr>
<td>Topo of well site</td>
<td>(B) (C) (E) (P) (H) (X) (L)</td>
</tr>
<tr>
<td>Deposition, stream channel, dunes, flat, hilltop, sink, swamp, offshore, pediment, hillside, terrace, undulating, valley flat</td>
<td></td>
</tr>
<tr>
<td>MAJOR AQUIFER</td>
<td>system, series</td>
</tr>
<tr>
<td>Aquifer, formation, group</td>
<td>3</td>
</tr>
<tr>
<td>Aquifer Thickness</td>
<td>75 ft</td>
</tr>
<tr>
<td>Lithology</td>
<td></td>
</tr>
<tr>
<td>Origin</td>
<td>3</td>
</tr>
<tr>
<td>Depth to top of well open to</td>
<td>4,570 ft</td>
</tr>
<tr>
<td>MINOR AQUIFER</td>
<td>system, series</td>
</tr>
<tr>
<td>Aquifer, formation, group</td>
<td></td>
</tr>
<tr>
<td>Aquifer Thickness</td>
<td></td>
</tr>
<tr>
<td>Lithology</td>
<td></td>
</tr>
<tr>
<td>Origin</td>
<td></td>
</tr>
<tr>
<td>Depth to top of well open to</td>
<td></td>
</tr>
<tr>
<td>Intervals Screened</td>
<td>64</td>
</tr>
<tr>
<td>Depth to consolidated rock</td>
<td>64</td>
</tr>
<tr>
<td>Source of data</td>
<td>64</td>
</tr>
<tr>
<td>Depth to basement</td>
<td>64</td>
</tr>
<tr>
<td>Source of data</td>
<td>64</td>
</tr>
<tr>
<td>Surficial material</td>
<td>Infiltration characteristics</td>
</tr>
<tr>
<td>Coefficient Trans</td>
<td>gpd/ft²</td>
</tr>
<tr>
<td>Coefficient Storage</td>
<td>72</td>
</tr>
<tr>
<td>Perm</td>
<td>gpm/ft²</td>
</tr>
<tr>
<td>Spec cap</td>
<td>Number of geologic cards</td>
</tr>
</tbody>
</table>

275 gpm @ 100 ft Hg 4.26.85

Static WL: 218.6 ft 8.19 gpm/pf

Pump WL: 249.2 ft
**WATER WELL DRILLERS LOG**

**Date well completed:** 1974

**Landowner:** New Zion Water Association

**Mailing address:** Crystal Springs, Miss.

**Well Location:**

- **X:** 37T 3N R 1W
- **Distance:** 5 miles
- **Direction:** 30°
- **Nearest town:** Crystal

**Well Purpose:** Sand, Irrigation, Municipal, Industrial

**Well Completion Data:**

<table>
<thead>
<tr>
<th>Description/Measurement</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (inches)</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>Total depth (feet)</td>
<td>525</td>
<td></td>
</tr>
<tr>
<td>Static water level (foot) above top of ground</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>Casing (material)</td>
<td>Steel</td>
<td></td>
</tr>
<tr>
<td>(depth)</td>
<td>465'</td>
<td></td>
</tr>
<tr>
<td>Screen (material)</td>
<td>Steel</td>
<td></td>
</tr>
<tr>
<td>(depth)</td>
<td>465'</td>
<td></td>
</tr>
<tr>
<td>Pump (HP)</td>
<td>15</td>
<td>300</td>
</tr>
<tr>
<td>(yield gpm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Drillers Remarks:**
APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW WATER 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

Issued: 2-26-88  Expires: 3-10-2008  Fee Paid: $10,00  Permit No:
Lat 31° 59' 24"  Long 90° 23' 18"  Elev. 348  USGS No. DB7
Quadrant: GALLMAN  ASCS Farm No: STAC  MDWQO No: 487
Aquifer: MOON  Tract No:
 Remarks:

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, 2) Irrigation
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.  910-009-780
(Name) (SSN or Tax ID No.)
P.O. BOX 309
(Address)
CRYSTAL SPRINGS MS 39059 (601) 892-1205
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):
ALFORD ENGINEERING  66-0693721
(Name) (SSN or Tax ID No.)
P.O. BOX 14621
(Address)
JACKSON MS 32936-6621 (601) 362-7450
(City) (State & Zip) (Telephone)

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application): 47 GPM (PERMIT NO. GW-009729)
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)

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__ 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) ______________ million gallons per day at a maximum rate of __________ gallons per minute

(CONTINUED ON BACK)
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. Description 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 IMPROVEMENTS (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 Sorghum: __________________
   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 __________________
   What is the estimated average daily consumption during periods of minimum use at the end of each five-year period during the
   next twenty (20) years? __________________ (Volume) __________________ (Year)
   2003 : __________________ (Year) __________________ (Volume) 2008 : __________________ (Year) __________________ (Volume)
   2013 : __________________ (Volume) __________________ (Year) 2018: __________________ (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, 1998 at __________________
County of HINDS __________________
My commission expires May 2, 1998 __________________
Notary Public.
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S):  DJK/DEB       DATE:  6/15/94
UNIT DEQ #:  82839        FILE #:  9061713A
HEALTH DEPT. #:  150009-01        ELEV.  360
USGS #:  D87 D87 OLWR #:  9729 GW9727
OWNER:  NEW ZION W. A.
LOCATION:  NE/NW/NE S 37 T 2N R 8W        COUNTY:  Copiah
LOCATION DESCRIPTION:  1/4 mi. north of road, fenced-in

CASING DIA:  12"       PUMP TYPE & SIZE:  Turbine 1.50
GPS FIELD LOCATION:  LAT.  31° 59' 22"       LONG.  90° 22' 14"
GPS CORRECTED LOCATION:  LAT.  31° 59' 23.428"       LONG.  90° 22' 12.273"
REMARKS:  DEES Rd.,  OF  Uteca Rd.

Galloway, Quei

[Signature]