### Water Well Record

**Well Record Number:** 4857  
**Location:** Clarksdale, MS  
**County:** Coahoma  
**Date Recorded:** 9/17/79  
**Recorded by:** LAG

<table>
<thead>
<tr>
<th>Data Field</th>
<th>Value</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Site ID</td>
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<tr>
<td>Data Reliability</td>
<td>3*3C<strong>C</strong></td>
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</tr>
<tr>
<td>Lat. Long.</td>
<td>0°34<code>13.0&quot;, 90°8</code>32.3&quot;</td>
<td></td>
</tr>
<tr>
<td>Well No.</td>
<td>12&quot;K0S8&quot;</td>
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</tr>
<tr>
<td>Hole Depth</td>
<td>27`1.23&quot;</td>
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</tr>
<tr>
<td>Well Use</td>
<td>23</td>
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<tr>
<td>Water Use</td>
<td>24</td>
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<tr>
<td>Temp.</td>
<td>196.900010</td>
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<tr>
<td>Cond.</td>
<td>196.900015</td>
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<td>pH</td>
<td>196.900040</td>
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<tr>
<td>Yield</td>
<td>147.1</td>
<td>134 flows, 146 pumped</td>
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</tbody>
</table>

**Notes:**  
- **Owner:** 161, Lyons  
- **Drill:** 63°, 0.6"A  
- **Method:** Lyons Memphis  
- **Finish:** 66°, 5"  
- **Remarks:**  
  - Depth: 60`, 0.9`, 23`, 19.78"  
  - Source: 33", D"  
  - Type: 85", S"  
  - Top Depth: 830`, 11`, 6", 5"  
  - Bottom Depth: 84", 12`, 2.6"  
  - Relationship: 147`, 1"  
  - Q: 150", 3.0"  
  - Q/S: 272"
<table>
<thead>
<tr>
<th>description of formations encountered</th>
<th>from</th>
<th>to</th>
</tr>
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<tbody>
<tr>
<td>Clay</td>
<td>0</td>
<td>30</td>
</tr>
<tr>
<td>Sand and gravel</td>
<td>30</td>
<td>116</td>
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<tr>
<td>Rock</td>
<td>116</td>
<td>117</td>
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<tr>
<td>Sand and gravel</td>
<td>118</td>
<td>178</td>
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<tr>
<td>Gray Clay</td>
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<td>114</td>
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<tr>
<td>Sand and Clay</td>
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<tr>
<td>Medium Sand</td>
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<td>324</td>
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<td>Lignite</td>
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<td>335</td>
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<tr>
<td>Sand</td>
<td>335</td>
<td>345</td>
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<tr>
<td>Sand clay and lignite</td>
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<td>514</td>
</tr>
<tr>
<td>Tough Clay and Shale</td>
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<td>629</td>
</tr>
<tr>
<td>Sandy Clay + sand Shale</td>
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<td>691</td>
</tr>
<tr>
<td>Med Coarse Sand + Clay Shale</td>
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<tr>
<td>Clay</td>
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<tr>
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<td>Sandy Clay + Rock</td>
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<td>864</td>
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<td>Sandy Shell + Rock</td>
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<td>Hard Shale + Rock</td>
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<td>Med Fine Sand + Clay Shale</td>
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<td>987</td>
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<tr>
<td>Clay + Sand Shale</td>
<td>987</td>
<td>1012</td>
</tr>
<tr>
<td>Clay + Sandy Clay Shale</td>
<td>1012</td>
<td>1049</td>
</tr>
<tr>
<td>Pink Sand + Clay + L</td>
<td>1049</td>
<td>1123</td>
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<tr>
<td>Clay + Sand Shale</td>
<td>1123</td>
<td>1159</td>
</tr>
<tr>
<td>Med Sand + Clay Shale</td>
<td>1159</td>
<td>1271</td>
</tr>
</tbody>
</table>

**Water Level Data Collection (1)**

**Hydraulics**

- Transmissibility (gal/ft²/ft)
- Storage coeff.
- Boundary

**Aquifers**

- Rock ID
- Aquifer ID
- Unit tested
- Storage cond.
- Name of Unit

**Logs**

- Top 20 ft
- Top 10 ft
- Top 1 ft
- Top

**Lift**

- Power Type
- Lift type
- Lift type
- Lift type
- Lift type
WILCOX DATA SHEET-VERIFICATION CHECKLIST

COUNTY Coahoma

WELL OWNER Town of Leyon #4 (branch drain text)  
U.S.G.S. NO. K58  
B.O.H. NO. 0140010-01  
OLWR NO. MS-6W 04857

LOCATION:  
Irrev Sect. - loc. based on sec corner of sec or origin  
MAP NW NW, SE, NE 5 18, T27N, R3W  
GPS CO72913A

ELEV. (MSL) 170'  
W.L. (L.S.) (1) 45.00 -11.33 = 33.67 -1.50 = 32.17  
(2) 35.00 -14.2 = 33.58 -1.50 = 32.08  
HEAD (MSL) + 137.83'

SCREENED INTERVAL 1,125' -1,226 (L5) -995' -1,056 (M5)  
AQUIFER VERIFIED MERIDIAN - UPPER WILCOX  
PREVIOUS W.L. - 18' (1978)  
DATA ENTERED

CHECKED  
10/24/94  
11/16/94  
11/18/94

Clarksdale, MS  
U.S.G.S. E-log #31
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Granthan
DATE: 5-7-97

UNIT DEQ #: 
FILE #: 8050718 A

HEALTH DEPT. #: 140010-01
ELEV. 174

USGS #: K-058
OLWR #: MS-6W-04857

OWNER: Town of Lyon

LOCATION: SE NW NE S 18 T. 17 N. R. 00W
COUNTY: Coahoma
LOCATION DESCRIPTION: Adj to El Tonk

CASING DIA: 
PUMP TYPE & SIZE: 

GPS FIELD LOCATION: LAT. 34 12 56.4 LONG. 90 32 33.6

GPS CORRECTED LOCATION: LAT. 34 21 56.45 LONG. 90.542679.11

REMARKS: Clarksdale Quad.


**SECTION A**

**LANDOWNER:**

- **Name:** TOWN OF LYON  
- **Address:** P. O. BOX 511
- **City:** LYON  
- **State & Zip:** MS 38645  
- **Telephone No.:** (601) 627-1600

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

- **Name:**  
- **Address:**  
- **City:**  
- **State & Zip:**  
- **Telephone No.:**

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

- **Township:** 27N  
- **Range:** 03W  
- **County:** COAHOMA

**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**

1. **AQUIFER:** MERIDIAN-UPPER WILCOX  
2. **MISSISSIPPI DEPARTMENT OF HEALTH NO.:** 0140010

2. **Proposed work will begin on:**  
   - **Date:** 9/23/19  
   - **Well Name:** TOWN OF LYON  
   - **Under whose name was well originally drilled (if known)?**

3. **Description of proposed or completed well:**
   - **Depth of Well:** 1231 feet  
   - **Driller:** LAYNE CENTRAL
   - **Surface Casing:** Length 1160 feet; Diameter 10 inches; Type STEEL
   - **Screen:** Length 061 feet; Diameter 6 inches; Type STAINLESS STEEL-Wire
   - **Pump:** Type VERT TURBINE 8 ft; Capacity 300 gallons per minute; Setting depth 90 feet  
   - **Power Unit:** Type ELECTRIC

4. **PERMITTED VOLUME:**
   - **a.**  
   - **b.**
   - **(CONTINUED ON BACK)**
SECTION C (to be completed for SURFACE WATER SOURCE)

1. Source of water is from ____________________________ 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
   ________________ 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)


   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 average daily consumption during periods of maximum use at the end of each five-year period during the next twenty (20) years? 75,000 (Volume) 2003: 75,000 (Year) 2008: 75,000 (Volume) 2013: 75,000 (Year) 2018: 75,000 (Volume)

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.

Mrs. Becky West
(Name)
P. O. Box 511
(Address)
Lyon, MS 38645
(City, State, Zip)
601-627-1600
(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.

Signature

Subscribed and sworn to before me this 19th day of August 1998 at Coahoma County of Mississippi

My commission expires April 16, 1999

Notary Public