**HYDROGEOLOGIC CARD**

**Physiographic Province:**  
**Drainage Basin:** D 137  
**Subbasin:**  

**Topo of well site:** Depression, stream channel, dunes, flat, hilltop, sink, swamp.  
**Boat site:** Offshore, pediment, hillside, terrace, undulating, valley flat.  

**MAJOR AQUIFER:**  
**System:** T  
**Series:**  
**Aquifer, formation, group:**  
**Origin:**  
**Length of well open to:**  
**Depth to top of:**  
**Thickness:**  

**MINOR AQUIFER:**  
**System:**  
**Series:**  
**Aquifer, formation, group:**  
**Origin:**  
**Length of well open to:**  
**Depth to top of:**  
**Thickness:**  

**Interval Screened:** 407 - 447'  
**40' x 6''**  

**Depth to consolidated rock:**  
**Source of data:**  
**Depth to basement:**  
**Source of data:**  

**Saturated material:**  
**Infiltration characteristics:**  

**Coefficient trans:** 80,000 gpd/ft²  
**Coefficient Perm:** 850 gpd/ft²  
**Spec cap:** 24 gpm/ft; Number of geologic cards:  

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**Sam Smith, Eng. Associates**  
**L. Wiley - Maint man.** 773-2347

**WL 134' 1967**  
**WL 140' 1970**

**See E-logs 20-23 also.**
**DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR**

**PUBLIC SUPPLY WELLS PROJECT**

**GPS LOG**

<table>
<thead>
<tr>
<th>USER NAME(S):</th>
<th>Horstbeuk</th>
<th>DATE:</th>
<th>11/6/96</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT DEQ #:</td>
<td>82859</td>
<td>FILE #:</td>
<td>B110623A</td>
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<tr>
<td>HEALTH DEPT. #:</td>
<td>800003-01</td>
<td>ELEV.</td>
<td></td>
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<tr>
<td>USGS #:</td>
<td>K-11</td>
<td>OLWR #:</td>
<td>GW-869</td>
</tr>
<tr>
<td>OWNER:</td>
<td>Flower Ridge W/A</td>
<td>QUAD:</td>
<td>Louisville South</td>
</tr>
<tr>
<td>LOCATION:</td>
<td>NW - NE s 28 t 14 N r 12 E</td>
<td>COUNTY:</td>
<td>Winston</td>
</tr>
<tr>
<td>LOCATION DESCRIPTION:</td>
<td>AT Elev Tank on South side of Flower Ridge Water Tank Rd</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.05 mi. West of Intersection with Hwy 155, 2.55 mi. South of Intersection with South Church St.(Louisville)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CASING DIA:</td>
<td>6&quot;</td>
<td>PUMP TYPE &amp; SIZE:</td>
<td>Submersible</td>
</tr>
<tr>
<td>GPS FIELD LOCATION:</td>
<td>LAT. 33° 03' 01.0&quot;</td>
<td>LONG. 89° 03' 54.7&quot;</td>
<td></td>
</tr>
<tr>
<td>GPS CORRECTED LOCATION</td>
<td>LAT. 33.05051543</td>
<td>LONG. 89.06510754</td>
<td></td>
</tr>
<tr>
<td>REMARKS:</td>
<td>6' GPS 30' North of Well.</td>
<td></td>
<td></td>
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</tbody>
</table>
**LANDOWNER:** Flower Ridge Water Association, Inc.  
(Mr. Sam E. Smith, Engineer 
Louisville, Mississippi)  
(mailing address)  

**WELL LOCATION:** Hiway 15  
sec 28  
T 14  
S  
R 12  
W 5  
miles South of Louisville  
(distance)  
(Louisville)  
(directon)  
(nearest town)  

**WELL PURPOSE:** Domestic  

<table>
<thead>
<tr>
<th>Description of formations encountered</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Sandy Clay</td>
<td>0</td>
<td>10</td>
</tr>
<tr>
<td>Hard Streaks</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>White Clay</td>
<td>12</td>
<td>42</td>
</tr>
<tr>
<td>Black Shale, Stks, Lignite</td>
<td>42</td>
<td>65</td>
</tr>
<tr>
<td>Rock</td>
<td>65</td>
<td>66</td>
</tr>
<tr>
<td>Shale, Streaks of lignite</td>
<td>66</td>
<td>133</td>
</tr>
<tr>
<td>Hard Shale, Stks, Lignite</td>
<td>133</td>
<td>258</td>
</tr>
<tr>
<td>Rock</td>
<td>258</td>
<td>263</td>
</tr>
<tr>
<td>Hard Shale, Stks, Sand</td>
<td>263</td>
<td>407</td>
</tr>
<tr>
<td>Sand</td>
<td>407</td>
<td>459</td>
</tr>
<tr>
<td>Tough Clay</td>
<td>459</td>
<td>465</td>
</tr>
</tbody>
</table>

**WELL COMPLETION DATA:**  
(1) diameter (inches) 10"  
(2) total depth (feet) 463'  
(3) static water level (feet) 134 below top of ground.  
(4) casing Steel 407'  
(material)  
(depth)  
(size)  
(if telescope see back.)  
(5) screen 407'  
(length)  
(depth to top)  
(6) pump 15 Electric  
(yield gpm)  
(type power)  
(7) electric log no  
(yes or no)  
(organization running log)  
(8) how well bottom plugged slugs  

**DRILLERS REMARKS:**  
Pump not set & tested as of this date.
If well telescopes please sketch and show depths.

GROUND LEVEL

SECTION
Please indicate well location X.

ADDITIONAL INFORMATION

If more than one screen, show locations of each on sketch.