New Location ☑
Drill Deeper ☐
Abandonment ☐

Company: UNION CARBIDE OLEFIN
Address: G. KENNETT R. GOSNELL
Farm: H. H. HARDMAN HEIRS
Tract: Acres 471.3 Lease No.
Well (Farm) No. 1 Serial No. 18-36
Elevation (Spirit Level) 840'
Quadangle: CENTERPOINT VC
County: DOORDRIDGE District: McCLELLAND
Engineer: WILLIAM B. BRASE
Engineer’s Registration No. 2019
File No. Drawing No.
Date: FEB. 3, 1962 Scale: 1’’ = 990’

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. DOG-774

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.
**WELL RECORD**

**State of West Virginia**

**Department of Mines**

**Oil and Gas Division**

**Quadrangle** Centerpoint N.E.

**Permit No.** DGD-776

**Company.** Union Carbide Olefins Company

**Address.** P. O. Box 600A, South Charleston, W. Va.

**Farm. H. H. Hardman Farms**

**Acres.** 113.4

**Location (waters).** Broad Run

**Well No.** #1

**Elev.** 300 ft.

**District.** McClendon

**County.** Doddridge

**The surface of tract is owned in fee by G. W. Griger Bros.**

**Address.**

**W. H. Thelis, Agent, H. H. Hardman Farms**

**Middlebourne**

**Address West Virginia**

**Drilling commenced.** May 20, 1962

**Drilling completed.** June 5, 1962

**Date Shot.** From

**To.**

**With.**

- Open Flow: 10ths Water in
  - /10ths Merc. in
- Volume: Cu. Ft.
- Rock Pressure: lbs. hrs.
- Oil: bbls., 1st 24 hrs.

**WELL ACIDIZED.** Injun Sand - 1500 Gal.

**Reg Acid - 40 results**

**WELL FRACTURED.** Gordon Sand - June 13, 1962 - 20,000 Gallons Sand - 17500 Gal. Water

**Injun Sand - July 18, 1962 - 15,000# Sand**

**RESULT AFTER TREATMENT.** No results

**ROCK PRESSURE AFTER TREATMENT.**

- Fresh Water: 10.50
- Salt Water: 1527

**Formation**

<table>
<thead>
<tr>
<th>Sand &amp; Gravel</th>
<th>Color</th>
<th>Top</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Measurements Based on Kelly</td>
<td>10</td>
<td>31</td>
<td>Water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bushing</td>
<td>31</td>
<td>46</td>
<td>Water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hole Pull</td>
<td>10</td>
<td>31</td>
<td>Water</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hole Pull</td>
<td>31</td>
<td>46</td>
<td>Water</td>
<td></td>
</tr>
</tbody>
</table>

**Results:**

- **CASING CEMENTED.**
  - 91/2 Cemented W/25 Sax & 5/8 O.B.
  - 9-5/8 Cemented W/44 Sax; 13-3/8 Cemented W/40 Sax

- **COAL WAS ENCOUNTERED AT:**
  - Feet
  - Inches

- **Results: No results**

**Chris Brown**

**Received**

**AUG 1962**

**West Virginia**

**Dept. of Mines**

(over)
<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top 12</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy Shale</td>
<td>Grey</td>
<td></td>
<td>2:55</td>
<td>2:30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shaley Sand</td>
<td>Grey</td>
<td></td>
<td>2:50</td>
<td>2:33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>Grey</td>
<td></td>
<td>2:33</td>
<td>2:49</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td>Black</td>
<td></td>
<td>2:49</td>
<td>2:48</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand - Corday</td>
<td>Brown</td>
<td></td>
<td>2:51</td>
<td>2:51</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand &amp; Shale</td>
<td>Blue</td>
<td></td>
<td>2:51</td>
<td>2:73</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand</td>
<td>Grey</td>
<td></td>
<td>2:73</td>
<td>2:83</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shale</td>
<td>Blue</td>
<td></td>
<td>2:83</td>
<td>3:028</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Date: August 10, 1962

APPROVED: Union Carbide Cliffsing Company

By: [Signature]  [Title]  [Position]