ARMSTRONG BRANCH FIELD
LAMAR COUNTY, ALABAMA

LOCATION:
The Armstrong Branch Field is located in Township 13 South, Range 14 West, Lamar County, Alabama, in the Black Warrior Basin in Northwest Alabama. It is south of the town of Beavertown.

DISCOVERY DATA:
COMPANY: Hughes & Hughes - Warrior Drig. & Eng. Co., Inc.
WELL: #1 Sizemore 21-4
COMPLETION DATE: October 12, 1979
FORMATION: Carter Sand
PERFORATIONS: 2,177'-2,182' (Carter Sand)
2,185'-2,198' (Carter Sand)
POTENTIAL - 646 MCFGPD; 16/64” Choke; TP 190#

OLDEST STRATIGRAPHIC HORIZON PENETRATED:
WELL: Hughes & Hughes - Warrior #1 Sizemore 21-4
STRATIGRAPHIC UNIT: Tuscumbia Lime
TOTAL DEPTH: 2,893’

NATURE OF TRAP:
Stratigraphic

LITHOLOGY OF RESERVOIR ROCK:
The Carter Sandstone is a light gray, fine to medium-grained, well sorted sandstone with some shale laminations.

DISPOSITION OF GAS/OIL:
Northwest Alabama Gas District & Tennessee Gas Pipeline

PRINCIPAL FIELD OPERATOR:
Hughes & Hughes

RESERVOIR DATA:
RESERVOIR: Carter Sand
AVERAGE DEPTH: 2,468’
SPACING: 320 Ac.
AVERAGE PAY THICKNESS: 25
APPROXIMATE PRODUCING ACREAGE: 1,300 Ac.
AVERAGE POROSITY: 14%
AVERAGE PERMEABILITY: 16 md
AVERAGE WATER SATURATION: 19%
OIL OR GASWATER CONTACT: Gas/Oil Contact (-1,734’)
FORMATION VOLUME FACTOR: 1.3 FVF
BOTTOM HOLE TEMPERATURE: 100°F
BOTTOM HOLE PRESSURE: 822 PSIA
GRAVITY OIL/CONDENSATE: 33.9° API
ORIGINAL OIL IN PLACE: None - Gas Reservoir (Dry)
PRIMARY RECOVERY: 80%
ESTIMATED ULTIMATE RECOVERY: 80%
PRODUCTION MECHANISM: Pressure Depletion

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>YEAR</th>
<th>NUMBER OF PRODUCING WELLS</th>
<th>OIL (BBLS)</th>
<th>GAS (MCF)</th>
<th>CUMULATIVE OIL (BBLS)</th>
<th>CUMULATIVE GAS (MCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1982</td>
<td>3</td>
<td>72</td>
<td>249,893</td>
<td>72</td>
<td>249,893</td>
</tr>
<tr>
<td>1983</td>
<td>6</td>
<td>816</td>
<td>383,241</td>
<td>888</td>
<td>633,134</td>
</tr>
<tr>
<td>1984</td>
<td>6</td>
<td>3,094</td>
<td>638,509</td>
<td>3,982</td>
<td>1,271,643</td>
</tr>
<tr>
<td>1985</td>
<td>6</td>
<td>7,599</td>
<td>610,863</td>
<td>11,581</td>
<td>1,882,506</td>
</tr>
</tbody>
</table>

Mesozoic-Paleozoic Producing Areas of Mississippi and Alabama, Volume III - December, 1986
Copyright © 2015 Mississippi Geological Society