Reams Southeast Field Study
Booch Gross Sand Isopach

Reams SE Field Study Area
Regional Stratigraphic Cross-Section A-A’
Reams Southeast Field Study
Area Production
Joe D. Davis Trust
Adams #1
NE NE Sec. 32-7N-15E
KBE: 704'

Density logs

TOP BOOCH
McAlester coal

PS-0
Channel fill

TOP PS-1

Clean sand line
(Gross sand) 50% oil
Shale baseline

Air Permeability

Reams Southeast Field Study
Example Well Log
Winjuan Industries
Public Service Company #3
SE NE Sec. 6-6N-16E
KBE: 612'

Density logs

TOP BOOCH (UPPER)

TOP MIDDLE BOOCH

PS-0

Channel fill

McAlester coal

PS-1

Marine shale

PS-2 coal
Delta plain
Delta front

PS-2

Prodelta (marine) shale

PS-3/3A

Distributary channel/mouth bar (?)
Delta front
Prodelta (marine) shale

PS-4

Reams Southeast Field Study
Type Log
Regional Booch Gross Interval Isopach
Showing Reams Southeast Study Area
Reams Southeast Field Study
Upper Booch Interval Isopach
Reams Southeast Field Study
Stratigraphic Cross-Section A-A’
Reams Southeast Field Study
Stratigraphic Cross-Section B-B'
Reams Southeast Field Study
PS-3/3A Net Sand Isopach
Reams Southeast Field Study
Stratigraphic Cross-Section B-B’
Reams Southeast Field Study
PS-2 Net Sand Isopach
Reams Southeast Field Study
Stratigraphic Cross-Section A-A’
Reams Southeast Field Study
Stratigraphic Cross-Section B-B’
Reams Southeast Field Study
PS-0 Net Sand Isopach
Reams Southeast Field Study
Stratigraphic Cross-Section A-A’
Reams Southeast Field Study
Stratigraphic Cross-Section B-B’
The Booch Gas Play

Reams Southeast Field Study
Channel Orientation
# Reams Southeast Field Production

## Table 4. Reams Southeast Field (Study Area) Booch Production

<table>
<thead>
<tr>
<th>Operator name</th>
<th>Lease name</th>
<th>Well no.</th>
<th>Location</th>
<th>Gas cum. prod. (MMCF)</th>
<th>Booch cum. prod. (MMCF)</th>
<th>EUR * (MMCF)</th>
<th>Production (MCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PS-0</td>
<td>PS-2</td>
<td>PS-3</td>
</tr>
<tr>
<td>XAE Corp.</td>
<td>USA 1</td>
<td>sec. 1, 76N, 1R5E SE NE NE</td>
<td>ACT 138</td>
<td>138</td>
<td>200</td>
<td>200</td>
<td>3</td>
</tr>
<tr>
<td>Spartan Resources</td>
<td>Lake Eufaula 1</td>
<td>sec. 1, 16N, 1R5E SW SE</td>
<td>ACT 89</td>
<td>89</td>
<td>150</td>
<td>150</td>
<td>0</td>
</tr>
<tr>
<td>Quench Oil &amp; Gas Inc.</td>
<td>Silva 2A</td>
<td>sec. 11, 75N, 1R5E NE SW</td>
<td>ACT 74</td>
<td>74</td>
<td>75</td>
<td>75</td>
<td>0</td>
</tr>
<tr>
<td>XFLOR Corp.</td>
<td>Coe 1</td>
<td>sec. 16, 75N, 1R5E NE NE</td>
<td>INA 0</td>
<td>0</td>
<td>75</td>
<td>75</td>
<td>0</td>
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<tr>
<td>Meade Energy Corp.</td>
<td>Lake 1</td>
<td>sec. 6, 76N, 1R6E NW NW</td>
<td>ACT 1,079</td>
<td>540</td>
<td>540</td>
<td>1,150</td>
<td>575</td>
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<tr>
<td>Meade Energy Corp.</td>
<td>Lake 3</td>
<td>sec. 5, 76N, 1R6E NW NW</td>
<td>ACT 57</td>
<td>29</td>
<td>29</td>
<td>150</td>
<td>75</td>
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<tr>
<td>Meade Energy Corp.</td>
<td>Helms 1-6</td>
<td>sec. 6, 75N, 1R6E N S N NW</td>
<td>ACT 1,378</td>
<td>345</td>
<td>345</td>
<td>800</td>
<td>400</td>
</tr>
<tr>
<td>Meade Energy Corp.</td>
<td>Helms 1-6</td>
<td>sec. 6, 76N, 1R6E C NW SE</td>
<td>INA 1,329</td>
<td>333</td>
<td>333</td>
<td>665</td>
<td>333</td>
</tr>
<tr>
<td>Eberly &amp; Meade Inc.</td>
<td>Loman 1</td>
<td>sec. 6, 76N, 1R6E C NW SE</td>
<td>INA 72</td>
<td>72</td>
<td>72</td>
<td>72</td>
<td>72</td>
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<tr>
<td>Quench Oil &amp; Gas Inc.</td>
<td>P S C 4</td>
<td>sec. 6, 76N, 1R6E SW NE NE</td>
<td>ACT 328</td>
<td>328</td>
<td>475</td>
<td>475</td>
<td>0</td>
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<tr>
<td>Eberly &amp; Meade Inc.</td>
<td>Lake 1</td>
<td>sec. 32, 17N, 1R6E SE SW SW</td>
<td>INA 1,060</td>
<td>353</td>
<td>353</td>
<td>353</td>
<td>1,060</td>
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<tr>
<td><strong>Totals</strong></td>
<td></td>
<td></td>
<td></td>
<td>5,604</td>
<td>2,062</td>
<td>1,810</td>
<td>4,872</td>
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</tbody>
</table>

**Booch cum. total:** 4,254
**Booch EUR total:** 4,872

**NOTE:** Data from IHS Energy (through February 2004).

1. Estimated ultimate recovery (EUR) calculated using latest month’s production 12 - 5 years.
2. Parasequence completed.
3. H - Hartshorne. Hartshorne commingled assigns 50% to Booch zone.
Reams Southeast Field Study Volumetric Input

<table>
<thead>
<tr>
<th>Interval</th>
<th>Avg. Net Sd</th>
<th>Area (ac)</th>
<th>Avg. Por</th>
<th>Avg. Sg</th>
<th>Pore Vol (Ac. Ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-0:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area I</td>
<td>34 ft</td>
<td>1207</td>
<td>12%</td>
<td>80%</td>
<td>3940</td>
</tr>
<tr>
<td>Area II</td>
<td>11 ft</td>
<td>839</td>
<td>10%</td>
<td>70%</td>
<td>646</td>
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<tr>
<td>PS-2:</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>40 ft</td>
<td>260</td>
<td>12%</td>
<td>80%</td>
<td>998</td>
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<tr>
<td>PS-3:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>24 ft</td>
<td>1326</td>
<td>12%</td>
<td>80%</td>
<td>3055</td>
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</table>
# Reams Southeast Field Study Gas Volumes

<table>
<thead>
<tr>
<th>Interval</th>
<th>Gas MIP</th>
<th>Cum Prod</th>
<th>E.U.R.</th>
<th>Proj. R.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PS-0:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area I</td>
<td>3.776</td>
<td>1.988</td>
<td>2.286</td>
<td>61%</td>
</tr>
<tr>
<td>Area II</td>
<td>0.619</td>
<td>0.074</td>
<td>0.150</td>
<td>24%</td>
</tr>
<tr>
<td><strong>PS-2:</strong></td>
<td>0.957</td>
<td>0.382</td>
<td>0.428</td>
<td>45%</td>
</tr>
<tr>
<td><strong>PS-3:</strong></td>
<td>2.928</td>
<td>1.810</td>
<td>2.008</td>
<td>69%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>8.280</td>
<td>4.254</td>
<td>4.872</td>
<td>Avg: 59%</td>
</tr>
</tbody>
</table>
Reams Southeast Field Study
Lessons Learned

• Stratigraphic Analysis
• Reservoir
• Play Viability