A Strategic Crude Oil Hub
Linking energy producers with America's refineries

COQA New Orleans, LA
February 27, 2014
Agenda

- Acronyms
- System Overview
- Then and Now
- Waterborne Eagle Ford Crude
- Cavern Assignments
- Salt Cavern Operations
- Tank Facility
Acronyms

- LOOP: Louisiana Offshore Oil Port
- LOCAP: LOOP to CAPLINE
- CAM: Clovelly, Alliance Meraux
- MT: Marine Terminal
- SPM: Single Point Mooring
- CDST: Clovelly Dome Storage Terminal
A Strategic Crude Oil Hub
Then and Now

• ULCC’s Largest in the world
• 1981 First Tanker
• 1996 Mars
• 2002 Above Ground Tanks
• Changes to Accept MR Tankers
  – Reduce Hose String Length
  – Change Rail Tail Size
  – Allow 1 Hawser Connection
• Dual Discharge
Single Point Mooring Buoy
• API Gravity 40.8° API to 46.7° API
  — API Gravity Average = 45.1° API
• Nickel 0.1 ppm to 3.2 ppm
  — Nickel Average = 1.0
• Vanadium 0.1 ppm to 11.0 ppm
  – Vanadium Average = 3.2
• Sulfur 0.11 Wt% to 0.48 Wt %
  o D-4249
  o Average = 0.25%
## Cavern Assignments

<table>
<thead>
<tr>
<th>Cavern</th>
<th>Capacity</th>
<th>Seg No.</th>
<th>Crude Types</th>
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<tbody>
<tr>
<td>03</td>
<td>7312 Mbbls</td>
<td>17</td>
<td>ABM, BAS, KUW</td>
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<tr>
<td>04</td>
<td>17</td>
<td></td>
<td>MRB, Mars Blend</td>
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<tr>
<td>07</td>
<td>14</td>
<td></td>
<td>MRB Mars Blend</td>
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<td>08</td>
<td>7621 Mbbls</td>
<td>20</td>
<td>Waterborne EAG, BNL, FOR, QUA</td>
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<tr>
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<td>7860 Mbbls</td>
<td>05</td>
<td>ABL</td>
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<td>7946 Mbbls</td>
<td>34</td>
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<tr>
<td>12</td>
<td>4315 Mbbls</td>
<td>11</td>
<td>MAY, WCS, CAS</td>
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<tr>
<td>15</td>
<td>26</td>
<td></td>
<td>THB, Thunder Horse Blend</td>
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</tbody>
</table>

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Salt Cavern Operations
Clovelly Tank Facility

- 15 – 600,000 bbl Tanks
- 50 ft high 310 ft dia
- Switch from Caverns to Tanks and back are performed on the fly.
- 2 injection lines in and 2 delivery line out.
QUESTIONS?