Buried Crude Oil Pipeline – Energy Retention and CUI Prevention
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EXISTING PROBLEMS:
1. Previous system the application was artisanal
2. Long and difficult installation
3. The insulation system lost its physical-chemical properties over time and degraded rapidly in immersion.
4. In the rainy season, the pipeline floated due to conventional thermal insulation.
5. In a short time there was corrosion under insulation (CUI), causing loss of the metallic element that weakened the pipeline walls.

PROJECT DETAILS:

<table>
<thead>
<tr>
<th>Outside Diameter Tube: 4 Inches</th>
<th>Crude Input Temperature: 94.4°C</th>
<th>Temperature Gradient: 13.3°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length: 800 Meters</td>
<td>Crude Exit Temperature: 81.1°C</td>
<td>Dry Film Thickness Mascoat DTI: 4 MM</td>
</tr>
</tbody>
</table>

BENEFITS:
1. Easy to Apply
2. Flexible, it does not break when moving the pipeline.
3. Reduction of convection transfer to the ground, by reducing the outer perimeter area.
4. Completely waterproof system.
5. Light system for your transportation.
6. Non-hygroscopic system.
7. Maintenance reduction or zero.

SYSTEM:

<table>
<thead>
<tr>
<th>Surface Preparation</th>
<th>Primer</th>
<th>Intermediate</th>
<th>Topcoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSPC SP 10</td>
<td>Inorganic Zing</td>
<td>Mascoat Industrial-DTI</td>
<td>Polyurethane</td>
</tr>
<tr>
<td>1.5-2 Mils</td>
<td>3 mils</td>
<td>4 mm</td>
<td>3 mils</td>
</tr>
</tbody>
</table>