QBREAK O

Description
QBREAK O is designed for use and is soluble in most brine types, including monovalent and divalent brines. The product has in-situ acidizing capability and can be used in combination with additional acids.

Applications
Drill-In fluids are designed to deposit a high quality, relatively impermeable filter cake on the wellbore face. This filter cake acts as a barrier to production.

QBREAK O removes the filter cake created by a Non-aqueous drilling fluid enhancing the productivity of the well. It also removes base oil, oil based drilling muds and filter cake from contaminated tubulars, pipes, mud pits, formations and equipment. QBREAK O can be used for the remediation of emulsion blockage and near wellbore/skin damage.

QBREAK O is CEFAS Gold Rated for use in offshore wellbore cleanup and casing cleaning operations.

Features and Benefits
- Reduces pumping time by up to 75%.
- Increase production by up to 650%
- One pill approach that works under all environment conditions.
- Does not form oil/water emulsion wastes which minimizes waste production.
- Temperature stable

Typical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Liquid</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear orange / yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Sweet</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0 – 1.15 @ 20°C</td>
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<tr>
<td>pH</td>
<td>4.0 – 8.0</td>
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<tr>
<td>Flash Point</td>
<td>&gt; 61°C</td>
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</tbody>
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Recommended Treatment
1. Make up wash pill at surface (dose rate 10 – 30% by weight)
2. Pump pill into completion zone
3. Allow to soak
4. Displace to surface
5. Bring well into production

Safety and Handling
Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging
QBREAK O is available in 55 lb (25 kg) containers, 440 lb (200 Kg) drums, 1 MT IBCs or 18 MT container.