**ACTive Matrix Service Achieves 100% Solubility of Hydrocarbon Deposits**

Increased oil production enabled by complete wellbore cleanup and scale removal

---

**Background**

Petroleit needed to dissolve the accumulated hydrocarbon deposits and clean up the wellbores in three wells located in the Ras El Ush field. The treatment included a perforation wash and matrix stimulation treatment, which used a mixture of solvents and acid that worked well with the perforation wash. By monitoring temperature, downhole parameters, and nodal analysis and skin evaluation measurements in real time, ongoing analysis could be conducted to ensure efficient placement of the treatment.

**Technology**

- ACTive Matrix* live CT stimulation and conformance service

---

**EGYPT**

**RAS EL USH FIELD**

<table>
<thead>
<tr>
<th>Lithology</th>
<th>Sandstone</th>
</tr>
</thead>
</table>
| Well depth  | 4,000–5,000 ft-MD  
             | 1,219–1,524 m-MD |
| Temperature | 175 degF [79 degC] |
| Pressure    | 1,500 psi [10.3 MPa] |

---

The ACTive Matrix service improved oil production for each of the three stimulated test wells, and the operator achieved 100% solubility of hydrocarbon deposits and complete scale removal.

---

**TECH REPORT**

**ACTive Matrix Service Achieves 100% Solubility of Hydrocarbon Deposits**

![Graph showing increased oil production](chart.png)

**Graph:**

- **Well 1:** Before ACTive Matrix service: 40 bbl/d, After ACTive Matrix service: 120 bbl/d
- **Well 2:** Before ACTive Matrix service: 30 bbl/d, After ACTive Matrix service: 70 bbl/d
- **Well 3:** Before ACTive Matrix service: 10 bbl/d, After ACTive Matrix service: 25 bbl/d