BaraMesh™ Shaker Screens Outlast Competitor Screens, Save Operator $802 per Well

Location: Woodford Field, Oklahoma

Operator’s Challenge
The operator wanted to optimize the performance of the primary solids control equipment and challenged Baroid to extend shaker screen life without losing solids control efficiency. The area market had been dominated by another vendor, making it difficult for the customer to get accurate cost and screen life comparisons.

Halliburton’s Solution
The Baroid team recommended installing BaraMesh™ API 140 high-performance shale shaker screens in a side-by-side comparison against Derrick PMDV40X25DX-A140 screens. The trial was conducted while drilling the 12¼-in. interval. The rate of penetration averaged 102 fph, and the flow rate averaged 750 gpm.

The screens were inspected at 24-hr intervals. After approximately 72 hr, two competitor screens were changed because of screen cloth failure. The BaraMesh screens outperformed the Derrick screens by providing greater flow processing capacity while significantly increasing useful screen life.

The customer stated that he was pleased with the BaraMesh screen performance, and Baroid was awarded the screen job. In fact, the BaraMesh screens remained in good condition and were suitable for continued use on next well.

Economic Value Created
Longer screen life helped the operator to achieve solids control optimization goals while saving money on screen replacement and reducing time rig hands spend changing screens. The extended screen life saves an estimated 2 to 4 hr per week in labor. In terms of replacement costs, a total of $802 was saved per well by running the BaraMesh high-performance screens. This operator drills three wells per month on average, so the projected monthly savings is over $2400.

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<th>CHALLENGE</th>
<th>SOLUTION</th>
<th>RESULT</th>
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<tr>
<td>Optimize shaker performance with</td>
<td>Conduct side-by-side comparison between BaraMesh™ high-</td>
<td>Competitor screens failed within 72hrs, BaraMesh™ screens maintained integrity for the duration of the entire well.</td>
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<td>better screens.</td>
<td>performance screens and competitor screens.</td>
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