

CASE STUDY

FIXEDBLADE® Stabilizer enhances drilling performance for operator in The Gulf Region

A two well trial case, delivering more than 30% overall ROP improvement comparing two lateral sections drilled with conventional blade stabilizers and the FIXEDBLADE® stabilizer tool

CHALLENGE

Enhance drilling performance by improving energy transfer to the bit, reducing BHA hang up and motor stalling.

SOLUTION

Deploy the FIXEDBLADE® stabilizer in directional drilling BHA's and benchmark it against the conventional spiral blade stabilizer.

RESULTS

- >30% overall ROP improvement
- Saved over 40 hrs of drilling time
- Better energy transfer
- Reduced vibration levels
- No balling up of stabilizer
- Lower torque levels



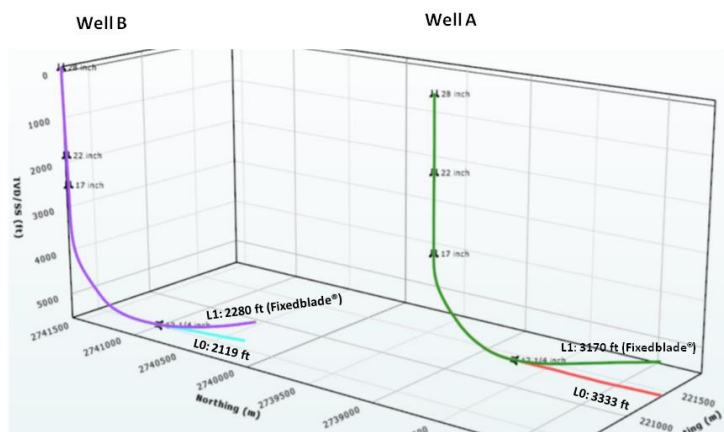
FIXEDBLADE® deployment

The FIXEDBLADE® stabilizer was deployed in two wells for an operator in the Gulf region for trial and technology acceptance purpose. An 8" OD FIXEDBLADE® stabilizer was installed directly above the motor as part of a steerable motor assembly. An in-depth performance comparison report was made between conventional spiral blade stabilizers and the FIXEDBLADE® stabilizer by an independent 3rd party.

WELLS A and B

Both wells consisted of a mother bore with two 8 ½" lateral horizontal sections, one lateral drilled with a conventional blade stabilizer and the other lateral with the FIXEDBLADE® stabilizer.

The opportunity to deploy stabilizers of each type in a similar drilling environment was vital as it would produce the most objective comparison. It should be noted, that whilst the L0 and L1 laterals were approximately the same length, the L1 laterals drilled with the FIXEDBLADE® had more challenging trajectories with greater azimuthal changes (34° for Well A and 54° for Well B).



FAMILY OF INNOVATIVE STABILIZERS - FEATURES & BENEFITS

- Improved stabilization
- Reduced vibration
- Reduced torque and drag
- Improved weight transfer
- Increased flow-by area
- Reduced ECD and surge/swab



SWITCHBLADE® stabilizer with interchangeable blades, the gauge size can be adjusted at surface to suit a range of drilling applications.



FIXEDBLADE® stabilizer, designed for applications where the gauge size requirements are known.



Near bit stabilizer, designed to enhance stabilization at the bit and minimize whirl.



Bit box stabilizer, designed to run in conjunction with the steerable mud motor.