

CASE STUDY

# FIXEDBLADE Stabilizers help extend bit life and set a new benchmark in the 12 ¼” hole section in the Sultanate of Oman

Fixedblade Stabilizers help cut down number of bit runs by setting new field record bit run in 12-1/4” hole section.

**CHALLENGE**

- Minimize high levels of shocks and vibrations
- Propose a fit for purpose BHA

**EDP SOLUTION**

- Replace conventional stabilizer with FIXEDBLADE stabilizers
- BHA.

**RESULTS**

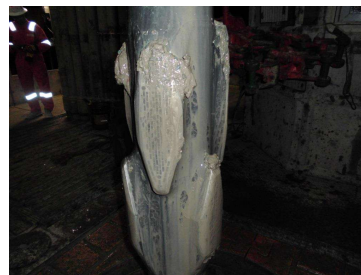
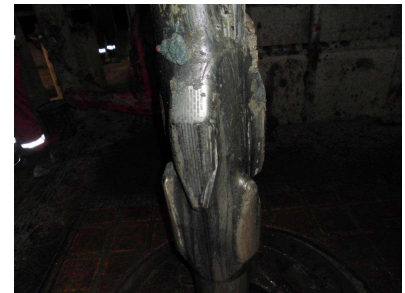
- Record bit run (320 hrs)
- One bit run saved.
- 372 hrs on BHA
- No reference to high vibrations in DDRs
- Smooth Casing run;
- Bit dull grading: 2-4-BT-A-X-I-CR-HR

**FIXEDBLADE deployment**

A major operator in the Sultanate of Oman was facing serious challenges drilling the vertical 12 ¼” hole section with either a rotary BHA or with a PDM as a drive system.

RSS were also occasionally used with marginal improvements.

Multiple bit runs were typically required to complete the sections primarily due to harsh drilling conditions and severe levels of vibration encountered throughout the section.



Previously used conventional spiral design string stabilizers were replaced by FIXEDBLADE design stabilizers. In addition, the OD and the placement of the stabilizers were optimized for that particular BHA and application.



The adopted solution helped extend bit and BHA life and resulted in the record bit run for this hole section of + 13 days. Interval drilled was 3017m and the section was completed in 2 bit runs resulting in a total time saving of 20 hours.



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**FAMILY OF INNOVATIVE STABILIZERS - FEATURES & BENEFITS**

- Versatile set-up and functionality
- Improved stabilization
- Minimize pack-off and back-reaming
- Reduced vibration
- Reduced torque and drag
- Improved weight transfer
- Enhanced transportation of fluid and cutting along the tool
- Better ECD management and surge/swab



**SWITCHBLADE®**  
Hybrid/Reamer/Stabilizer  
interchangeable blades,  
the gauge size can be  
adjusted at surface to  
suit a range of drilling  
applications.

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

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

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

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