

Free-Rotating Eccentric Guide Shoe Reaches TD in High-Angle Well, Saves 24 Hours of Rig Time

Objectives

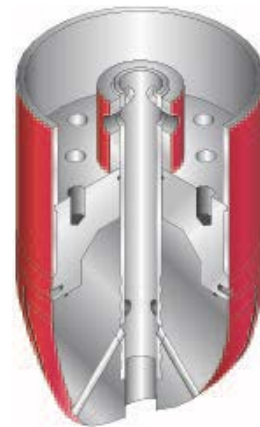
- Run 7-in. liner inside of 9 5/8-in. casing to a 14,437-ft (4,400-m) total depth (TD) in a well with a maximum inclination of 80° and a high dogleg severity of 15°/100 ft (30 m).

Our Approach

- The operator selected the Weatherford free-rotating eccentric guide shoe (FREGS) equipped with two Sure Seal 3® valves to run the liner in the highly deviated well.
- Weatherford ran 6,203 ft (1,891 m) of 7-in. liner through the previous 9 5/8-in. casing into the 8 1/2-in. open hole.
- The 7-in. FREGS facilitated problem-free liner running without rotating the entire string in the highly deviated hole sections. The nose provided the capability of rotating freely when pushing against ledges and obstructions in the wellbore to enable running the liner to TD.
- The SureSeal 3 valves each provided a 3-in.² (1,935-mm²) minimum flow area to allow large cuttings and debris to pass through, which eliminated a wiper trip. Rated to 5,000 psi and 400°F (34.5 MPa and 204°C), the valves resisted wear associated with high-temperature and high-pressure drilling fluids.
- Weatherford rotated the liner with a maximum torque of 22,000 ft-lb (29,828 N-m) and reached TD on the first attempt.

Value to Client

- Using the FREGS and double-valve configuration enabled the operator to avoid sticking and to safely run the liner to TD in one of the longest liner installations in the United Arab Emirates.
- The guide shoe valve configuration eliminated the risk of pulling out of the hole and performing a wiper trip, which saved approximately 24 hours of rig time.



With a unique nose design, the free-rotating eccentric guide shoe changes orientation as casing or liners are run into the wellbore.

CLIENT

Abu Dhabi Marine Operating Company (ADMA-OPCO)

LOCATION

United Arab Emirates

WELL TYPE

Offshore, dual oil producer

HOLE SIZE AND ANGLE

8-1/2 in., 80° maximum

CASING TYPE AND SIZE

9-5/8 in., 47-lb/ft L-80

SETTING DEPTH

14,437 ft (4,400 m)

RUN LENGTH

6,203 ft (1,891 m)

PRODUCTS/SERVICES

- Cementing products
- Free-rotating eccentric guide shoe
- Sure Seal 3 valves

