DRILLING SERVICES **REAL RESULTS**

Magnus® Rotary Steerable System

Quadruples ROP and Achieves TD in Challenging Well

Objectives

• Finish drilling a well in a challenging basin. The operator had been unable to finish drilling the lateral in a well using a conventional motor assembly.

Our Approach

- The Weatherford team recommended the Magnus rotary steerable system (RSS) for its high-performance drilling and precise directional control capabilities.
- Without the need for a reamer run and with minimal reaming, the team tripped the 8.5-in. Magnus RSS bottomhole assembly (BHA) to bottom through a motor-drilled hole.
- The Magnus RSS BHA achieved a rate of penetration (ROP) four times that of the motor BHA and drilled a total of 3,069 ft (935.4 m).
- The RSS reached total depth (TD) in the lateral section without requiring any agitators, expensive antistick-slip tools, or torque-reduction tools in the BHA.
- After reaching TD, the team tripped the Magnus BHA out of the hole with minimal backreaming or overpull.

Value to Customer

The Weatherford Magnus RSS enabled the operator to quadruple the ROP compared to a conventional motor assembly and finish drilling the lateral section in a 4.5-mile (7.2-km) well to TD.

LOCATION

Permian Basin, U.S.

WELL TYPE

Onshore, oil

AVERAGE ROP

64.4 ft/hr (19.6 m/hr)

MUD WEIGHT

13.1 lb/gal (1,570 kg/m³)

TOTAL CIRCULATING HOURS

85.3 hr

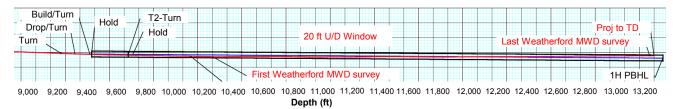
TOTAL DRILLING HOURS 47.7 hr

TOTAL FOOTAGE DRILLED 3,069 ft (935.4 m)

VERTICAL SECTION 13,301 ft (4,054.1 m)

PRODUCTS/SERVICES

- **Drilling services**
- Magnus RSS



The Magnus RSS picked up where a conventional motor assembly left off and finished drilling the lateral section to the operator's desired depth.

