

Voyager® Sets ROP and Footage Benchmark in Cana Field Curve Run

Woodford Horizontal Wells

8-3/4" V613PP2DGUX, Blaine Co. Oklahoma

CHALLENGE: The curve section in this field has historically been tough to drill with PDC bits due to a lack of durability and ability to build angle. The goal for this run was to be able to achieve adequate build rates while also being able to drill above average footage and ROP.

SOLUTION: Varel designers used proprietary SPOT-DN™ software to design a durable yet aggressive cutting structure with PowerCutters™ to maximize shoulder life. This cutting structure arrangement produces above average ROP while also remaining directionally friendly. Bits can achieve maximum ROP without concern for damage to the cutting structure as a bit transitions through formations.

RESULTS: This Voyager bit drilled a total of 513 ft (156 m) while setting an ROP and Footage field benchmark. The 8 3/4" V613PP2DGUX bit achieved a 12% ROP improvement and an 18% footage benchmark for bit runs that kicked off the curve. The Voyager bit drilled to 65° in the curve while the offsets only managed 46° in the curve. The dull grade was 1,2,WT,A,X,IN,BT,PR.



8-3/4" V613PP2DGUX & Offset Data

