Lucida advanced rotary steerable service maximizes ROP and minimizes doglegs in stringer-laden formation

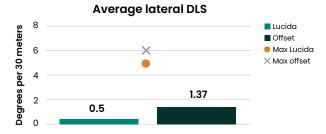
CHALLENGES

- Shale formation interbedded with limestone stringers raises risk of damage to conventional rotary steerable systems
- Elevated lateral and tangential vibrations when transitioning between rock types requires directional changes via downlinking
- Lateral dogleg severity (DLS) increases tortuosity and creates challenges for casing, completion, and production operations

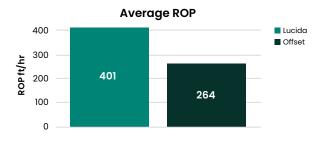
SOLUTION

Deployed 6 3/4-in. <u>Lucida™ advanced</u>
<u>rotary steerable service</u> to improve drilling
performance and rate of penetration
(ROP) with features including:

- Advanced sensors and hydraulic units that provide greater reliability and accurate measurements
- Full inclination and automated azimuthal hold steering modes for reduced DLS
- Faster and less frequent downlinking for increased ROP, even through interbedded stringers



Compared to a similar offset section drilled with a conventional RSS, the Lucida advanced RSS significantly reduced the maximum and average DLS.



The Lucida advanced RSS drilled the lateral with a **52% higher** average ROP than a conventional RSS achieved in the offset well.

RESULTS

64% reduction

in average lateral dogleg severity

401 ft/hr

average ROP versus 264 ft/hr in lateral offset

100% reliability

in electronics and hydraulic units over 20+ runs





