

Lucida advanced rotary steerable service sets single-run record in Permian Basin, drilling more than 3 miles in 3 days

CHALLENGES

- Drill curve and long lateral in one run
- Improve rate of penetration (ROP) on both curve and lateral to reduce drilling days
- Deliver excellent wellbore quality for subsequent completion operations
- Avoid the downtime and costs of swapping out drilling tools to finish the curve

SOLUTION

Bottomhole assembly (BHA) comprising:

- [Lucida™ advanced rotary steerable service](#), which combines automated trajectory control and continuous proportional steering
- [DuraMax™ motor](#), which optimizes power delivery to the bit for maximum speed and efficiency to target depth (TD)
- [Dynamus™ extended-life drill bit](#), which maximizes ROP while smoothing out lateral vibrations to reduce trips
- High frequency torsional oscillation (HFTO) dampener, which reduces high-frequency torsional vibration to minimize BHA tool failures

RESULTS

3 miles

drilled in 3 days, saving more than a day in planned drilling time while delivering high quality wellbore

16,666 ft

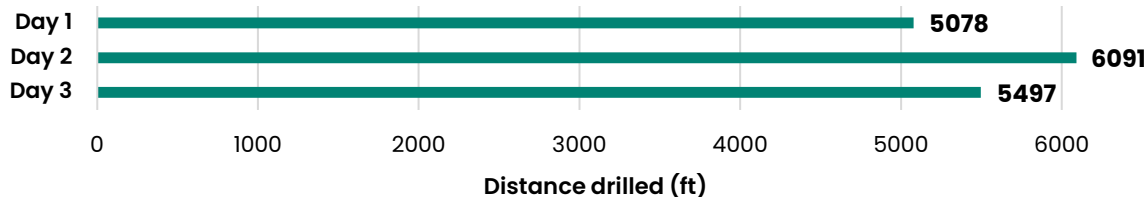
drilled in a single run, a new world record

313 ft/hr

average rate of penetration

0.45 deg/100 ft

average dogleg severity in the lateral



The integrated drilling assembly achieved multiple days of mile-a-day drilling to deliver the well to TD ahead of schedule.