

Innovative well construction solution achieves new drilling record, substantially reducing rig time and CO₂ emissions

CHALLENGES

- Drill long lateral with a 270° turn from whipstock exit in a single run
- Reduce high-frequency torsional oscillations to extend bottomhole assembly (BHA)
- Eliminate anticipated whirl in long tangent sections through excellent directional control
- Quickly identify calcite stringers and adjust operational parameters to improve rate of penetration (ROP)
- Reduce time to target depth
- Deliver high-quality wellbore for subsequent completion operations

SOLUTION

Deployed remote operations service to enhance drilling performance and wellbore quality with solutions that included:

- 6¾-in. [Lucida™ advanced rotary steerable service](#) with automated wellpath trajectory control and continuous proportional steering
- Five-blade [Dynamus™ extended-life drill bit](#), which optimizes ROP in long laterals containing stringers while reducing trips and BHA vibrations
- Fit-for-purpose [PerfFLOW™ DIF system](#) to reduce friction while drilling
- [i-Trak™ automated stringer detection and mitigation service](#), which quickly adjusts drilling parameters to improve drilling efficiency through stringers

RESULTS

6,624 m

drilled in 8½-in. lateral section in a single run, the world's longest bit run to date

43.1 m/hr

average optimized ROP achieved while enhancing performance and wellbore quality

67% reduction

in personnel required on the rig

697,261 kg CO₂ eq*

saved due to performance gains and POB reduction