

Baker Hughes delivers one-run curve and lateral production section

CHALLENGES

Permian Basin – Oil/Gas Shale/Upton, TX

- Client challenged Baker Hughes to drill the production hole with a curve set at 10°/100' and a 15,200 feet lateral in one run
- Target formation is primarily shale with randomized occurrence of carbonate facies
- Deflections due to carbonate interfaces make directional control challenging
- Optimize drilling parameters to maximize drilling performance

SOLUTION

Bottomhole assembly (BHA) comprising:

- AutoTrak™ Curve Pro RSS, 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

RESULTS

16,101 feet
Drilled in one single run

4.52 days
Total overall days

3,562 ft/day
Average overall footage/day

Wolfcamp A2
Target formation