

West Texas

Summit ESP[®] Recommends Lowering Electric Submersible Pump (ESP) System into Tangent, Revenue Increases +\$26,000/day

Solution mitigates pump off

CHALLENGE

Operators set ESP systems in the vertical section of highly deviated wellbores to avoid the risk of running through the curve, but production may not be optimized, and ESP pumps must be downsized when wells pump off.

SOLUTION

The Intelevate™ team worked with the local Application Engineer to evaluate and optimize the well, recommending a new landing zone in the tangent.

RESULT

- Cost of workover rig avoided and no issues setting ESP at lower point within the tangent
- Lower set point mitigates the risk of pump off and increased production 330 BOPD, 475 MCFPD

Overview

Operators with highly deviated wellbores will typically set ESPs in the vertical section because of concerns about running ESPs through the curve. Still, wells may not be fully optimized at start-up and require downsizing equipment as production declines.

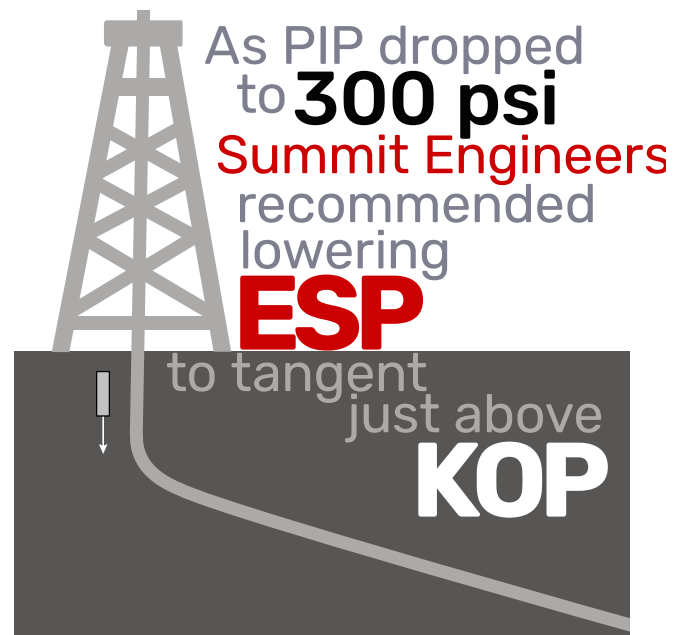
Challenge

Recently, a West Texas operator set a Summit ESP 30 ft. above the kickoff point (KOP) at approximately 4200 ft. total vertical depth (TVD) but was concerned about potential pump off as production declined and pump intake pressure (PIP) dropped to 300 psi.

Solution

Summit's Intelevate™ software platform team and Application Engineering team evaluated the well for optimal production using operational and key

performance indicator (KPI) data. The team recommended that the system be lowered to the tangent at around 60° inclination. Without pulling the well or changing out equipment, the ESP was re-used and lowered to 5200 ft. measured depth (MD) in the well.



Result

The lower set point increased PIP from 390 to 550 psi. Oil production increased by 330 BOPD, and gas increased by 475 MCFPD; the water-cut and gas-oil ratio (GOR) remained the same.

Trusting in the Summit team's recommendation added roughly \$26,000/day in production revenue (at \$77/BO and \$2/MSCF) to the customer's bottom line. For the 20 days following the change, that equates to just over \$520,000 with little to no additional costs incurred.

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