

UNBRIDLED ESP System handled challenging downhole conditions, doubled ESP run time over Bakken average

CASE HISTORY

CHALLENGES

- ▶ Customer's well was a challenging application for ESP systems due to harsh downhole conditions
 - 240° F bottomhole temperature
 - 1,734 gas-to-oil ratio
- ▶ Current average run time for ESP systems in the Bakken ~200 days

SOLUTIONS

- ▶ UNBRIDLED® ESP Systems installed an ESP designed to withstand the Bakken's harsh downhole conditions
 - Mitigated potential damage from corrosion with ferritic housing
 - Reduced wear from abrasives and increased run time with coated pump stages
 - Used high-strength shaft and stainless-steel heads and bases in the pump
 - Monitored gas interference in the pump using a sensor with discharge pressure
 - Monitored and optimized the ESP system via LOOKOUT™ monitoring services to improve run time
 - Held weekly optimization review meetings to avoid any potential issues and to ensure smooth ESP operation

RESULTS

- ▶ The UNBRIDLED ESP system improved run life by 200 days compared to the industry average in the Bakken play, eliminating a workover
- ▶ Increased customer's profit by \$35,000* by eliminating 2 days of deferred production to conduct a workover
- ▶ Reduced customer's CAPEX and OPEX costs by \$290,000

*Based on \$50 per barrel of oil



GRINDSTONE pump





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