Case History: HydroPull™



Record Number 72 Plugs Drilled in a Single Run with a HydroPull™ Tool

Case Study, Permian Basin, TX

- Casing 4 ½-in. 13.5 lb./ft.
- Lateral Length 8,585 ft. to 17,903 ft.
- Jointed Pipe Workover Rig
- 72 Composite Frac Plugs

After an unconventional oil well was drilled in the Permian Basin, the operator ran 4 ½-in., 13.5 lb./ft. casing to a depth of nearly 18,000 ft. MD. After the wellbore was prepared for fracturing, a plug and perf method was used to complete the well. A total of 72 Composite Frac Plugs were placed at spaced intervals in the horizontal wellbore from 8,585 ft. MD to 17,903 ft. MD.

The operator utilized a workover rig and jointed pipe for conveying the BHA. The 2 ⁷/₈-in. OD BHA consisted of a dual flapper valve assembly, a hydraulic disconnect, a 2 ⁷/₈-in. OD High Flow-High Impact Tempress HydroPull, a 2.8-in. OD Baker Hughes Navi-Drill[™] X-treme mud motor and a 3 ³/₄-in. OD Baker Hughes butterfly mill dressed with Glyphaloy[™] carbide cutting structure.

Past operations possessing similar lateral lengths typically required multiple trips to change out BHA components. This record-setting job involved milling out a total of *72 composite frac plugs* from a 9,318 ft. lateral in a 17,909 ft. MD horizontal well without incident and in a single HydroPull run. The average plug milling time was 20 minutes per plug and the operator saved 30 hours of rig time, saving extra BHA charges by eliminating a second trip to replace BHA components.



Tempress Screen Sub



Tempress HydroPull™ Tool

