

Case Study

Milling Optimization

F5 Motor Mills Record Number of Plugs
Case Study No. 4411

DETAILS:

Location:	Jefferson County, OH
Formation:	Utica
Casing Size:	5-1/2" 20#
Conveyance:	2-7/8" PH-6 Stick Pipe
Operation Depth:	21,689'
Well Orientation:	Horizontal
Fluid:	Produced Water
Operation Type:	Milling Composite Bridge Plugs
Tools Used:	3-1/8" TTS Milling Assembly

RESULTS:

A customer, utilizing 2-7/8" jointed pipe, was looking to complete a composite bridge plug mill out in a single run; both to minimize costs and improve efficiency. Due to the long lateral and high plug count, the Customer required a durable BHA that could maintain its performance to TD. Thru Tubing Solutions' 3-1/8" OD **F5 Downhole Motor** was designed for longevity, with the ability to handle high flow rates for optimal well cleaning and annular velocity. TTS was able to complete the mill out of all 85 bridge plugs, averaging 10min per plug, pumping a total 12,639 bbls of fluid through the motor. With a total of 101 hours downhole, TTS was able to meet the Customers' needs by completing the mill out in a single run, proving TTS' superior BHA components were the best option for the job.

HIGHLIGHTS



- Milled thru 85 Plugs in a Single Run
- Average Milling Time of 10 min/plug
- Increased Flow Rates with Larger OD Tools
- Improved Annular Velocity and Debris Cleaning due to Larger Flow Rates



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