

Case Study

All Metal Motor

Metal Motor Excels in Extreme Conditions

Case Study No. 4004

DETAILS:

Location:	Limestone, TX
Formation:	Pratt
Casing Size:	5" 23#
Conveyance:	2 3/8" SLH-90 Drill Pipe
Operation Depth:	17,998' (5486m)
Well Orientation:	Horizontal
Fluid	2% KCL & N ₂
Operation Type:	Milling Composite Bridge Plugs
Tools Used:	2.87" OD 4.7 Stage All Metal Motor

RESULTS:

The customer planned to mill four composite bridge plugs, using 2% KCL comingled with N₂ to help maintain circulation while milling. With previous runs made in this well resulting in failed motors, the customer was looking for a viable solution to withstand the high BHT, 400°F (204°C), and the high volume of N₂ needed to maintain circulation. TTS' **All Metal Motor** was the best motor for this job; with no fluid restrictions or temperature limitations the motor was able to maintain performance, complete the milling and reach TD. The motor was in hole for a total of 15 days; including a few days where the BHA was hung from the slips while the job was delayed, during which the **All Metal Motor** was exposed to extreme temperature, high volumes of N₂ 2500scf/min (71scm/min), and KCL fluid. The customer was able to eliminate additional BHAs and complete the well as planned.

HIGHLIGHTS



- No Temperature Limitations
- No Fluid Restriction
- Reliable Performance
- Exclusive Innovative Design



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