Case Study

All Metal Motor

Metal Motor Excels in Extreme Conditions
Case Study No. 4004

**RESULTS:**
The customer planned to mill four composite bridge plugs, using 2% KCL comingleed 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 2500 scf/min (71 scm/min), and KCL fluid. The customer was able to eliminate additional BHAs and complete the well as planned.

**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 & N₂
- **Operation Type:** Milling Composite Bridge Plugs
- **Tools Used:** 2.87” OD 4.7 Stage All Metal Motor

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

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