

# All Metal Motor

## Metal Motor Excels in Extreme Conditions



### HIGHLIGHTS

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

### DETAILS

|                  |                                    |
|------------------|------------------------------------|
| Location         | Limestone, TX                      |
| Formation        | Pratt                              |
| Casing Size      | 5" 23#                             |
| Well Orientation | Horizontal                         |
| Fluid            | 2% KCL & N2                        |
| Conveyance       | 2 3/8" SLH-90 Drill Pipe           |
| Operation Type   | Milling Composite Bridge Plugs     |
| Operation Depth  | 17,998 Ft                          |
| Tools Used       | 2.87" OD 4.7 Stage All Metal Motor |

### OBJECTIVE

Customer planned to mill four composite bridge plugs, using 2% KCL comingled with N2 to help maintain circulation while milling.

### RESULTS

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.

### VALUE TO CLIENT

The customer was able to eliminate additional BHAs and complete the well as planned.

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