

# All Metal Motor

TTS' 3-1/8" OD All Metal Motor Outperforms Conventional Motors in Plug Drill Out



## HIGHLIGHTS

- Single Run Operation
- No Temperature Limitations
- No Elastomers
- Exclusive Innovative Design

## DETAILS

Formation	Haynesville
Casing Size	5 1/2" 26#
Well Orientation	Horizontal
Fluid	Recirculated Fluid
Conveyance	2 3/8" Coiled Tubing
Operation Type	Plug Drill Out
Operation Depth	~21,600 Ft
BHT	>305°F
Tools Used	3.13" OD All Metal Motor

## OBJECTIVE

After stator issues with a competitor's conventional (elastomeric) motor, causing multiple days of down time, a customer in Louisiana was looking for a more rugged BHA for their well completions.

## RESULTS

It was decided to deploy TTS' milling BHA with an All Metal Motor. The All Metal Motor is equipped with a metal rotor and metal stator. Engineered to perform in wells with extremely harsh environments, this stator contains no elastomers which are typically damaged by high BHT and circulating fluid containing compounds not compatible with rubber. Using recirculated fluids, the motor drilled through 80+ composite bridge plugs and reached TD around 21,600' in a single run. The job took a total of 6 days in which the motor was exposed to a BHT of >305° F.

## VALUE TO CLIENT

The customer was able to reduce costs by eliminating motor issues and additional trips due to an elastomeric stator. Since this job, the customer has continued to use the All Metal Motor on four subsequent wells.

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