

# Case Study

# All Metal Motor

Milling Cement with Recycled Fluid  
Case Study No. 4003

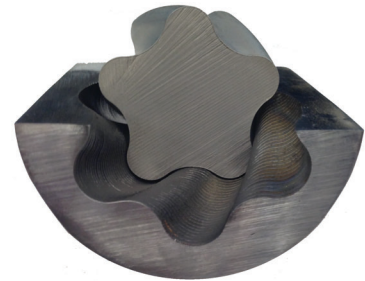
## DETAILS:

Location:	Horn River, BC Canada
Formation:	Liard
Casing Size:	5 1/2" 26#
Conveyance:	2 3/8" SLH-90 Drill Pipe
Operation Depth:	5228m (17,152')
Well Orientation:	Horizontal
Fluid	Recycled Water with 12+ PH
Operation Type:	Milling Cement
Tools Used:	2.87" OD 4.7 Stage All Metal Motor

## RESULTS:

The customer planned to mill 70m (230') of cement from their production casing using recycled water. Due to the high BHT in this area, 150° C (302° F), and high pH of the fluid, a standard drilling motor with an elastomeric power section would not be ideal for this type of operation. Thru Tubing Solutions' **All Metal Motor** was the best motor for this job; with no fluid restrictions or temperature limitations the motor was able to complete the milling with an average ROP of 2.9m/hr (9.6 ft/hr). The customer did not require filtration units or added chemicals to neutralize the fluid system and was pleased with the performance output of the motor.

## HIGHLIGHTS



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



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