

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