Case Study

All Metal Motor

Milling Cement with Recycled Fluid

Case Study No. 4003

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.

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

HIGHLIGHTS
• No Temperature Limitations
• No Fluid Restriction
• Reliable Performance
• Exclusive Innovative Design