Case Study
XRV G3 - Extended Reach Tool

XRV G3 Helps Milling Operation Average 5 min/plug in 10'200' Lateral
Case Study No. 4102

RESULTS:
Utilizing Thru Tubing Solutions' Milling Assembly in conjunction with the XRVG3, TTS was able to successfully mill out 29 composite plugs. The XRVG3 provided constant vibration, allowing the BHA to overcome friction and maintain 5 min mill times to reach TD with positive WOB, at 20,448’. The low differential pressure allowed for an increase in flow rate as the BHA reached the long lateral section; the increase in annular velocity aided in circulating all plug debris to surface keeping a clean wellbore. This extended lateral mill out was completed in just over 24 hours.

DETAILS:
Location: McKenzie County, ND
Formation: Bakken
Conveyance: 2” Coiled Tubing
Casing Size: 4-1/2” 13.5#
Kick Off Point: 10,200’
Total Measured Depth: 20,448’
Well Orientation: Horizontal
Fluid: Water
Type of Operation: Composite Plug Drill Out
Number of Plugs: 29 Plugs
Tools Used: 2-7/8” TTS Milling Assembly 2-7/8” XRVG3

HIGHLIGHTS
• Averaged 5 min/plug
• Maintained Positive WOB
• Eliminated Friction
• Low Differential Pressure