

CASE STUDY: 2-7/8" AMP Sand Cleanout w/Nitrogen - Grande Prairie, Alberta, CANADA

case study no. 0027



Overview

Location: Grande Prairie, Alberta

Well/Run Type: Oil & Gas cleanout run using Nitrogen (N₂)

Run Length: Cleanout to 4500 meters

Circulating / Drilling Hours: 69.5 hrs

Products / Services: InFocus 2.875" Drilling Motor w/AMP - All Metal Power section

Objectives

The objective of this run was to circulate through sand bridges that were cutting off gas production.

Results

An InFocus AMP - All Metal Power section was brought in to aid the Operator with this cleanout. The Operator did small sweeps, not trying to be aggressive to avoid the coil getting stuck behind the BHA. The Operator would tag sand bridges and do small wiper trips, circulating sand up and out of the well. It took 3 days to reach TD of 4500m following this practice.

100 l/min of fresh water and up to 50 SCM of nitrogen was pumped through the tool for 69.5 straight hours. As a bypass tool was not run above the AMP, all fluid and gas was pumped through the motor, which completed the entire run.

Upon return to InFocus, the motor was serviced and then Dyno tested. Post-run performance verification aligned perfectly to the benchmark pre-run Dyno verification.

Benefits

The Operator was able to utilize high N₂ rates throughout this run with no damage to the power section. This particular AMP now has 220 combined run hours on it as of this writing.

Operational Notes

BHA

Coil Connector

Bi-directional Jar

MHA (dual float, disconnect, circulation sub)

InFocus 2-7/8" AMP Motor, 9:10 Lobe 3.8 Stage

Pineapple Mill