

Case Study

Phase Separator

Maintained Motor Integrity while Pumping N₂
Case Study No. 3601

DETAILS:

Location:	Northern Alberta, Canada
Formation:	Montney
Casing Size:	4 1/2" 22.47 kg/m (15#)
Conveyance:	2 3/8" CT
Operation Depth:	4834m - 5292m (15,859 - 17,168')
Well Orientation:	Horizontal
Fluid:	Produced Water and N₂
Fluid Rate:	300 - 400 L/min (80 - 106 GPM)
N₂ Rate:	25 - 35 SCM (880 - 1236 SCF)
Tools Used:	2 7/8" Frac Port Milling Assembly

RESULTS:

A customer in the Montney wanted to mill out frac ports on a three well pad that had lower bottom hole pressure. Their goal was to maintain returns by comingling N₂ with produced water without sacrificing motor performance and milling effectiveness. Utilizing Thru Tubing Solutions' **Phase Separator** to re-direct the N₂ into the annulus, full returns were maintained allowing a total of 51 frac ports to be milled out in an average time of 12 - 15 minutes.

HIGHLIGHTS



- Successfully Separated Fluids
- Maintained Returns
- Consistent Motor Performance
- Prolonged Milling Effectiveness



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