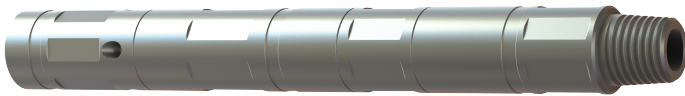


Phase Separator

Maintained Motor Integrity while Pumping N₂



HIGHLIGHTS

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

DETAILS

Location	Northern Alberta, Canada
Formation	Montney
Well Orientation	Horizontal
Fluid	Produced Water and N ₂
Fluid Rate	300 - 400 L/min (80 - 106 GPM)
N ₂ Rate	25 - 35 SCM (880 - 1236 SCF)
Conveyance	2 3/8" Coiled Tubing
Operation Depth	15,859-17,168 Ft
Tools Used	2 7/8" Frac Port Milling Assembly

OBJECTIVE

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.

RESULTS

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.

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