

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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