

## Case Study

# WAVFORCE<sup>TM</sup> XRV

WavForce XRV Breaks Two Canadian CT Depth Records on Same Pad  
Case Study No. 4307

### DETAILS:

|                       |  |
|-----------------------|--|
| Location:             | Alberta, Canada  |
| Formation:            | Duvernay   |
| Casing Size:          | 139.7mm   34.23kg (5.5"   23#) x<br>127mm   26.79kg (5"   18#)       |
| Conveyance:           | 60.3mm HT-125 Grade CT (2-3/8")                                      |
| Total Measured Depth: | 8216m   26,955'  |
| Lateral Length        | 4977m   16,424'  |
| Well Orientation:     | Horizontal   |
| Fluid:                | Water  |
| Operation Type:       | Frac Plug Millout  |
| Tools Used:           | 79.5mm (3-1/8") TTS Milling Assembly<br>79.5mm (3-1/8") WavForce XRV |

### RESULTS:

A TTS' business partner had a six well pad to millout in the Duvernay formation. The original plan was to millout the two shallowest wells with coil tubing. Due to the friction concerns, the remaining four wells were planned to be completed with a snubbing unit. TTS' recommendation was a 3-1/8" milling assembly with the proven WavForce XRV to successfully millout the initial wells to PBDT at 7286m (23,904') and 7723m (25,338'); with lateral lengths of 3475m (11,399') and 4078m (13,377'), respectively. With extraordinary performance seen on the first two wells, the client's confidence was boosted and decided to utilize coil tubing on two additional, deeper wells that were originally planned to be completed with a snubbing unit. The same TTS milling assembly was used on the third well to achieve a Canadian coil tubing depth record of 7986m (26,196') with a lateral length of 4479m (14,692'). A total of 91 dissolvable frac plugs were milled out in a single run. This newly achieved record was short lived as another Canadian coil tubing depth record was set after completion of the fourth well. TTS successfully milled out 94 dissolvable frac plugs to a depth of 8030m (26,345') covering 4791m (15,810') of lateral length, only stopping due to CT pipe limitations. Thru Tubing Solutions' relentless strive for excellence continues to shine through our field-tested personnel and top-quality downhole tools.

### HIGHLIGHTS



- Canadian CT depth record
- Maintained positive ROP
- Saved customer time and money



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