



THRELIX

SUCCESS STORY

DECREASE IN VIBRATIONS RESULTS IN 38% ROP INCREASE

Montney, Canada

\$105k
POTENTIAL COST SAVINGS

11K ft
SINGLE RUN FOOTAGE

38%
INCREASE IN AVERAGE ROP

TAQA's patented Threlix™ is designed to assist operators in mitigating drilling dysfunctions across multiple axis in Rotary Steerable applications. Threlix™ balances downhole torque against weight on bit to a consistent depth of cut while eliminating stick slip and HFTO, responsible for bit DBRs, RSS, MWD and LWD failures, and unnecessary trips.

THE CHALLENGE

A Montney operator was seeking to increase bit and RSS life in their 6.75" production sections to be able to drill longer and faster.

THE SOLUTION

After performing a detailed pre run analysis, the Threlix™ was added to their motorized RSS.



THE RESULT

The improved drilling consistency and significant decrease in vibrations, allowed for a 38% increase in average ROP and single bit run of the section.

Vibration Highlights

The graph shows the last 700 ft (200m) of recorded vibrations in three axis:

- Major decrease in axial and lateral levels
- 3 events of HFTO vs 18 in Well B
- Average ROP of 229ft/hr vs 65 ft/hr

BHA

- 6 3/4" PDC Bit
- Baker Lucida RSS
- MWD
- Threlix™
- 5 1/8" Mud Motor

Well	Tool	Total Drilled	ROP	Hours	Bit Grade
A	Threlix™	11,034	177 ft/hr	61.5	0-0-NO-A-X-0-NO-TD
B	Competitor	11,060	129 ft/hr	94.7	1-3-BT-S-X-0-NO-TD

