# DECREASE IN VIBRATIONS RESULTS IN 38% ROP INCREASE

Montney, Canada

## **TORSIONAL TECHNOLOGY**

TAQA's patented Threlix<sup>™</sup> is designed to assist operators in mitigating drilling dysfunctions across multiple axis in Rotary Steerable applications. The Threlix<sup>™</sup> 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.

### **BACKGROUND AND SOLUTION**

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. After performing a detailed pre run analysis, the Threlix™ was added to their motorized RSS. The improved drilling consistency and significant decrease in vibrations, allowed for a 38% increase in average ROP and single bit run of the section.

WELL	TOOL	TOTAL DRILLED	ROP	HOURS	BIT GRADE
А	Threlix™	11,034	177 ft/hr	61.5	0-0-NO-A-X-0-NO-TD
В	Competitor	12,060	129 ft/hr	94.7	1-3-BT-S-X-0-NO-TD



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# RESULTS

### **DECREASE IN VIBRATIONS**

HFTO, lateral and axial

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### AVERAGE ROP OF 177 FT/HR

38% increase

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# SINGLE RUN FOOTAGE 11,034 FT

0-0 Bit Grade

#### 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

