Case Study

159mm Multi-Leg Lateral

Alberta, Canada

Mechanical Thruster

Challenge

Multiple bit trips required per hole section, often per leg. Through a combination of bit and BHA optimization, reduce and eliminate bit trips while increasing on bottom ROP.

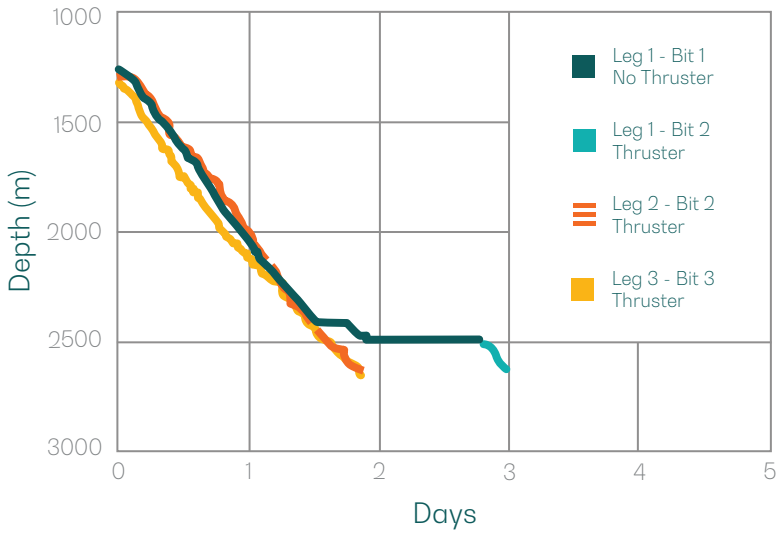
Application

Analyze BHA and well profile. Evaluate drilling performance requirements and specific objectives with client's drilling team and supporting services. Optimize MT3X-500 configuration and placement for maximum effectiveness.

Results

Single bit run achieved on the two legs drilled utilizing MT3X-500 from Sidetrack Point to TD, with each leg drilled in ~25 bit hours. First leg picked up MT3X-500 after required bit trip due to poor ROP, leg drilled in ~29 hours not including trip time.

Days vs Depth
159mm Lateral Sections



Average Section Time Reduction
15%

>30%
Reduction in Section Times to TD

Rate of Penetration (m/hr)	
Leg 1 - No Thruster	48.11
Leg 1 - Thruster	45.95
Leg 2 - Thruster	53.34
Leg 3 - Thruster	53.67

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