

# 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.

Average Section Time Reduction

**15%**



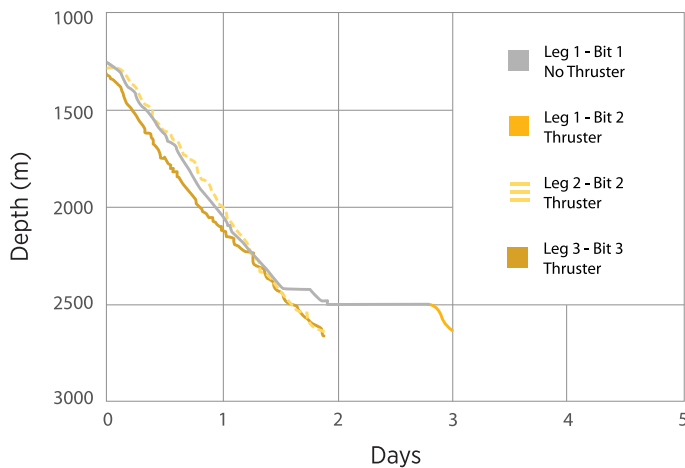
**>30%**

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

Days vs Depth  
159mm Lateral Sections



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