

Weatherford®

REAL RESULTS

Compact[™] Triple-Combo, Cross-Dipole Sonic Tools Reduce Reservoir Uncertainty in a Canadian Oil-Sands Project with 35 Wells

Objectives

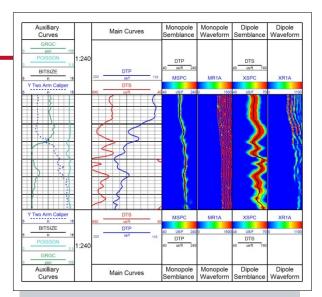
- · Minimize reservoir uncertainty in a major oil-sands project.
- Optimize completions. The shallow, unconsolidated sediments and washouts in this Canadian oil-sands field made adequate wellbore evaluations difficult, time-consuming, and challenging when using conventional technology.

Results

- Weatherford deployed the Compact triple-combo tool and the Compact cross-dipole (CXD) sonic tool to deliver a comprehensive formation evaluation, including the geomechanical properties of the project.
- With a 2 1/4-in. OD, the Compact triple-combo tool navigated past the restrictions more efficiently than standard tools.
- The CXD shear slowness read up to 700 μ s/ft (2,300 μ s/m) despite the rugged holes washed out to 15 in.
- The data acquired for all 35 wells matched the precision and resolution of larger conventional tools and enabled the operator to make exact seismic calibrations.

Value to Client

- Using Weatherford's Compact triple-combo and CXD tools enabled the operator to retrieve accurate formation evaluations with rock mechanical properties, reducing the reservoir uncertainty and optimizing the completions.
- The high operating efficiency of the Compact tools enabled the operator to navigate past obstructions, saving significant rig time.



The *Compact* cross-dipole tool shear slowness read 700 μ s/ft (2,300 μ s/m) with a rugged hole washed out to 15 in.

Location

Canada

Formation

Shaly sand

Well Type

Onshore

Hole Size

8-1/2 in.

Depth

1,000 ft (304 m)

Footage Logged

800 ft (243 m)

Products/Services

- Compact triple-combo
- · Compact cross-dipole sonic

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