

Seamless Execution of Openhole Sidetracks

Dual-Telemetry MWD Powers Fast, Accurate Multilateral Drilling in Clearwater Formation

Objectives

- Drill multilateral legs in the Clearwater formation, including openhole sidetracks, using a dual-telemetry MWD system.

Our Approach

- The Weatherford EMx dual-telemetry MWD tool and the HyperLine™ drilling motor combination enabled the operator to drill a 6-leg multilateral well with record distance achieved in 12 hr.
- Selected for its capability to drill directionally in multilayer formations, the HyperLine motor doubles the operating torque and power output of standard motors.
- All legs were completed in EM with no need to use the pulse telemetry dual mode.
- All legs were drilled using WellPlaced Survey Management (IFR2 + MSA + SAG) technology.
- The single lateral bottomhole assembly (BHA) drilled 13,807 m (45,298 ft) in just 73.75 drilling hours.
- The directional team maintained the trajectory within the specified target, achieving an average ROP of 168.4 m (552.4 ft) per hour over the 12-hour shift.

Value to Customer

- The Weatherford solution enabled the operator to maintain the drilling according to the well plan.
- The drilling technology increased the ROP over other drilling tools from earlier jobs.

LOCATION

Canada

WELL TYPE

Multilateral

FORMATION

Clearwater

HOLE SIZE AND ANGLE

159 mm, 90°

LENGTH DRILLED

13,807 m (45,298 ft)

AVERAGE ROP ROTATING

175.21 m/hr (574.83 ft/hr)

AVERAGE % SLIDE

8.08%

MOTOR HOURS

130.25

DRILLING HOURS

73.75

BELOW ROTARY

169 hr

MEASURED DEPTH

1,500 to 2,524 m (4,921 to 8,280 ft)
per leg

PRODUCTS/SERVICES

- HyperLine motor
- EMx dual-telemetry MWD system
- WellPlaced Survey Management (IFR, MSA, SAG)

