Weatherford®

REAL RESULTS

DDV® Downhole Deployment Valve Answers Challenge of Drilling Underbalanced Exploration Well from Slant Rig

Objectives

- Safely and economically perform underbalanced drilling of an exploration well with a 35° inclination from a slant rig. This project precluded the use of a snubbing unit when tripping tubulars and deploying a long, complex logging suite and intricate completion assembly.

Results

- The answer was Weatherford's *DDV* tool installed as part of the surface casing. In the world's first such installation from a slant rig, the *DDV* tool was set at a 35° inclination to a depth of 1,100 ft (335 m).
- The well was safely logged in two runs without the need for long lubricator assemblies and a crane.
- For the completion, a slotted liner, inflatable packer and cementing stage tool were safely deployed through a 7-in., 26-lb/ft, 3,000-psi (20.7-MPa), *DDV* tool, NACE rated for sour service.

Value to Client

- All safety challenges were met, which included mitigating the risks to personnel having to assemble and handle tools on a 35° derrick incline. Removing the hazards of a wireline sheave suspended overhead by a crane and a snubbing unit played a key role in the safe conduct of this operation.
- Overall drilling efficiency, including shorter trip times, installed options, and no snubbing, resulted in favorable economics.

Weatherford's *DDV* tool allows safe installation of drillstrings and completion assemblies during underbalanced operations and increases well productivity by avoiding formation damage. The *DDV* tool reduces well costs and risk exposure with faster tripping and elimination of the need for snubbing units.

Location
Western Canada, onshore

Well Type
Underbalanced exploration

Rig
Slant

Hole Angle
35°

Setting Depth
1,100 ft (335 m)

Products/Services
- Underbalanced drilling services
- *DDV* downhole deployment valve

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