Compact™ Drop-Off System

Conveys a Compact memory-logging tool string through the drillpipe in challenging wellbores

Applications

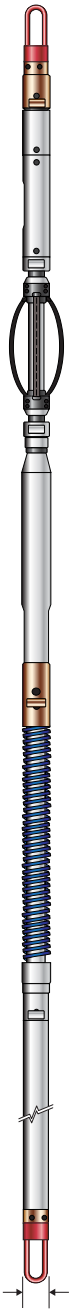
- Overcome the NPT associated with gravity-assisted wireline conveyance caused by:
  - Ledges and washouts
  - Creeping salts and swelling shales
  - Differential sticking
  - Keyseating

Features and Benefits

- The Compact drop-off (CDO) system reduces risk and eliminates repeated logging attempts associated with difficult hole conditions, saving time and costs.
- The tool can be retrieved using the wireline, enabling early recovery of data or of the tool in the event of a stuck drillstring.
- CDO technique can be combined with impulse technology to enable duplex communication, which enables the CDO system to do pressure testing.
- Borehole conditioning hardware can be run in the BHA to clean the hole before the deployment of logging tools. That reduces rig time during logging operations.
- Surface pressure control and a drop-off float valve maintain full well control during the logging operation.

Tool Description

The Weatherford Compact drop-off system is a through-drillpipe conveyance method used to deploy a Compact memory logging (CML) tool string. The CML tool string is run on wireline through the drillstring and dropped off in a no-go arrangement in the BHA. The wireline is then recovered and the drillstring is pulled back to the surface while recording data to memory. A drop-off float valve is included in the BHA to enable tools to pass through it for drop-off or pick-up and to maintain well control throughout the operation.



The Compact drop-off system overcomes NPT associated with ledging and bridging in wireline logging by providing a conduit with the drillpipe and the BHA assembly.

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Specifications

System	CDO 650	CDO 550
Recommended hole size	> 7.88 in. (> 20 cm)	> 6 5/8 in. (> 17 cm)
Thread type	4.5 in. IF API	4.0 in. FH NC 40
Recommended makeup torque	17,000 ft-lb (23,049 N·m)	8,500 ft-lb (11,524 N·m)
Maximum flow rate (tools landed)	10 bbl/min (1.6 m^3/min)	5 bbl/min (0.79 m^3/min)
Maximum rotation rate (tools landed)	30 rpm	

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