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Common Coiled Tubing Drilling (ComCTD)

3-1/8 in. Common Coiled Tubing Drilling (ComCTD-3W) -(Wireline)
3-1/8 in. Common Coiled Tubing Drilling (ComCTD-3)-(Mud Pulse)

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Common Coiled Tubing Drilling (ComCTD)

One of the solution to enhancement oil recovery is in the old well to drill more holes for oil reservoir production.

With Coiled Tubing Drilling technology, fortunately, the advent of small hole horizontal drilling techniques has enabled wells to be drilled with increased reservoir contact. Damaged reservoirs can be sidetracked and stranded production accessed.

If it is enhanced by drilling underbalanced with the well flowing while drilling, the results can be outstanding.

Common Coiled Tubing Drilling (ComCTD) brings these techniques together in a safe and efficient way to produce more from existing wells.

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Common Coiled Tubing Drilling (ComCTD)

Common Coiled Tubing Drilling (ComCTD) also includes casing exit operations like whipstock setting or window milling.

Utilizing real-time system control and e-line high speed data transmission, or mud pulse data transmission, operations can be performed efficiently in under-balanced and over-balanced applications using any type of drilling fluid including aerated drilling fluid, foam or gas.

The system's set-up options consider issues of pass-thru restrictions in thru-tubing re-entry operations and are able to cover high build up rate needs as well as extended reach applications and geo-steering requirements.

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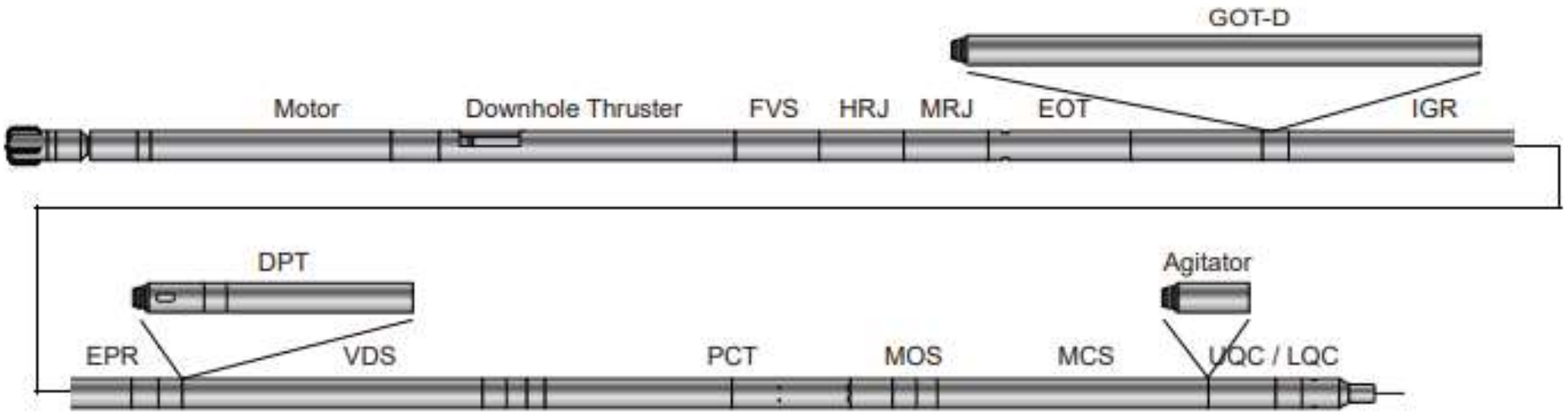
Common Coiled Tubing Drilling (ComCTD) BHA

Common Coiled Tubing Drilling (ComCTD-3W)-(Wireline) BHA



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Common Coiled Tubing Drilling (ComCTD)

Common Coiled Tubing Drilling (ComCTD-3W)-(Wireline)

1. Quick Connect Sub(UQC and LQC)
2. Agitator (Optional)
3. Mechanical Circulating Sub (MCS)
4. Mechanical Orienting Sub (MOS)
5. Power and Communication Tool (PCT)
6. Vibration & Shock Digital Attitude Sensor (VDS)
7. Drilling Performance Tool (DPT)(Optional)
8. Electromagnetic Propagation Resistivity Tool (EPR) (Optional)
9. Inclination and Gamma Ray (IGR)
10. Gyroscope Orienting Tool-Drilling (GOT-D) (Optional)
11. Electrical Orienting Tool (EOT)
12. Mechanical Release Joint (MRJ)
13. Hydraulic Release Joint (HRJ)
14. Float Value Sub (FVS)
15. Downhole Thruster (Optional)
16. Motor

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Common Coiled Tubing Drilling (ComCTD)

Coiled tubing with e-line + 3-1/8” LWD(ComCTD-3W)-(Wireline) operation specification

Tool OD	3-1/8” (80mm)
Hole size	3.5”~4.75” (89 mm~121 mm)
Temperature	300° F (150° C)
Pressure	15000 psi (1,000 bar)
Length	78.24 ft (23.85 m)
Weight	1470 lb (667 kg)
Connector	2-3/8” PAC box/pin
Power & Communication	E-line (7-conductor & 1-conductor)
Max Flow Rate	130 gpm (490 lpm)
Max Build Rate	45° /100 ft (45° /30 m)
Max WOB	25 klb (111 kN)
Max Overpull	25 klb (111 kN)
Max Sand Content	1%
Max Solid Content	7%

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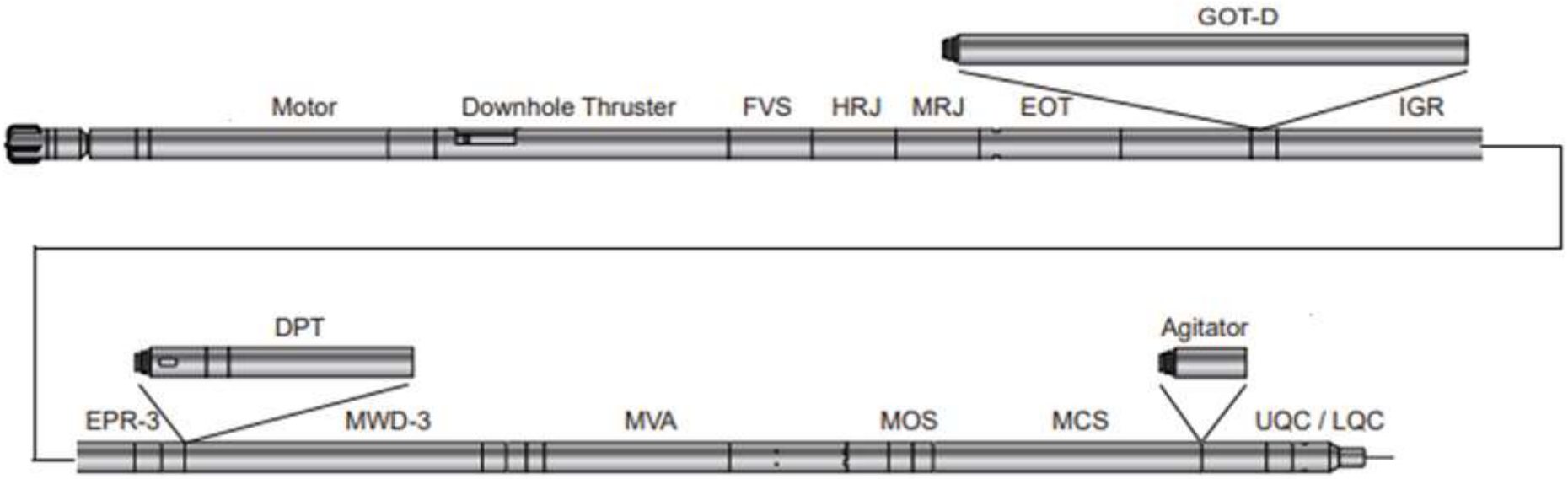
Common Coiled Tubing Drilling (ComCTD) BHA

Common Coiled Tubing Drilling (ComCTD-3)-(Mud Pulse) BHA



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Common Coiled Tubing Drilling (ComCTD)

Common Coiled Tubing Drilling (ComCTD-3)-(Mud Pulse)

1. Quick Connect Sub(UQC and LQC)
2. Agitator (Optional)
3. Mechanical Circulating Sub (MCS)
4. Mechanical Orienting Sub (MOS)
5. Main Valve Assembly (MVA)
6. Wireless Measurement While Drilling-3 (MWD-3)
7. Drilling Performance Tool (DPT)(Optional)
8. Electromagnetic Propagation Resistivity Tool (EPR-3) (Optional)
9. Inclination and Gamma Ray (IGR)
10. Gyroscope Orienting Tool-Drilling (GOT-D) (Optional)
11. Electrical Orienting Tool (EOT)
12. Mechanical Release Joint (MRJ)
13. Hydraulic Release Joint (HRJ)
14. Float Value Sub (FVS)
15. Downhole Thruster (Optional)
16. Motor

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Common Coiled Tubing Drilling (ComCTD)

Coiled tubing+3-1/8”LWD(ComCTD-3)-(Mud Pulse)

operation specification

Tool OD:	3-1/8” (80mm)
Hole Size	3.5”~4.75” (89 mm~121 mm)
Temperature	300° F (150° C)
Press	15000 psi (1,000 bar)
Length	79.82 ft (24.33 m)
Weight	2001 lb (912 kg)
Connector	2-3/8” PAC box/pin
Power	Battery
Communication	Mud Pulse
Max Flow Rate	130 gpm (490 lpm)
Max Build Rate	45° /100 ft (45° /30 m)
Max operation WOB	25 klb (111 kN)
Max Overpull	25 klb (111 kN)
Max Sand Content	1%
Max Solid Content	7%

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Common Coiled Tubing Drilling (ComCTD)

3-1/8”LWD

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Operation in Rig site