

Light Well Intervention System

A LOW-COST, FLEXIBLE WELL CONTROL SOLUTION

OVERVIEW

The Halliburton 15,000-psi light well intervention system (LWIS) is a versatile and cost-effective solution for open water mechanical and hydraulic intervention from mobile offshore drilling unit (MODU) or multi-service vessels (MSV). The system is field configurable for riser-based or riser-less operations on both vertical and horizontal subsea tree systems in water depths up to 10,000 feet (3048 meters). The LWIS lower module, the Lower Riser Package (LRP), provides well control and isolation in the event of an emergency. The upper module, the Emergency Disconnect Package (EDP), allows for emergency quick disconnects (EQD) from the LRP, and retention of riser fluids.

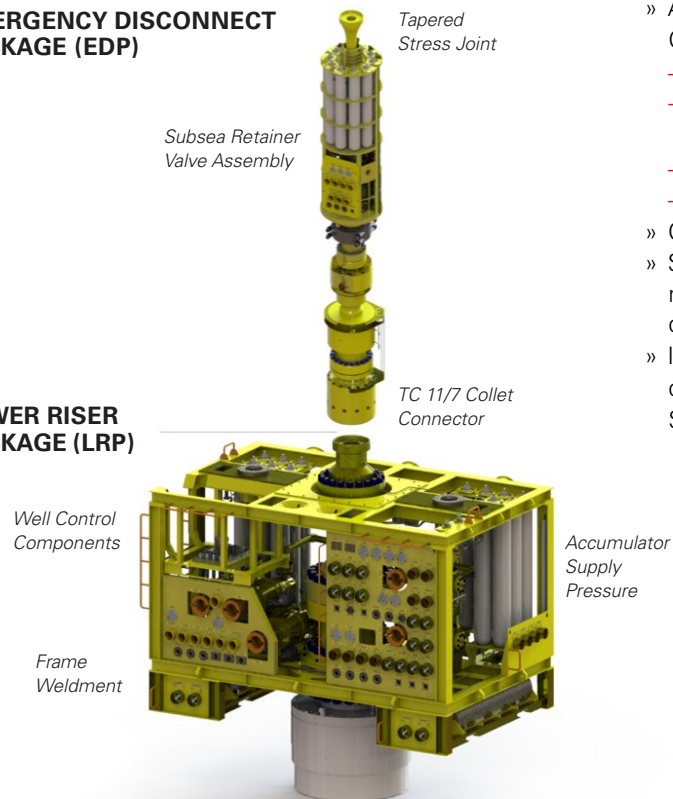
The LWIS saves operational time and deck space while reducing personnel on board (POB) through its unique design. The same equipment delivers three systems in one, allowing flexibility for Stimulation (Stim), Completion Workover Riser (CWOR) and Riser-less Light Well Intervention (RLWI).

Halliburton's proven 6-3/8" inch Veto™, 15,000 psi ball valves reduce the size and weight of the system

compared with traditional ram-based systems, while delivering Shear and Seal capabilities to the latest industry standards. The 50-inch OD EDP deploys through the rotary allowing for single trip deployment and recovery with the LRP. The electrohydraulic control system has the flexibility to be controlled by a single downline and/or through ROV controls.

EMERGENCY DISCONNECT PACKAGE (EDP)

LOWER RISER PACKAGE (LRP)



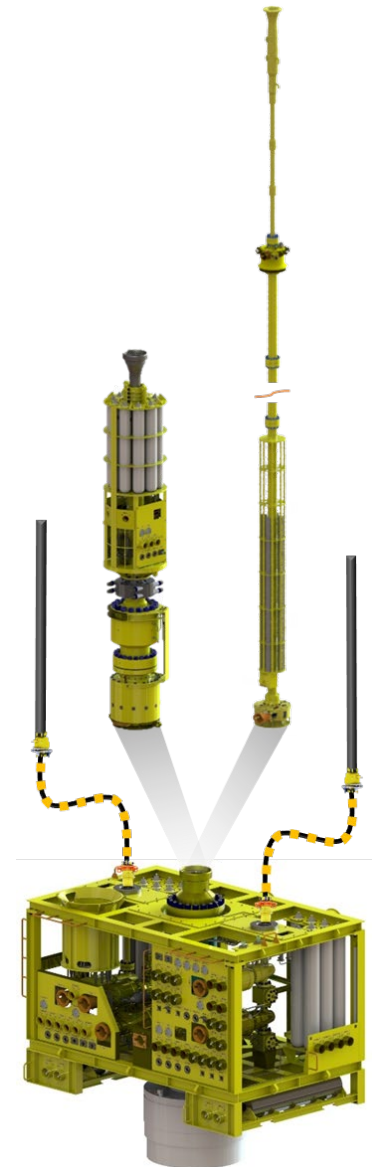
KEY FEATURES

Riser, Riserless and Stimulation

- 15,000-psi riser-less applications
- 15,000-psi riser-based applications
- 15,000-psi hydraulic stimulation applications
- » Single system reconfigurable offshore
- » 6³/₈-inch bore diameter
- » Maintains a dual-barrier philosophy at all times, with shearing and sealing valves qualified to API 17G Shear and Seal for:
 - Coiled tubing: 2-inch, QT-1100, .203-inch wall
 - Wireline: Slickline, braided and e-line
- » API 17G & STD 53 Operational Compliance with:
 - Emergency Shut-Down (ESD),
 - Emergency Disconnect Sequence (EDS) within 45 seconds
 - Deadman (DM)
 - Autoshear (AS) functions
- » Compatible with VXT and HXTs
- » Shallow water operations with maximum release angle of 10 degrees
- » Isolates riser fluids from environment during Emergency Disconnect Sequence

Specifications

Rated Water Depth	10,000 ft (3048 m)
Rated working pressure for Riser, Riserless and Hydraulic Stim system	15,000 psi (1,034 bar)
Production Bore Access	6.375 in (16.2 cm)
Annulus Bore Access (for circulation)	2 in (5.1 cm)
Product Specification Level (Wellbore Equipment)	PSL 3G
Temperature Rating for Wellbore Equipment	35°F to 250°F / 2°C to 121°C [Class "V"]
API Material Class (Wetted Surfaces)	EE
EDP Deployed Weight	22 T (19,960 kg)
LRP Deployed Weight	55 T (49,895 kg)
Barrier Rating EDP	Shear and Seal, Gas SSL
Barrier Rating LRP	Dual Shear and Seal, Gas SSL
ROV Interfaces	ROV bucket, hot stab, and grab handles per API 17
Control System	Electrohydraulic with downline and/or ROV controls
EDP Outside diameter	50-inch (deploy through 58-inch rotary table)
Lubricator Length	Up to 120 ft (36.6 m)
Lift Points	Compliance to DNV 2.7-3
Standards	Compliant with API RP 17G and STD 53 (as applicable)



For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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