Ideal for deep water and mature assets, Halliburton’s VersaFlex® Low Equivalent Circulating Density (ECD) system was developed to handle low pressure formations and fracture gradient sensitive wells. This system reduces pressure drop—as verified by independent field tests—across the liner-top during circulation and cementing for easier ECD management. Reduced pressure is achievable within a wide range of mud weights and is accomplished by a highly reduced outer diameter (OD) not found on industry-standard liner hanger equipment. The resulting increase in bypass area allows faster trip-in speeds. This flow-rate enhancement helps improve the cementing process as well, especially when integrating its reciprocation and rotation capability, increasing cement integrity.

VersaFlex Low ECD system carries a high-torque rating, which allows aggressive reaming and drill-in with liner when confronting adverse well conditions such as sloughing formations, swelling clays, and cave-ins. The VersaFlex Low ECD system also carries an improved operating envelope without inner diameter (ID) restrictions.

The ECD running tool works in tandem with the reduced-OD VersaFlex Low ECD expandable liner hanger (ELH) body. The VersaFlex ELH’s “set and forget” reliability and unmatched sealing capability is what makes our system ideal for deep water and mature assets. The VersaFlex ELH incorporates multiple elastomers to achieve a hydraulically energized, gas-tight seal, testable upon setting with bi-directional anchoring.

Features

- Larger bypass area
- Operating envelope comparable to industry-standard liner hangers
- No restrictions at the liner-top
- Utilizes same casing equipment
- Reduced OD
- Multiple elastomers
**Benefits**

- Reduced pressure drop across liner-top for tripping-in or circulating (verified by independent field tests)
- No ID restriction
- Gas-tight seal on setting
- Faster trip-in hole speeds

Modeled and confirmed through testing, trip-in hole speeds and circulation rates are improved up to 90% over industry-standard liner hanger systems.

**For more information on VersaFlex® Low ECD System, please call your local Halliburton representative or email us at completions@halliburton.com.**

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