

Deep understanding of deepwater issues

Weatherford knows that tight pore/frac pressure windows, wellhead constraints and the number of strings dictate close-tolerance casing and liner well designs. And that is why surge reduction in pressure-sensitive deepwater formations is so vital. That is why we developed a large-bore system with components designed to reduce surge pressures. And why we developed a system with compatible IDs, ODs, balls, darts, plugs, pressure regimes—everything working together from top to bottom to reduce surge, mud loss and formation damage to get you to TD faster. The performance-matched system.

Open-and-shut case for safety

Along with mitigating risks associated with excessive surge pressures and/or mud losses, the WellMaster system features the SurgeMaster" II diverter tool which excels at maintaining well control because it is the only system that runs-in closed. And the *only* system with diverter ports that open and close automatically as often as needed. And the *only* system that effectively combines the Model W ball seat, Sub-Surface Release[™] dual plug system, MudMaster[™] filter shoe and more.

Cost certainty and quality of well construction

The WellMaster system keeps things running smoothly. All system components have been proven in the most demanding applications. They provide repeatable reliability and compatibility for greater certainty of performance and costs. High-quality cementing is ensured with the top-drive cement head, centralizers, Sub-Surface Release dual plug system, plug indicator system, filter shoe and other performance-matched components.

Single-source efficiency and accountability

Why risk formation damage by setting the liner hanger using

Having one system from Weatherford saves you from having to deal with multiple sources and all the headaches of trying to find compatible components. You get a system that just screws together and goes to work. You get single-source efficiency and single-source accountability.



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personnel and interfaces Provides higher quality cementing, reduces construction/operational mistakes and offers greater certainty of costs with repeatable performance reliability Significantly reduces risk and potential cost of failure when running close tolerance strings of pipe The WellMaster casing/liner running and cementing system is here. One completely compatible system all built and all backed by Weatherford.

13 5/8 in.

12.375 in Casing ID

88.2 lb/ft Cas

In tight-tolerance casing/liner strings, the large-bore WellMaster system lowers surge pressures and mud losses and gets pipe to TD faster with exclusive performance-matched components. With its multiple-opening diverter tool, high-circulation liner-top packer, rotating liner hanger, full-bore access ball seat, sub-surface release plug system, high capacity auto-fill float collar, high-flow filter shoe—the WellMaster system is beyond compare in close-tolerance annuli.

Weatherford's WellMaster system answers the special needs and concerns of deepwater operators. Every system component is performance-matched to do what

Gets casing or liner to TD faster in wells with close-tolerance casing designs without creating high surge pressures that cause excessive mud loss and

Increases safety by improving well control and reducing the number of onsite

multi-sourced systems cannot do.

11 7/8 in.

71.8 lb/ft Line

formation damage

Total liner systems proven in the world's most challenging well construction projects, including record-breaking ultra-deep, high-angle and extended-reach liner installations. Weatherford personnel have expertise in all aspects of liner-job planning and installation. You can be sure your liner will be hung at the correct depth to provide effective zonal isolation when cemented.

0.125 in. Clear

Tight-tolerance liner installation sequence

12.125 in.

10.711 in Liner ID

Hanger Sys



Action sequence for the Model W ball seat and dual wiper plugs



Ball dropped
Ball lands in the seat—pressure is applied to the drill string to hvdraulically set the WPHS liner hanger and deactivate the

8. Bottom plug lands on float collar Bottom plug lands on float collar
Rupture sleeve in bottom plug breaks
Circulation established through bottom
Cementing the casing

