The Flex-Well® focuses on simplicity while providing all the components an operator requires to design and construct a completion which is fit for purpose; being as minimalistic or as intricate as the operator requires in order to accomplish maximum reservoir drainage. This completion string demonstrates some of the core components of the Flex-Well® that have been engineered to provide a low total-cost-of-ownership solution which meets operators’ current and future drilling, deployment and production challenges.

Alongside the completion string are the e-line tools which complement and complete the Flex-Well® by providing the scheduled interventions to keep the well optimized. Diagnostic tools to measure and record flow conditions, mechanical tools to manipulate the completion components (open/close) and clean-out tools to remove unwanted by-products such as scale or sand. And of course conveyance tools to deliver the solutions into the highly deviated environment.

**BENEFITS INCLUDE**

- Solid liner functionality for fast, safe deployment
- Full bore construction throughout ensuring the highest production rate capacity and easy re-entry
- Simple components without control lines which enable fast, efficient installation, ease of lateral placements and safe well abandonment
- Rugged, reliable annular barriers which allow for increased reservoir compartmentalization and the option for cementless completions
- Dependable e-line tools for regular interventions that optimize production and maximize total recovery, ensuring steady cash flow and a high ROI
- Diagnostics tools and software which record and combine the data into a seamless integration for efficient planning and execution with minimal personnel

The Flex-Well® provides all these benefits while simultaneously offering an approach that results in fewer people required offshore, simpler procedures and operations, smaller amounts of equipment deployed for shorter amounts of time.

Simply put, higher recovery in a safer, more sustainable way.
FLEX-WELL® LOWER COMPLETION
The Flex-Well® lower completion design incorporates several unique features which make it the best completion choice. These include a rugged, solid liner construction, full bore design with no control lines and well barriers which inflate on demand. Together these components deliver a lower completion designed for maximum control and production of today’s highly deviated, extended reach wells.

WELLTEC® ANNULAR BARRIER (WAB®)
The WAB® is a rugged, large expansion ratio, expandable metal well barrier that can be used for a wide variety of applications including cement assurance, zonal isolation, elimination of surface annular pressure and maximum reservoir compartmentalization. These displayed WAB’s feature built in centralizers that enhance the ability for the completion assembly to be deployed into extreme, extended reach wells.

WELLTEC® FLOW VALVE FOR INJECTION (WFV-IV)
The Welltec® Injection Valve is designed with ports which allow high volumes to be pumped for stimulation or pressure maintenance of the formation. Multiple IV’s can be put in the completion to ensure consistent stimulation placement where it is desired.

WELLTEC® FLOW VALVE FOR INJECTION WITH HIGH TORQUE DESIGN (WFV-IV-HT)
This injection valve is specially designed with high torque connections and spiral grooves to allow it to be rotated during installation. This facilitates running the completion assembly into extreme, extended reach wells.

WELLTEC® FLOW VALVE FIXED CHOKE (WFV-FC)
The Welltec® Flow Valve is designed with a fixed choke for each of its settings but these can be shifted from completely closed to fully opened. The flow valve can also be integrated into a sandscreen design to enable production of the hydrocarbons while preventing that of the unconsolidated formation.

WELLTEC® FLOW VALVE FIXED CHOKE WITH HIGH TORQUE DESIGN (WFV-FC-HT)
This flow valve is specially designed with high torque connections and spiral grooves to allow it to be rotated during installation. This facilitates running the completion assembly into extreme, extended reach wells. The flow entering the valves can be varied from completely closed to completely open through a variety of settings.

NOTE
The Flex-Well® components assembled here are examples of some of the innovative aspects of Weltec’s technology and are NOT representative of an actual lower completion design. These components can be put together in any combination to meet any operator’s specific needs for any reservoir.

*all valves can be operated using the Well Stroker® and Well Key® combination