

FloRite® Multilateral Completion System

FOR MULTILATERAL WELLS THAT REQUIRE COMPLETE JUNCTION PRESSURE ISOLATION

OVERVIEW

The FloRite® multilateral completion system is specifically designed for multilateral wells that require complete junction pressure isolation. This system also enables re-entry capability to access the lateral(s) through the completion during the life of the well. Applications include injection wells, gas wells, or wells whose zones or blocks have different hydraulic regimes. This capability helps eliminate the need to pull the completion if access to the lateral is required for cleaning, stimulation, zonal isolation, or data acquisition. With the installation of a dual completion, production from each lateral is completely segregated up to the surface. The hydraulic integrity at the junction provides the capability to construct dual-purpose injector/producer wells. Using the optional vector block, a single-string completion can be installed while maintaining selective access to either lateral of the junction.

FEATURES

- » Dual-string segregated flow option available (Figure 1)
- » Single-string, commingled flow option available (Figure 2), facilitated with optional vector block
- » Differential pressure ratings can be as high as 7,500 psi (51.7 MPa)
- » Incremental completion system to convert Level 2 and 4 multilateral junctions to Level 5
- » Systems can be stacked in series
- » Compatible with SmartWell® intelligent completion technology
- » Available in L80 and Incoloy® alloy

BENEFITS

- » Tubing in both laterals is installed in a single run
- » Modular integration with Level 2 and 4 systems in both new and re-entry applications
- » Junction placement becomes less dependent on local fracture gradients, pore pressures, competence, etc.
- » TAML 5 junction isolation maintains junction integrity when applied to gas and high-pressure injector wells
- » Dual-flow paths enable injection and production or segregated production from different reservoir layers

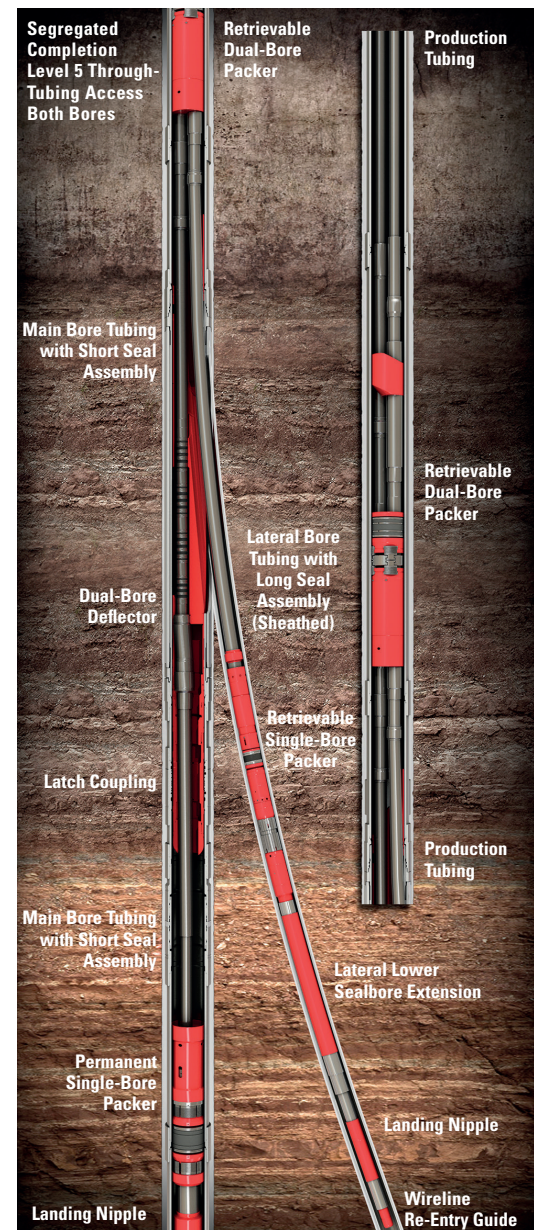


Figure 1 > Full isolation of lateral or main bore using through-tubing pressure-isolation sleeve (lateral isolation) or bridge plug (main bore isolation)

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FloRite® Multilateral Completion System Technical Specifications

TAML Level 5 Completion	
System Casing Size in. (mm)	9 5/8 (245)
Casing Weight lb/ft (kg/m)	43.5 to 47.0 (64.7 to 69.9)
Lateral Liner Size in. (mm)	7 (177.8)
Tubing Size in. (mm) (Segregated Flow)	3 1/2 x 3 1/2 (88.9 x 88.9)
Tubing Size in. (mm) (Commingled Flow)	4 1/2 x 3 1/2 x 2 7/8 (114 x 89 x 73)
Re-Entry (Commingled and Segregated Flow)	Through-tubing access to lateral and main bore using wireline or coiled tubing
Isolation	Full isolation of lateral or main bore using through-tubing pressure-isolation sleeve (lateral isolation) or bridge plug (main bore isolation)

TYPICAL FLORITE SYSTEM INSTALLATION SEQUENCE

- » Complete lower main bore and drill the lateral.
- » Install the lateral sealbore packer.
- » Install the FloRite dual-bore deflector (DBD), including the packer assembly and tailpipe, into the main bore.
- » For segregated flow, run in hole with dual-tubing string into the DBD in the main bore and the packer in the lateral. Set the upper dual-packer assembly.
- » For commingled flow, run in hole with a single tubing string and the vector block, which connects from below to both lateral and main bore strings.
- » Set the retrievable single-packer assembly above the vector block.
- » Install the upper completion and flow the well.



Figure 2 > FloRite® single-string commingled production/injection completions use optional vector block to maintain selective re-entry access and isolation for both the main bore and lateral bore.

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