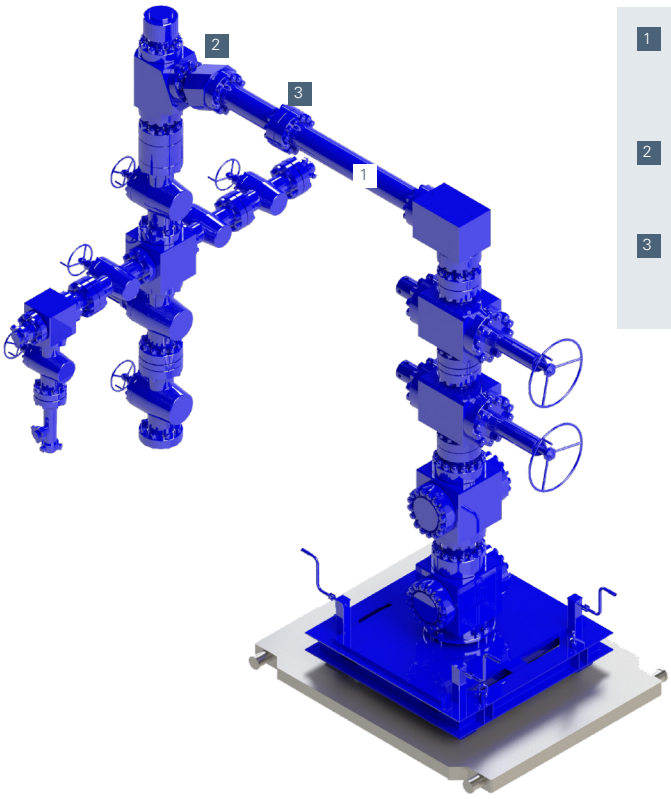
One Straight Line Frac Connection

Simplifying frac site

SPM™ Oil & Gas
A Caterpillar Company



1. 84% fewer connections, reducing potential leak paths, non-productive time, and rig-up time[1]
2. Flanged vs. hammer-union connections for greater safety and reliability slip segments
3. One simple, linear flow line for a cleaner site and less fluid friction

Engineered for demanding frac applications, the patent-pending One Straight Line (OSL) Frac Connection significantly reduces the amount of iron and connections required on the wellsite. This means a corresponding reduction

in non-productive time (NPT), rig-up time, labor costs, potential leak paths, and safety hazards. The single, straight, large-bore connection minimizes fluid friction, pressure drop, and erosion. It can be easily aligned between the manifold and the frac tree with standard controlled-torque connections-no hammer-union connections or special tooling required.

Specifications

- Patent-pending design, for use with the Vertical Zipper Manifold and the Frac Stack
- Employs standard API – 6A gaskets for seal faces
- Accommodates from 4" up to 7" connections up to 15,000 psi
- Fit-for-purpose system can be used for any well and tailored to any condition or basin
- A 2017 CFD analysis revealed approximately 70% less erosion compared to similar single-line designs from leading competitors[1]
- Available for rent, with service centers in every basin

[1] Refers to the combined configuration of the Vertical Zipper Manifold, the One Straight Line Frac Connection, and the Frac Stack. Comparisons to traditional configurations assume six frac lines per well and, in both cases, the manifold will be joined together with a flanged trunk line.

Benefits

- Reduction of wellsite footprint—one large-bore pipe vs. multiple pipes wrapped with safety restraints
- Fewer leak paths, failure points, and potential safety hazards
- Less NPT, rig-up time, and labor costs
- Minimization of fluid friction, pressure drop, and erosion
- Flange instead of hammer-union connections, for improved safety, greater reliability, and less rig-up time

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