

HYBRID WORKSTRING FEATURING TUBING DIMENSIONS WITH DRILL PIPE DURABILITY AND STRENGTH



FSS-265 Rugged Workstring Design

New workstring design with smaller OD connection giving more versatility when used for refracking existing wells.

Robust thread profile gives higher torsional strength allowing greater performance on wellbore cleanouts.

4.5 turns for makeup

Patent Pending

- ✓ Engineered for 4½ casing applications
- ✓ Metal to Metal seal
- ✓ Tested to 22,500 psi at 40deg/100ft bend radius
- ✓ Extended length upsets allow multiple recuts

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Frac String Performance Characteristics Sheet

Pipe Size and Weight: 2 7/8 7.90 IEU

Pipe Grade: S135

Range: 2

Connection: 3.250 X 2.0 FSS-265

Patent Pending

Frac String Pipe Body		
	New-API	Premium
OD (in)	2.875	2.765
Wall Thickness (in)	0.276	0.221
ID (in)	2.323	2.323
Calculated Plain End weights (lbs/ft)	7.657	5.996
Note: Premium properties are calculated based on uniform OD and wall thickness.		
Cross sectional area pipe body (in ²)	2.254	1.765
Cross sectional area OD (in ²)	6.492	6.003
Cross sectional area ID (in ²)	4.238	4.238
Section Modulus (in ³)	1.339	1.040
Polar Section Modulus (in ³)	2.677	2.081
	New-API	Premium
Torsional Strength (ft-lbs)	17,400	13,500
Tensile Strength (lbs)	304,200	238,200
80% Torsional Strength (ft-lbs)	13,900	10,800
Pressure Capacity (psi)	22,680	20,736
Collapse Capacity (psi)	23,432	18,971
Connection		
FSS-265		
	OD (in)	3.250
	ID (in)	2.000
Frack String with a Material Yield Strength of 135000 psi		
	Pin Tong length (in)	5
	Box Tong length (in)	7
		Friction Factor 1.15
	Torsional Strength (ft-lbs)	8,990
	Severe Service Level Recommended Make-up Torque (ft-lbs)(70%)	6,300
	Standard Service Level Recommended Make-up Torque (ft-lbs)(60%)	5,400
	Min Recommended Make-up Torque (ft-lbs)	4,500
	Balance OD (in)	3.237
	Tensile Strength (lbs)	246,500
	Min OD for Tension (in)	3.094
Frac String Properties		Frac String Bend Radius
API Adjusted weight (kg/m)(lbs/ft) 12.23 8.22		* These calculations are based on new pipe with nominal wall
Approximate length (M)(ft) 9.75 32.00		Based on Bending Stress (psi) at Pipe OD 15,000
Working Pressure 15,000		Radius of Curvature (R) (ft.) (@ OD of pipe) 239.6
Fluid Displacement CuM/M)(gal/ft) 0.00156 0.126		BUR (dogleg) deg/100 ft. 23.9
Fluid Capacity (CuM/M)(gal/ft) 0.00266 0.214		
Drift Size (mm)(in) 49.23 1.938		

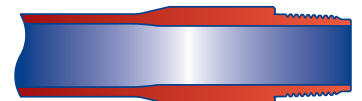
This Performance Sheet was generated by Nels Wickander.

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THIS TECHNICAL INFORMATION IS FOR REFERENCE ONLY

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