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FSS-338 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.

6.5 turns for makeup

- Engineered for 5½ casing applications
- Metal to Metal seal
- Tested to 22,500 psi
 at 40deg/100ft bend radius
- Extended length upsets allow multiple recuts

Patent Pending

(2) 13622 Poplar Circle, #401 Conroe, TX 77304

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Frac String Performance Characteristics Sheet

Pipe Size and Weight: 3 1/2 12.95 IEU

Pipe Grade: S135 Range: 2

Connection: 4.125 X 2.562 FSS-338 Patent Pending

Frac String Pipe Body			
	New-API	Premium	
Wall Thickness (in)	0.375	0.300	
ID (in)	2.750	2.750	
Calculated Plain End weights (lbs/ft)	12.510	9.768	
Note: Premium properties ar	e calculated based on unifor	m OD and wall thickness.	
Cross sectional area pipe body (in ²)	3.682	2.875	
Cross sectional area OD (in ²)	9.621	8.814	
Cross sectional area ID (in ²)	5.940	5.940 2.015	
Section Modulus (in ³)	2.605		
Polar Section Modulus (in ³)	5.210	4.030	
	New-API	Premium	
Torsional Strength (ft-lbs)	33,800	26,200	
Tensile Strength (lbs)	497,000	388,100	
80% Torsional Strength (ft-lbs)	27,000	21,000	
Pressure Capacity (psi)	25,313	23,143	
Collapse Capacity (psi)	25,829	22,014	

Connection

FSS-338

Frack String with a Material Yield Strength of 135000 psi

5 Pin Tong length (in) Friction Box Tong length (in) 7 **Factor** 1.15 **Torsional Strength (ft-lbs)** 18,810 21,632 Severe Service Level Recommended Make-up Torque (ft-lbs)(70%) 13,200 15,100 Standard Service Level Recommended Make-up Torque (ft-lbs)(60%) 11,300 13,000 Min Recommended Make-up Torque (ft-lbs) 9,400

> Balance OD (in) 4.106 Tensile Strength (lbs) 422,600

Min OD for Tension (in) 3.906

Frac String Properties		Frac String Bend Radius		
			* These calculations are based on new pipe with nominal wall	
API Adjusted weight (kg/m)(lbs/ft)	19.79	13.30		
			Based on Bending Stress (psi) at Pipe OD	15,000
Approximate length (M)(ft)	9.75	32.00		
			Radius of Curvature (R) (ft.) (@ OD of pipe)	291.7
Working Pressure		15,000		
Fluid Displacement CuM/M)(gal/ft)	0.00253	0.203		
Fluid Capacity (CuM/M)(gal/ft)	0.00376	0.303	BUR (dogleg) deg/100 ft.	19.6
			BUR (dogleg) deg/100 M.	64.5
Drift Size (mm)(in)	63.50	2.500		

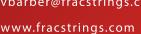
This Performance Sheet was generated by Nels Wickander.

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