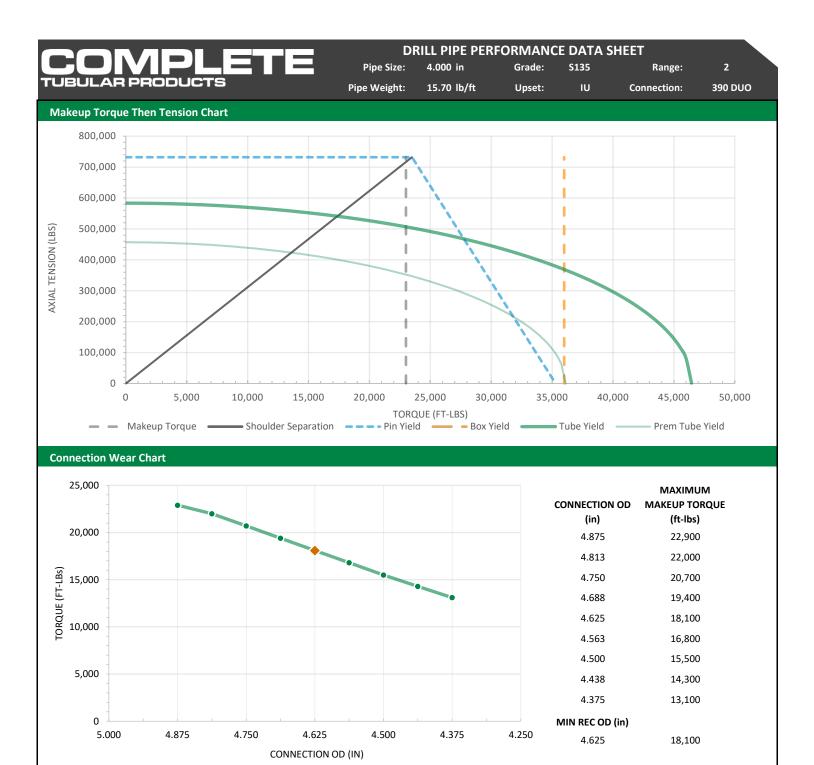
UBULAR PROD	UCTS		Pipe Size: 4.000			\$135		Range: 2
			Pipe Weight: 15.70	lb/ft	Upset:	IU	Connection:	390 DUC
ipe								
					NEW		REMIUM	
Pipe size	in	4.000	OD	in	4.000		.848	
Pipe weight	lb/ft	15.70	Thickness	in	0.380		.304	
Upset Type		IU	X-Sec Area	in <sup>2</sup>	4.322		.385	
Tube grade		S135	Section Modulus	in <sup>3</sup>	3.578		.782	
Range		2	Polar Section Modulus	in <sup>3</sup>	7.157		.564	
Tube Yield	ksi	135	Tensile Yield	lbs	583,000		7,000	
ID	in	3.240	Torsional Yield	ft-lbs	46,500		6,100	
			80% Torsional Yield	ft-lbs	37,200		8,880	
			Internal Pressure Yield	psi	22,400		0,500	
			Collapse Yield	psi	23,200	1	8,600	
			D/t		10.53	1	.2.66	
			Connection/Tube Torsional Ratio		0.759			
Connection Type		390 DUO	OD	in 	4.875			
1aterial Yield Strength	ksi	130	Tensile Yield Strength	lbs	732,000			
OD	in	4.875	Torsional Yield Strength	ft-lbs	35,300			
ID	in	2.688	Recommended Makeup Torque	ft-lbs	21,200			
Pin Shoulder Angle	deg	18	Maximum Makeup Torque	ft-lbs	22,900			
Pin Tool Joint Length	in	14.0						
Box Tool Joint Length	in	14.0						
rill Pipe Assembly								
			Shoulder-Shoulder Length	ft	31.50			
			Adjusted Weight	lbs/ft	17.17			
			Closed End Displacement	gal/ft	0.677	bbl/ft	0.0161	
			Open End Displacement	gal/ft	0.262	-	0.0062	
			Fluid Capacity	gal/ft	0.415	bbl/ft	0.0099	
			Drift Size	in	2.563			

Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any used product. It is recommended that drilling torque not exceed 80% of the makeup torque, however it is the responsibility of the end user to determine the acceptable use of the end product including appropriate performance ratings and safety factors where applicable. All connection torque calculations have been performed using a thread compound friction factor of 1.0. Complete Tubular Products does not endorse any specific thread compound and waives all responsibility in determining appropriate makeup torque values for any specific drilling circumstance. Modifying makeup torque values for any reason shall be done at the end users discretion and risk.

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