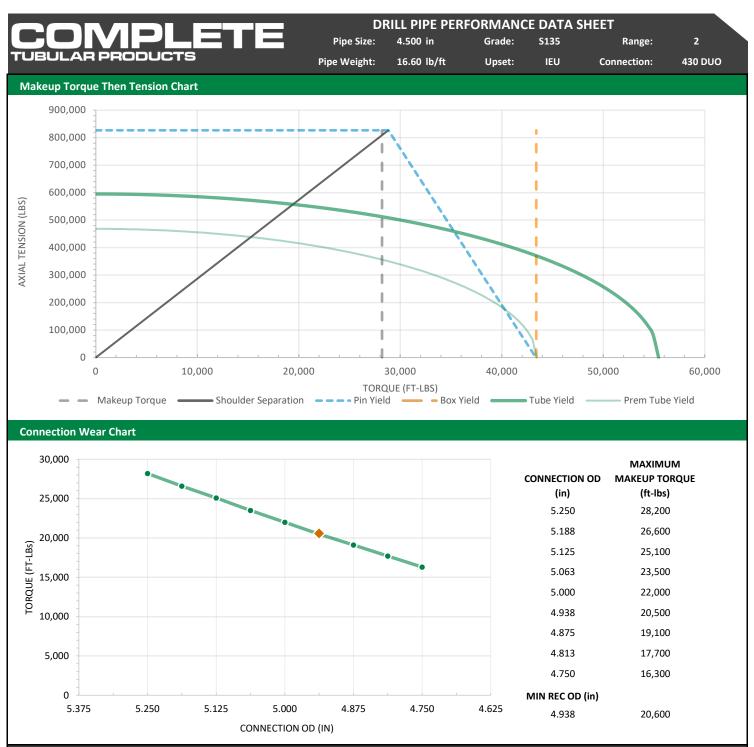
UBULAR PROD	UCT	'S	Pipe Size: 4.500			5135	Range:	2
		<u> </u>	Pipe Weight: 16.60	lb/ft	Upset:	IEU C	onnection:	430 DUC
іре								
					NEW	API PR	EMIUM	
Pipe size	in	4.500	OD	in	4.500	4.	365	
Pipe weight	lb/ft	16.60	Thickness	in	0.337	0.	270	
Upset Type		IEU	X-Sec Area	in ²	4.407	3.4	469	
Tube grade		S135	Section Modulus	in ³	4.271	3.	347	
Range		2	Polar Section Modulus	in ³	8.543	6.	694	
Tube Yield	ksi	135	Tensile Yield	lbs	595,000	468	3,000	
ID	in	3.826	Torsional Yield	ft-lbs	55,500	43,	,500	
			80% Torsional Yield	ft-lbs	44,400	34,	,800	
			Internal Pressure Yield	psi	17,700	16,	,200	
			Collapse Yield	psi	16,800	11,	,000	
			D/t		13.35	16	5.19	
			Connection/Tube Torsional Ratio		0.781			
Connection Type		430 DUO	OD	in 	5.250			
1aterial Yield Strength	ksi	130	Tensile Yield Strength	lbs	826,800			
OD	in	5.250	Torsional Yield Strength	ft-lbs	43,400			
ID	in	3.000	Recommended Makeup Torque	ft-lbs	26,000			
Pin Shoulder Angle	deg	18	Maximum Makeup Torque	-	28,200			
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	18.28			
			Closed End Displacement	gal/ft	0.851	bbl/ft	0.0203	
			Open End Displacement	gal/ft	0.279	bbl/ft	0.0066	
			Fluid Capacity	gal/ft	0.571	bbl/ft	0.0136	
			Drift Size	in	2.875			

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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The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate use of the technical information - no expressed or implied warranty by Complete Tubular Products is intended.

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