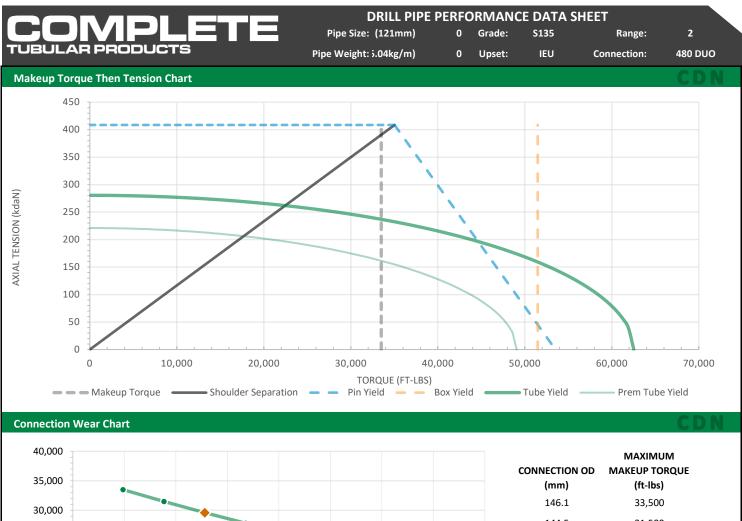
GOIVI			Pipe Size: 4.750 in (12			:1mm)	Grade:	S135	Range:	2	
UBULAR PROD	UCT	S		Pipe	Weight: 17.5lb/ft (2	6.04kg/m)	Upset:	IEU	Connection:	480 DUO	
Pipe										CDN	
							NEW		API PREMIUM	CLASS 2	
Pipe size	in	4.750	mm	120.7	OD	mm	120.7		117.2	95.8	
Pipe weight	lb/ft	17.50	kg/m	26.04	Thickness	mm	8.6		6.8	6.8	
Upset Type		IEU			X-Sec Area	cm ²	30.1		23.7	18.9	
Tube grade		S135		Se	ection Modulus	cm ³	78.9		61.9	39.3	
Range		2		Polar Se	ection Modulus	cm ³	157.9		123.9	78.7	
Tube Yield	МРа	931			Tensile Yield	kdaN	281		221	137	
ID	mm	103.5			Torsional Yield	ft-lbs	62,500		49,100	24,200	
				80%	Torsional Yield	ft-lbs	50,000		39,280	19,360	
				Interna	Pressure Yield	МРа	115.8		105.5	96.5	
					Collapse Yield	MPa	103.4		65.5	85.5	
					D/t		14.09		17.12	14.18	
			Connecti	ion/Tube	Torsional Ratio		0.824				
rool Joint										CDN	
							NEW				
Connection Type		480 DUO			OD	mm	146.1				
Material Yield Strength	МРа	896		Tensile	Yield Strength	kdaN	409				
OD	mm	146.1		Torsiona	l Yield Strength	ft-lbs	51,500				
ID	mm	92.1	Recomr	mended N	/lakeup Torque	ft-lbs	30,900				
Pin Shoulder Angle	deg	18	Ma	aximum N	/lakeup Torque	ft-lbs	33,500				
Pin Tool Joint Length	mm	356									
Box Tool Joint Length	тт	356									
Drill Pipe Assembly										CDI	
			Sh	houlder-S	houlder Length	т	9.60				

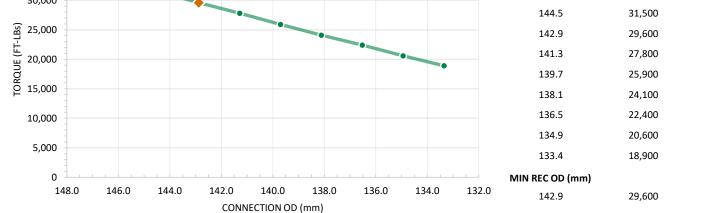
Shoulder-Shoulder Length	т	9.60			
Adjusted Weight	kg/m	28.53			
Closed End Displacement	L/m	11.85	m³/m	0.01185	
Open End Displacement	L/m	3.64	m³/m	0.00364	
Fluid Capacity	L/m	8.22	m³/m	0.00822	
Drift Size	mm	88.9			

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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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