JUIVIE				ĺ	Pipe Size: 4.500 in (11	.4mm)	Grade:	S135	Range:	2	
BULAR PROD	UCT	5		Pipe	e Weight: 16.6lb/ft (2	4.70kg/m)	Upset:	IEU	Connection:	DS40	
e										CD	
							NEW		API PREMIUM		
Pipe size	in	4.500	mm	114.3	OD	mm	114.3		110.9		
Pipe weight	lb/ft	16.60	kg/m	24.70	Thickness	mm	8.6		6.8		
Upset Type		IEU			X-Sec Area	cm <sup>2</sup>	28.4		22.4		
Tube grade		S135		5	Section Modulus	cm <sup>3</sup>	70.0		54.8		
Range		2		Polar S	Section Modulus	cm <sup>3</sup>	140.0		109.7		
Tube Yield	МРа	931			Tensile Yield	kdaN	265		208		
ID	mm	97.2			Torsional Yield	ft-lbs	55,500		43,500		
				80%	6 Torsional Yield	ft-lbs	44,400		34,800		
				Intern	al Pressure Yield	МРа	122.0		111.7		
					Collapse Yield	МРа	115.8		75.8		
					D/t		13.35		16.19		
			Connect	ion/Tube	e Torsional Ratio		0.638				
ol Joint										CD	
							NEW				
Connection Type		DS40			OD	mm	133.4				
terial Yield Strength	МРа	896		Tensi	le Yield Strength	kdaN	374				
OD	mm	133.4		Torsion	al Yield Strength	ft-lbs	35,400				
ID	mm	68.3	Recom	mended	Makeup Torque	ft-lbs	21,200				
Pin Shoulder Angle	deg	18			- ·						
in Tool Joint Length	mm	356									
ox Tool Joint Length	mm	356									

Drill Pipe Assembly					C	DN
	Shoulder-Shoulder Length	т	9.60			
	Adjusted Weight	kg/m	27.99			
	Closed End Displacement	L/m	10.57	т ³/т	0.01057	
	Open End Displacement	L/m	3.57	m³/m	0.00357	
	Fluid Capacity	L/m	7.00	m³/m	0.00700	
	Drift Size	mm	65.1			

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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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