JUIVIH				F	Pipe Size: 4.500 in (11	L4mm)	Grade:	S135	Range:	2	
JBULAR PROD	UCT	S		Pipe	Weight: 16.6lb/ft (2	4.70kg/m)	Upset:	IEU	Connection:	400 DUO	
ipe										CDN	
							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 ²	28.4		22.4		
Tube grade		S135		S	ection Modulus	cm ³	70.0		54.8		
Range		2		Polar S	ection Modulus	cm ³	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		
				Interna	al Pressure Yield	MPa	122.0		111.7		
					Collapse Yield	МРа	115.8		75.8		
					D/t		13.35		16.19		
			Connect	ion/Tube	Torsional Ratio		0.876				
ool Joint											
bol Joint							NEW				
Connection Type		400 DUO			OD	mm	133.4				
laterial Yield Strength	МРа	896		Tensil	e Yield Strength	kdaN	409				
OD	mm	133.4			al Yield Strength		48,600				
ID	mm	68.3	Recom		Makeup Torque	•	29,200				
Pin Shoulder Angle	deg	18			Makeup Torque	-	31,600				
Pin Tool Joint Length	mm	356				-	-				
Box Tool Joint Length	mm	356									

Drill Pipe Assembly					DR
Shoulder-Shoulder Length	т	9.60			
Adjusted Weight	kg/m	27.99			
Closed End Displacement	L/m	10.57	m³/m	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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