COMPLETE GROUP

DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size:	**2.375 in**	**Grade:**	**S135**	**Range:**	**2**
Pipe Weight:	**6.65 lb/ft**	**Upset:**	**EU**	**Connection:**	**CTP 23**

Pipe

					NEW	API PREMIUM
Pipe size	*in*	2.375	OD	*in*	**2.375**	2.263
Pipe weight	*lb/ft*	6.65	Thickness	*in*	**0.280**	0.224
Upset Type		EU	X-Sec Area	in^2	**1.843**	1.435
Tube grade		S135	Section Modulus	in^3	**0.867**	0.6670
Range		2	Polar Section Modulus	in^3	**1.733**	1.3340
Tube Yield	*ksi*	135	Tensile Yield	*lbs*	**249,000**	194,000
ID	*in*	1.815	Torsional Yield	*ft-lbs*	**11,300**	8,700
			80% Torsional Yield	*ft-lbs*	**9,000**	6,960
			Internal Pressure Yield	*psi*	**27,900**	25,500
			Collapse Yield	*psi*	**28,100**	24,100
			D/t		**8.48**	10.10
			Connection/Tube Torsional Ratio		**0.577**	

Tool Joint

					NEW	REC MIN OD
Connection Type		CTP 23	OD	*in*	**2.875**	2.813
Material Yield Strength	*ksi*	130	Tensile Yield Strength	*lbs*	**232,500**	232,500
OD	*in*	2.875	Torsional Yield Strength	*ft-lbs*	**6,500**	6,500
ID	*in*	1.500	Recommended Makeup Torque	*ft-lbs*	**3,900**	3,900
Pin Shoulder Angle	*deg*	35	Enhanced Makeup Torque	*ft-lbs*	**4,600**	4,500
Pin Tool Joint Length	*in*	11.0				
Box Tool Joint Length	*in*	13.0				

Drill Pipe Assembly

Shoulder-Shoulder Length	*ft*	**31.5**		
Adjusted Weight	*lbs/ft*	**6.96**		
Closed End Displacement	*gal/ft*	**0.237**	*bbl/ft*	0.0056
Open End Displacement	*gal/ft*	**0.106**	*bbl/ft*	0.0025
Fluid Capacity	*gal/ft*	**0.131**	*bbl/ft*	0.0031
Drift Size	*in*	**1.375**		

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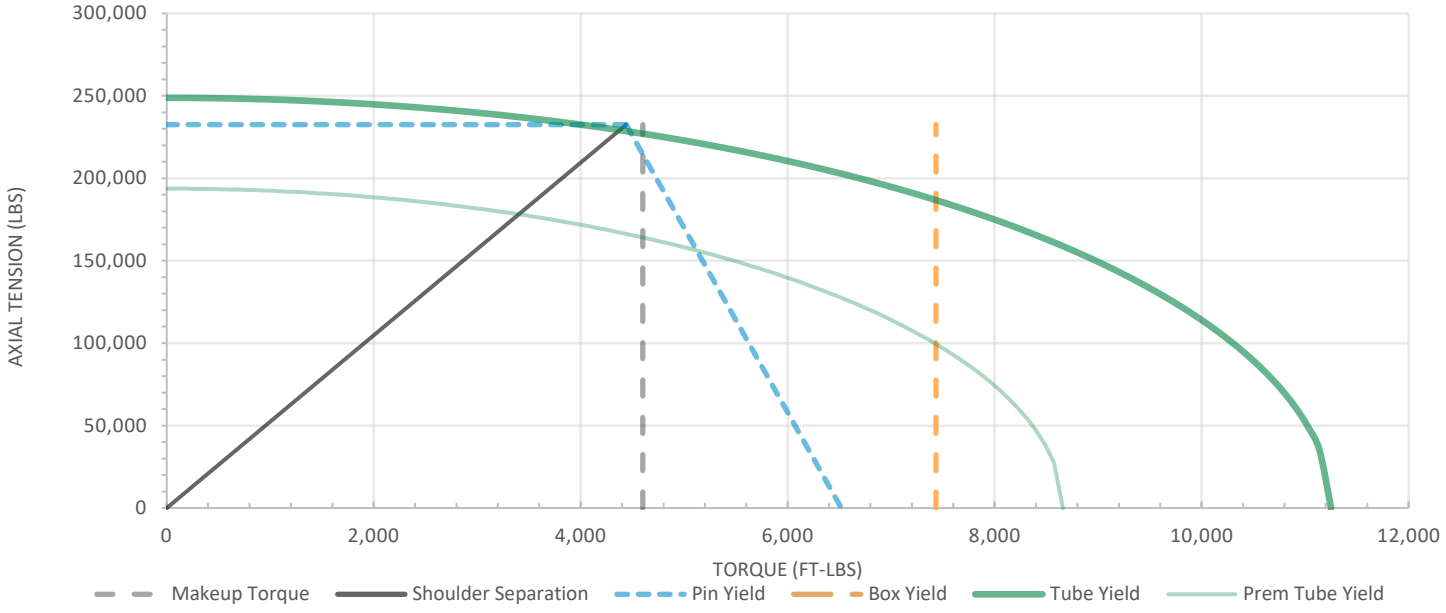
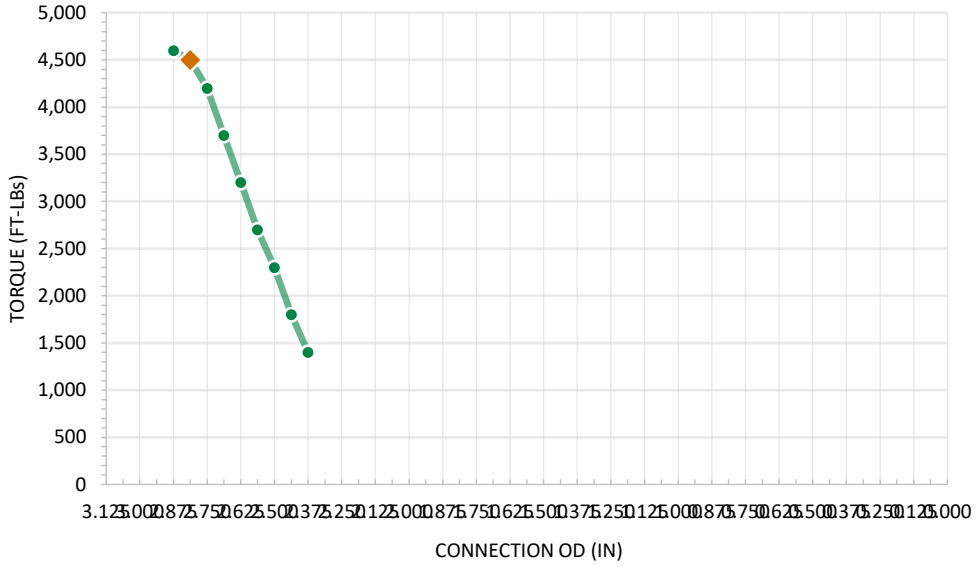
Makeup Torque Then Tension Chart



Connection Wear Chart



CONNECTION OD (in)	ENHANCED MAKEUP TORQUE (ft-lbs)
2.875	4,600
2.813	4,500
2.750	4,200
2.688	3,700
2.625	3,200
2.563	2,700
2.500	2,300
2.438	1,800
2.375	1,400
MIN REC OD (in)	
2.813	4,500

Ph: +1 (780) 980-3644
www.completegroup.com