COMPI		TE		DRILL PIPE PERFORMANCE DATA SHEET						
COLLIE				Pipe Size:	4.750 in	(121mm)	Grade:	S135	Range:	3
CHUCH				Pipe Weight:	26.04	kg/m	Upset:	IEU	Connection:	480 DUO
Pipe									MI	ETRIC
							NEW		API PREMIUM	
Pipe size	in	4.750	mm	120.7	OD	mm	120.7		117.2	
Pipe weight	kg/m	26.04		Thi	ckness	mm	8.6		6.8	
Upset Type		IEU		X-Se	c Area	cm ²	30.1		23.7	
Tube grade		S135		Section Mo	odulus	cm³	78.9		61.9	
Range		3		Polar Section Mo	odulus	cm³	157.9		123.9	
Tube Yield	МРа	931		Tensil	e Yield	kdaN	281		221	*See Elevator Capacity
ID	mm	103.5		Torsiona		N-m	84,700		66,600	
				80% Torsiona		N-m	67,800		53,300	
				Internal Pressure		МРа	115.8		105.5	
				Collaps		МРа	103.4		65.5	
					D/t		14.09		17.12	
			Conne	ection/Tube Torsiona	l Ratio		0.679			
Tool loint									M	TPIC
Tool Joint							NEW		REC MIN OD	INIC
Connection Type		480 DUO			OD	mm	142.9		142.9	
Material Yield Strength	МРа	896		Tensile Yield St		kdaN	367		367	
OD	mm	142.88		Torsional Yield St	_	N-m	57,530		57,500	
ID	mm	95.25	Reco	ommended Makeup T	•	N-m	34,600		34,400	
Pin Shoulder Angle	deg	18		Maximum Makeup T	-	N-m	37,400		37,400	
Pin Tool Joint Length	mm	356		·	•		•		,	
Box Tool Joint Length	mm	356								
J										
Drill Pipe Assembly									M	TRIC
				Shoulder-Shoulder I	ength	m	13.716			
				Adjusted V	Veight	kg/m	26.44			
				Closed End Displac	ement	L/m	11.69			
				Open End Displac	ement	L/m	3.37			
				Fluid Ca	pacity	L/m	8.32			
				Dr	ift Size	mm	92.1			

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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 Group 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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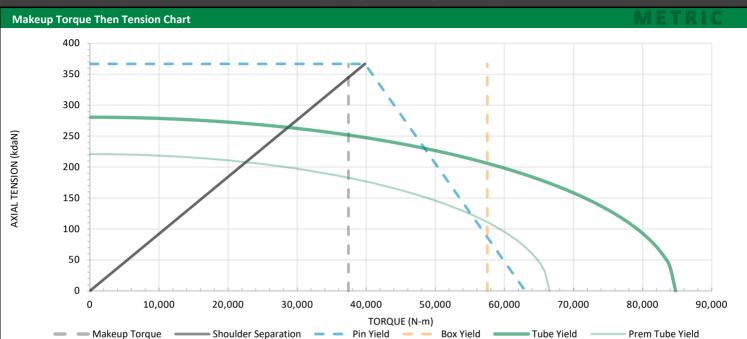
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COMPLETE GROUP

DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: 4.750 in (121mm) Grade: S135 Range: 3

Pipe Weight: 26.04 kg/m Upset: IEU Connection: 480 DUO



Connection Wear Chart 40,000 35,000 MAXIMUM 30,000 **CONNECTION OD MAKEUP TORQUE** (mm) (N-m) 25,000 TORQUE (N-m) 142.9 37,400 20,000 141.3 34,800 139.7 32.400 15,000 MIN REC OD (mm) 10,000 142.9 37,400 5,000 0 144.0 142.0 140.0 138.0

CONNECTION OD (mm)

ELEVATOR BORE (mm)

130.2

Elevator Capacity

BOX OD ELEVATOR CAPACITY

(mm)	NEW (kdaN)
142.9	244
141.3	212
139 7	181

Elevator capacity based on assumed elevator bore, with no wear factor, and a contact stress of 130,000 psi. It is provided as reference only and shall not be interpreted as an engineered safe lifting load.

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