# **Drill Pipe Data & Performance Sheet**

# 4" 14.00# S-135 R2 NC40 (4 FH)

## **TUBE BODY DATA**

### **CONNECTION DATA**

Tube OD	4.000 in.	Connection NC40 (4 FH)	
		Tool Joint OD5.250in.	
Wall Thickness	0.330 in.	Tool Joint ID2.688in.	
Tube ID	3.340 in.	Tool Joint SMYS120,000 psi.	
Tensile Yield Strength	403,500 Ibs. (API Premium 80% Inspection Class)	CONNECTION PERFORMANCE	
Torsional Yield Strength	32,800 ft-lbs. (API Premium 80% Inspection Class)	Make Up Torque (Max.) <sup>1</sup> 15,300 ft-lbs. (1.0 FF)   17,595 ft-lbs. (1.15 FF)	
Upset Type   Upset OD (max)	IU 4.1875 in.	Connection Tensile Yield (@ Max. M/U TQ) 653,700 lbs.	
Elevator Capacity	798,434 lbs.	Connection Torsional Yield 25,500 ft-lbs.	
Tube Burst	17,820 psi. (API Premium 80% Inspection Class)	ENGINEERING DATA	
Tube Collapse	13,836 psi. (API Premium 80% Inspection Class)	Approximate Length 31 ft.	
Slip-Crush Capacity	386,300 lbs.	Drift Diameter 2.563 in.	
(16.5" gripper contact length)	300,000 103.	Adj. Weight 15.95 lbs. / ft.	
		Displacement 0.2437 gal. / ft. 0	0.0058 bbls. / ft.
		<b>Capacity</b> 0.4387 gal. / ft. 0	0.0104 bbls. / ft.

#### Notes:

<sup>1</sup>Max MUT 1.0 FF is 60% of connection torsional strength. As required, adjust MUT according to applied thread compound friction factor, not exceeding 1.15. Rec MUT for most applications is that shown for 1.0 FF, regardless of dope used. Higher MUT should only be applied where rotary torque exceeds 80% of MUT 1.0 FF or when downhole torque and/or backoff is a concern.

The technical information contained herein, including the product performance sheet and other attached documents, has been extracted from information available from the manufacturer and is for reference only and not a recommendation. The user is fully responsible for the accuracy and suitability of use of the technical information. Patterson Servicers, Inc. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Drill pipe assembly properties are calculated based on uniform OD and wall thickness. No safety factor is applied. Weight, displacement, and capacity are approximate and can vary by ± 10% (or more) depending on OD, specified wall, wall tolerance, and internal coating options. It is the responsibility of the customer and the end user to determine the appropriate performance ratings, acceptable use of the product, maintain safe operational practices, and to apply a prudent safety factor suitable for the application. For API connections that have different pin and box IDs, tool joint ID refers to the pin ID. Per Chapter B, Section 4 VII of the IADC drilling manual, it is recommended that drilling torque should not exceed 80% of MUT.

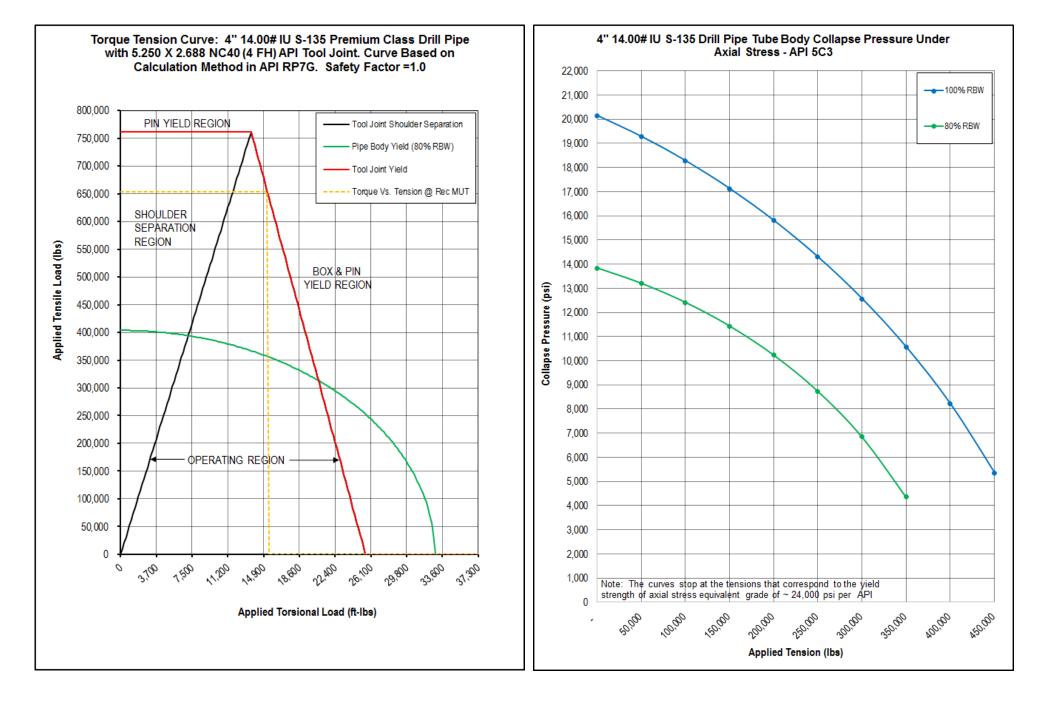


Alice, Texas 361-668-8231

AS Broussard, Louisiana 131 337-359-9900 Elk City, Oklahoma Odd 580-243-0055 43

Odessa, Texas 432-563-2172 Washington, Pennsylvania 724-222-1219

Williston, North Dakota 701-572-1914





Alice, Texas 361-668-8231

Broussard, Louisiana 31 337-359-9900 Elk City, Oklahoma 580-243-0055

Odessa, Texas 432-563-2172 Washington, Pennsylvania 724-222-1219

Williston, North Dakota 701-572-1914