Drill Pipe Data & Performance Sheet

5" 19.50# GCY-105 R2 NC50 (4-1/2 IF)

TUBE BODY DATA

CONNECTION DATA

Tube OD	5.000 in.	Connection	NC50 (4-1/2 IF)
		Tool Joint OD	6.625 in.
Wall Thickness	0.362 in.	Tool Joint ID	3.250 in.
Tube ID	4.276 in.	Tool Joint SMYS	120,000 psi.
Tensile Yield Strength	436,100 Ibs. (API Premium 80% Inspection Class)	CONNECTION PERFORMANCE	
Torsional Yield Strength	45,200 ft-lbs. (API Premium 80% Inspection Class)	Make Up Torque (Max.) ¹	30,700 ft-lbs. (1.0 FF) 35,305 ft-lbs. (1.15 FF)
Upset Type Upset OD (max)	IEU 5.125 in.	Connection Tensile Yield (@ Max. M/U TQ)	1,117,100 lbs.
Elevator Capacity	1,440,220 lbs.	Connection Torsional Yield	51,000 ft-lbs.
Tube Burst	12,163 psi. (API Premium 80% Inspection Class)	ENGINEERING DATA	
Tube Collapse	8,765 psi. (API Premium 80% Inspection Class)	Approximate Length	31 ft.
Slip-Crush Capacity	387,600 lbs.	Drift Diameter	3.125 in.
(16.5" gripper contact length)	007,000 103.	Adj. Weight	23.11 lbs. / ft.
		Displacement	0.3531 gal. / ft. 0.0084 bbls. / ft.
		Capacity	0.7157 gal. / ft. 0.0170 bbls. / ft.

Notes:

¹Max 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.

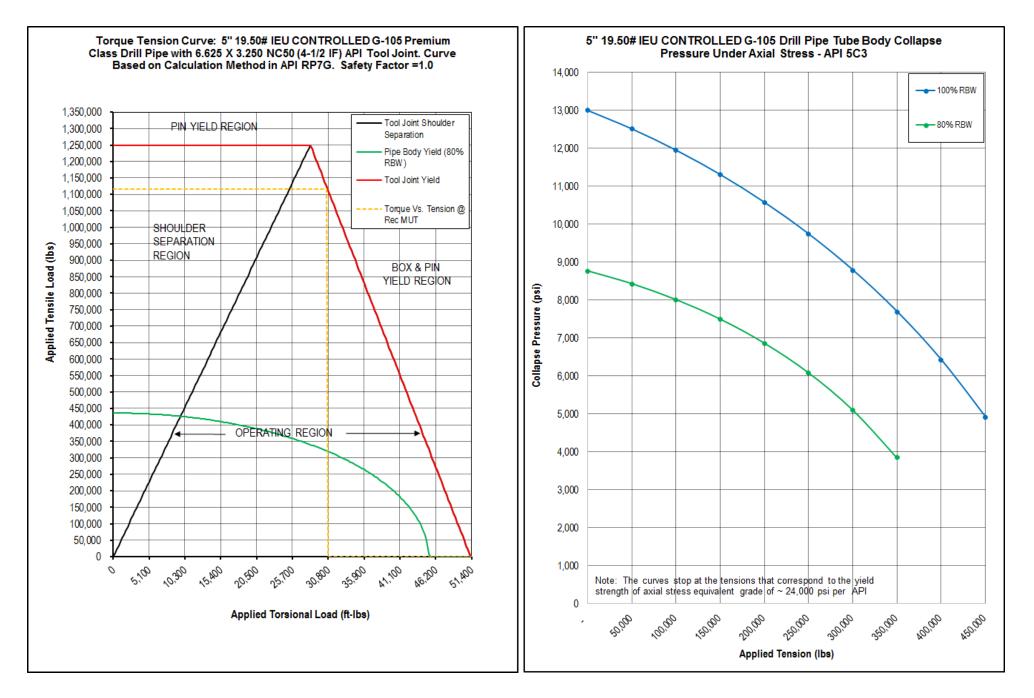


Alice, Texas 361-668-8231

as Broussard, Louisiana 31 337-359-9900 Elk City, Oklahoma Odd 580-243-0055 43

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