

Equipment No's: Ref. Enclosed page

Spec. No.:

DP-5.875-02

TECHNICAL SPECIFICATIONS

5-7/8" OD Drill Pipe, S-135, XT-57 Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type IEU, 23.40 #
 Range 2
 Conventional=welded T-J. / Integral=Monoblock Conventional

TUBE DATA

Material grade				S-135	
Internal plastic coating				TK-34P	
Tube body OD x ID	inch	5,875	5,153	5,731	5,153
Wall thickness, nominal	inch	0,361		0,289	
Cross Sectional Area	inch ²	6,254		4,937	
Polar Sectional Modulus	inch ³	16,251		12,793	
Tensile yield pipe	lbf	844 200		666 500	
	kN	3 755		2 965	
Torsional yield pipe	lbf-ft	105 500		83 000	
	kNm	143,0		112,5	
80% Torsional Yield	lbf-ft	84 400		66 400	
	kNm	114,4		90,0	

CONNECTIONS DATA

Connection type				XT-57	
Material grade				120 ksi	
Hardbanding				TCS Titanium	
OD x ID	inch	7,000	4,250	6,762	4,250
B.S.R.	x : 1	NA		NA	
Tensile yield tooljoint	lbf	1 200 500		1 200 500	
	kN	5 340		5 340	
Torsional yield tooljoint	lbf-ft	94 300		72 100	
	kNm	127,9		97,8	
Make up torque (Rec.)	lbf-ft	56 600		50 300	
	kNm	76,7		68,2	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio	=> 0.80	0,89		1,14	
Drift diameter	inch		4,125		
Type of elevator shoulder			18°		
Burst pressure	psi	14 500		13 270	
	Mpa	100		91	
Collapse pressure	psi	10 800		6 200	
	MPa	74		43	
Adjusted weight	lbs/ft		27,9		
	kg/mtr		41,5		
Approx weight each joint	lbs		890		
	kg		404		
Capacity	gal/ft		1,04		
	ltr/mtr		12,92		
Open end displacement	gal/ft		0,43		
	ltr/mtr		5,34		
Closed end displacement	gal/ft		1,47		
	ltr/mtr		18,26		
Built In Length (shoulder to shoulder)	ft		31,90		
	mtr.		9,72		

Calculated using nominal OD & ID. Safety & Dope friction factor used: 1.0

Values herein is meant as guidelines only. Odfjell will not be held liable for any damage or injuries !

<http://www.ows.no/Legal-Notice>

Docs. # 1059777

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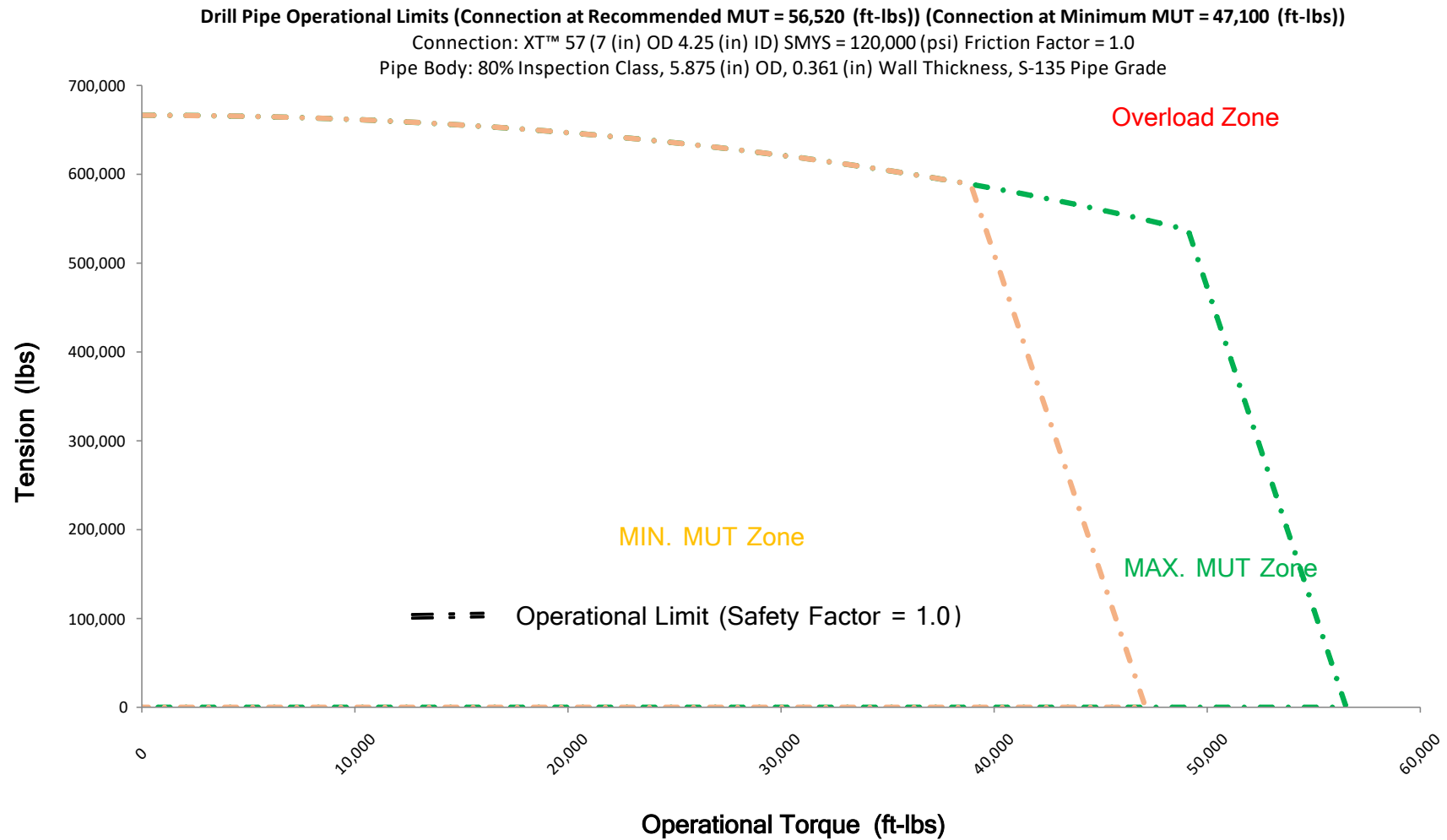


ODFJELL WELL SERVICES

A PART OF ODFJELL DRILLING

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-DP-5785	716	OWS-1250 TO OWS-1966

3/24/2021

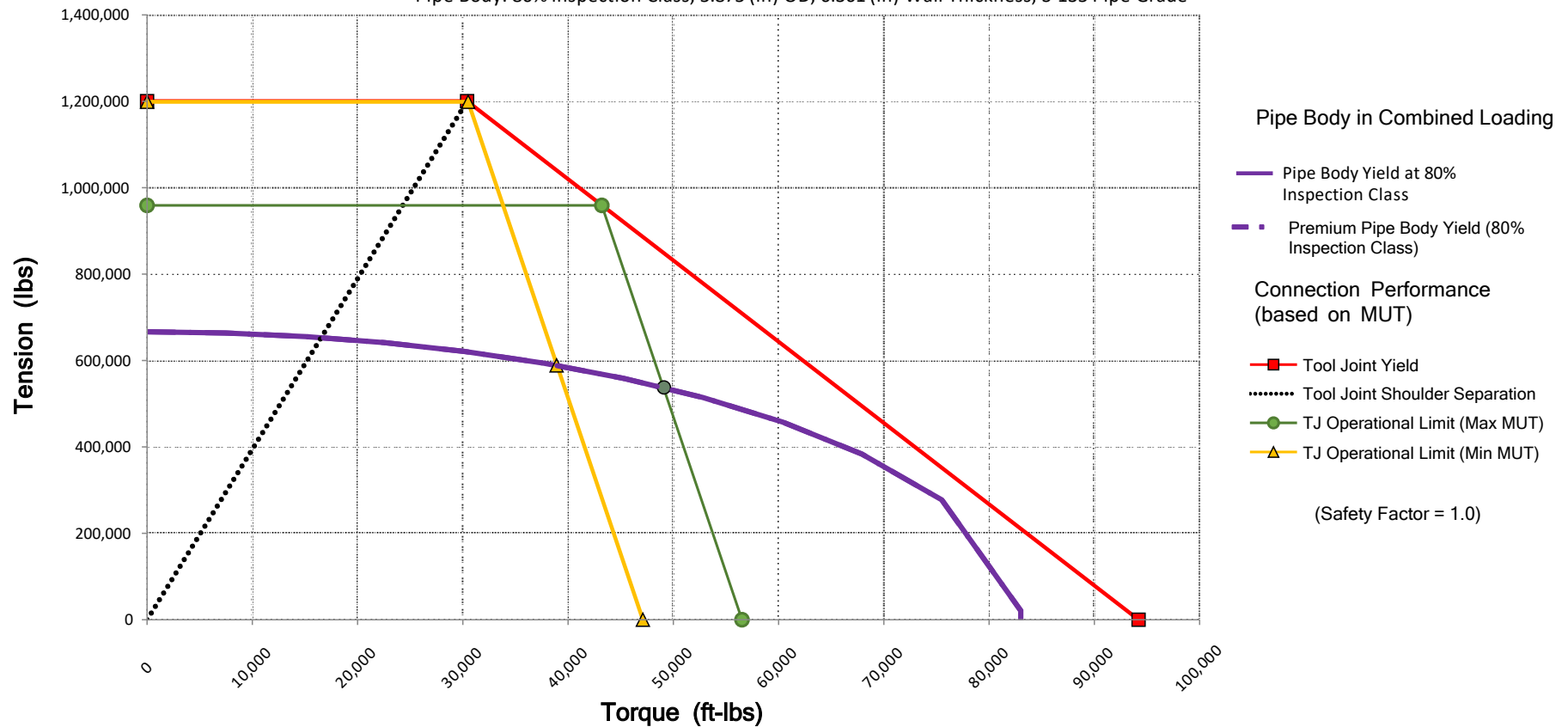


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Torque-Tension Graph

Connection: XT™ 57 (7 (in) OD 4.25 (in) ID) SMYS = 120,000 (psi) Friction Factor = 1.0
Pipe Body: 80% Inspection Class, 5.875 (in) OD, 0.361 (in) Wall Thickness, S-135 Pipe Grade



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Drill Pipe Performance Sheet

3/24/2021

Combined Loading for Drill Pipe

Connection: XT™ 57 7.0" x 4.25" (120 KSI SMYS) Friction Factor: 1.0

Pipe: 5.875" OD 0.361" Wall Thickness S135 80% Inspection Class

At Max MUT (56500 ft-lbs)		At Min MUT (47100 ft-lbs)	
Operational Torque(ft-lbs)	Assembly Max Tension(lbs)	Operational Torque(ft-lbs)	Assembly Max Tension(lbs)
0	666500	0	666500
2600	666200	2000	666300
5200	665200	4100	665700
7700	663700	6100	664700
10300	661400	8200	663300
12900	658400	10200	661500
15500	654800	12300	659200
18100	650500	14300	656600
20700	645500	16400	653400
23200	640000	18400	650000
25800	633600	20500	645900
28400	626300	22500	641600
31000	618400	24600	636600
33600	609500	26600	631400
36200	599900	28700	625500
38700	589700	30700	619300
41300	578300	32800	612300
43900	565800	34800	605200
46500	552200	36900	597100
49100	537500	38900	588900

The Technical information contained herein, including the product performance sheet and other attached documents, is for reference only and should not be considered as a recommendation. The user is fully responsible for the accuracy and suitability of use of the technical information. NOV Grant Prideco 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. The information provided for various inspection classes and for various wear conditions (remaining body wall) is for information only and does not represent or imply acceptable operating limits. It is the responsibility of the customer and the end user to determine the appropriate performance ratings, acceptable use of the product, maintain safe operating 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 DS, Section DS-16 of the drilling manual, it is recommended that drilling torque should not exceed 80% of MUT.

Connection Wear Table

Connection: XT™ 57 7.0" x 4.25" (120 KSI SMYS) Friction Factor: 1.0

Tool Joint OD (in)	Max MUT(ft-lbs)	Min MUT(ft-lbs)
7.0	56500	47100
6.96	56500	47100
6.921	56200	46800
6.881	54700	45600
6.841	53200	44300
6.801	51700	43100
6.762	50300	41900
6.722	48800	40700
6.682	47400	39500
6.642	45900	38300
6.603	44600	37100
6.563	43200	36000

Elevator Capacity

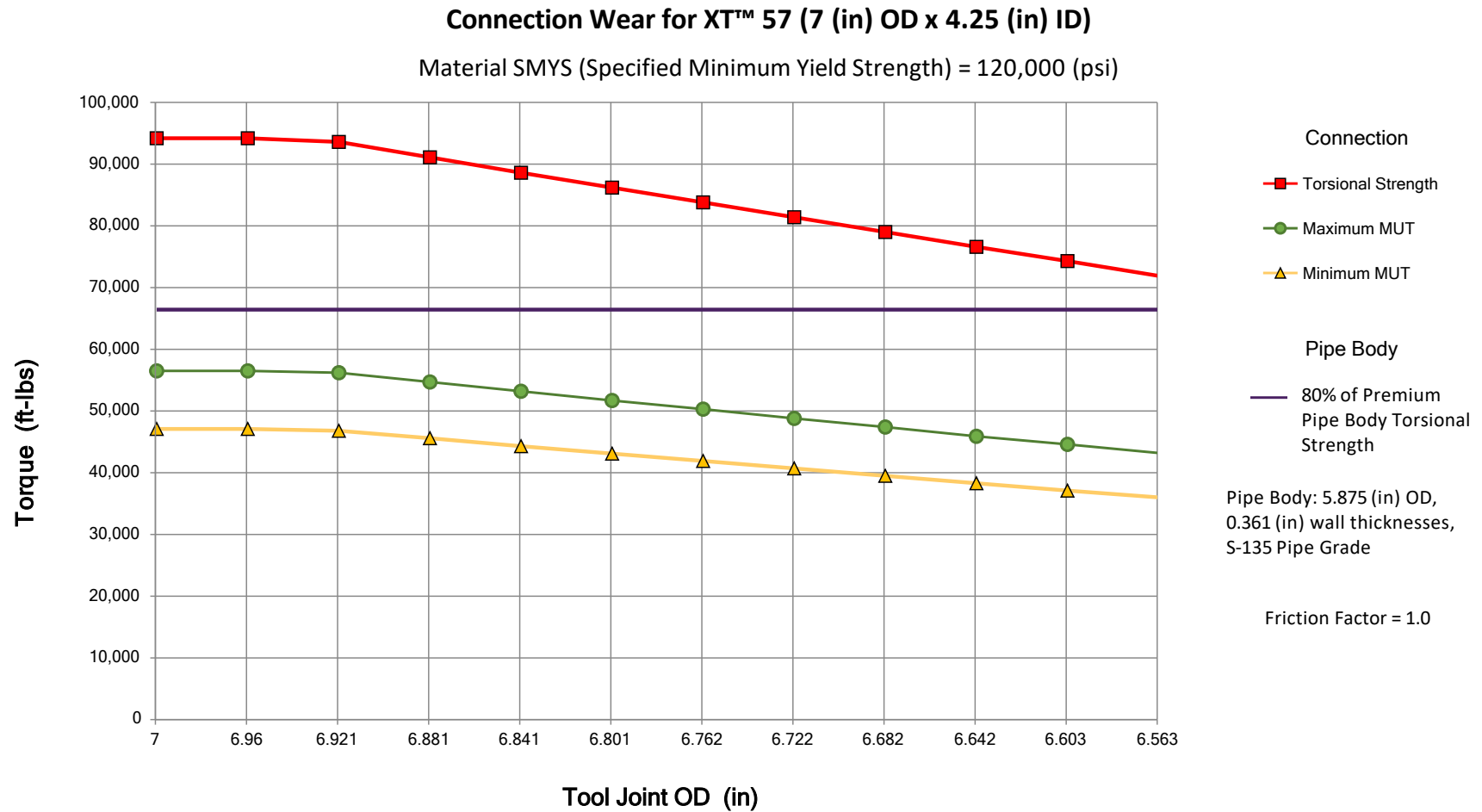
Elevator Bore Diameter: 6.125" Elevator SMYS: 110,100 psi Box Taper Angle: 18 deg

Connection: XT™ 57 5.875" 0.361" wall IEU S135

Tool Joint OD (in.)	Elevator Hoist Capacity (lbs)	
	No Wear	1/32" Wear Factor
7.1875	1223100	1189900
7.131	1153200	1120000
7.074	1083100	1050000
7.017	1013700	980500
6.96	944800	911600
6.904	877700	844500
6.847	809900	776700
6.79	742700	709500
6.733	676000	642800
6.677	611100	577900
6.62	545500	512300
6.563	480600	447400

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