

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: DP-5-DPM-DS-50

5" OD Drill Pipe, S-135, DPM DS-50 Conn's.

New

Premium

80% remaining Body Wall

DESCRIPTION

Type IEU, 19.50 #
 Range 2
 Conventional=welded T-J. / Integral=Monoblock Conventional

TUBE DATA

Material grade	S-135				
Internal plastic coating	DJ-207				
Tube body OD x ID	inch	5,000	4,276	4,855	4,276
Wall thickness, nominal	inch	0,362		0,290	
Cross Sectional Area	inch ²	5,275		4,152	
Polar Sectional Modulus	inch ³	11,415		8,953	
Tensile yield pipe	lbf	712 070		560 764	
	kN	3 167		2 494	
Torsional yield pipe	lbf-ft	74 100		58 114	
	kNm	100,5		78,8	
80% Torsional Yield	lbf-ft	59 280		46 491	
	kNm	80,4		63,0	

CONNECTION DATA

Connection type	DPM DS-50				
Material grade	130ksi				
Hardbanding	OTW13CF / TCS Titanium				
OD x ID	inch	6,625	3,250	6,094	3,250
B.S.R.	x : 1	NA		NA	
Tensile yield tooljoint	lbf	1 354 200		1 354 200	
	kN	6 024		6 024	
Torsional yield tooljoint	lbf-ft	78 328		62 232	
	kNm	106,2		84,4	
Max make-up torque (ref. page 4 for connection wear table)	lbf-ft	54800		37 300	
	kNm	74,3		59,1	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio Drift diameter	=> 0.80	1,06		1,35	
Type of elevator shoulder:		18°			
Burst pressure	psi	17 105		15 638	
	Mpa	118		108	
Collapse pressure	psi	15 672		10 029	
	MPa	108		69	
Adjusted weight	lbs/ft	24,9		24,9	
	kg/mtr	37,1		37,1	
Approx weight each joint	lbs	786		786	
	kg	356		356	
Capacity	gal/ft	0,71		0,71	
	ltr/mtr	8,78		8,78	
Open end displacement	gal/ft	0,38		0,38	
	ltr/mtr	4,73		4,73	
Closed end displacement	gal/ft	1,09		1,09	
	ltr/mtr	13,51		13,51	
Built In Length (shoulder to shoulder)	ft	31,50		31,50	
	mtr	9,60		9,60	

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 !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-DP-5-DS50-01	508	OWS6000 TO OWS6507
OWS-DP-5-DS50-01	477	OWS6508 TO OWS6984
OWS-DP-5-DS50-01	520	OWS6985 TO OWS7504
OWS-DP-5-DS50-01	635	OWS7506 TO OWS8140
OWS-DP-5-DS50-01	365	OWS8141 TO OWS8505

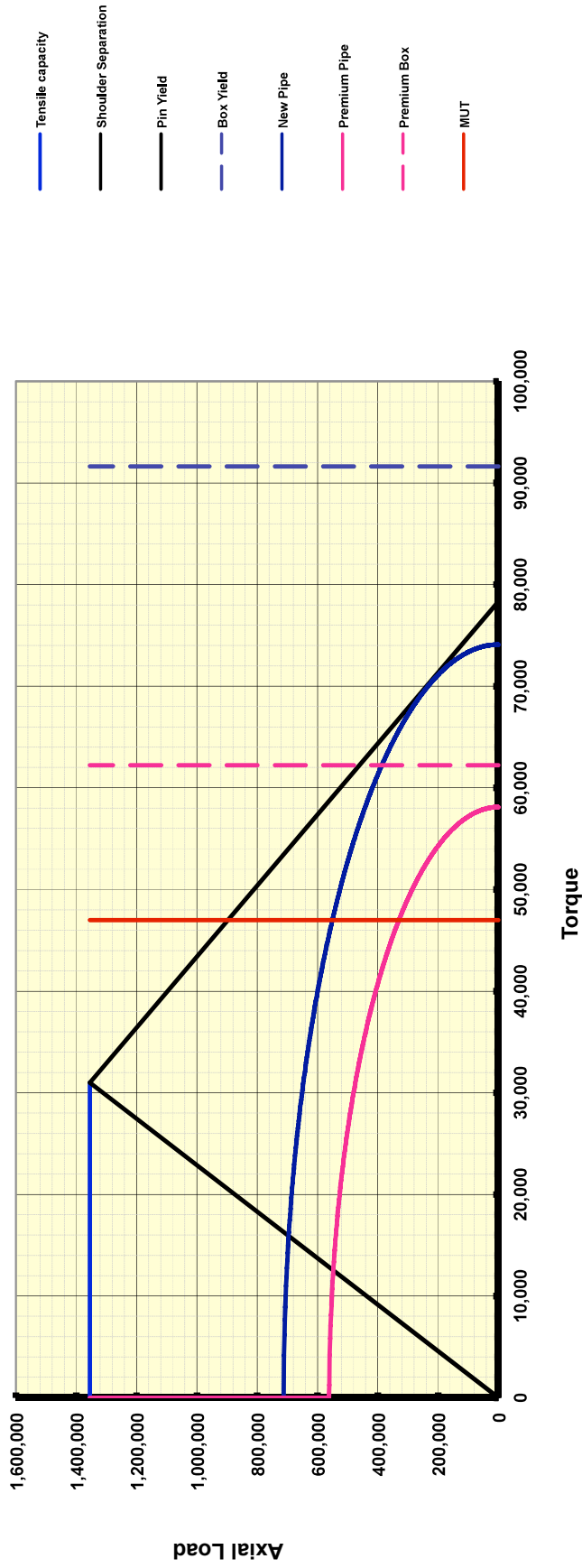


DRILL PIPE COMBINED LOAD CURVE

IMPERIAL UNIT

Pipe Size & Weight: 5 19.50 lb/ft IEU
Pipe Grade: S135
Range: 2
Tool Joint: 6.625 X 3.25 DPM-DS50

Make-up Torque Then Tension



Dataset for Reference Only

All new and premium properties are calculated based on nominal in accordance to API. API recommends a torsional ratio of 0.8 or greater. The use of the information is at reader's discretion and no warranty is implied or expressed by DP-Master with the use of information contained herein. The information in this publication is subjected to change without notice, please contact DP-Master for the latest publication. Make-up torque values are calculated based on thread compound friction factor of 1.00.

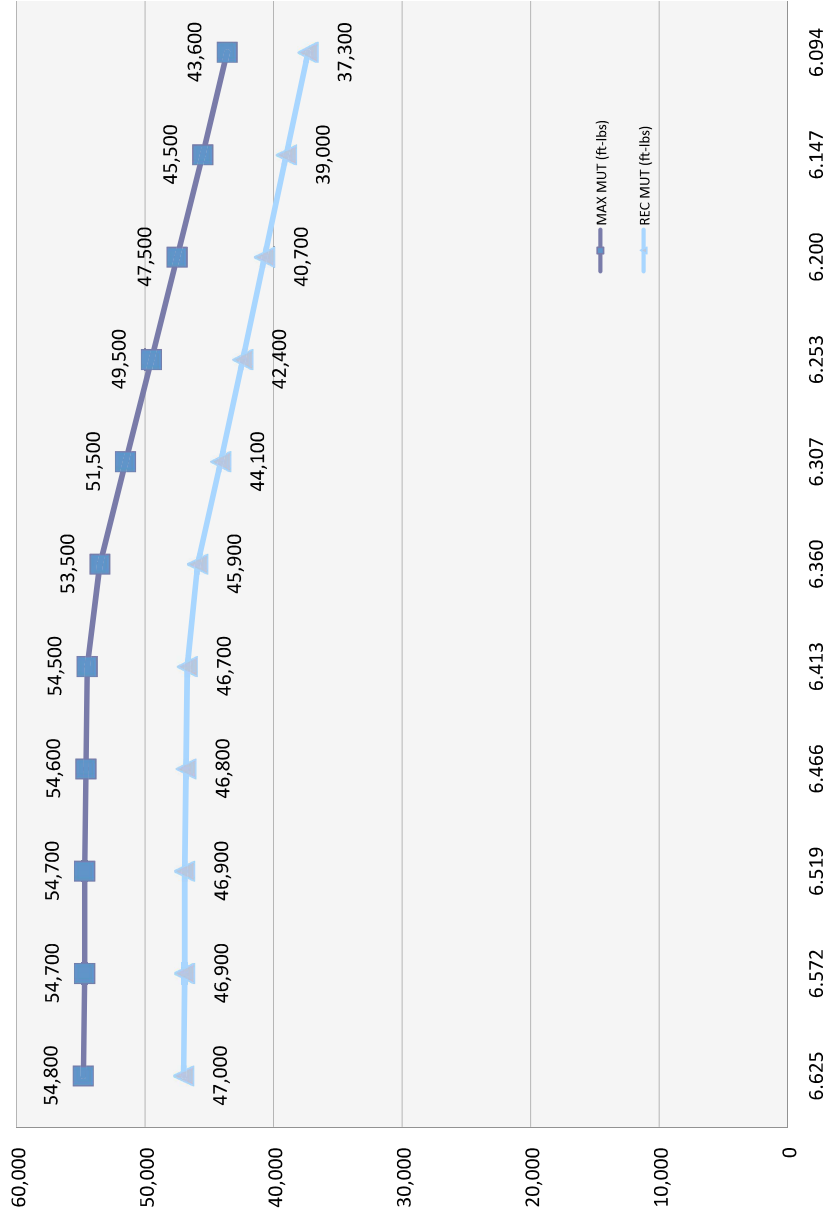


CONNECTION WEAR CURVE & TABLE

IMPERIAL UNIT

Pipe Size & Weight: 5 19.50 lb/ft IEU
Pipe Grade: S135
Range: 2
Tool Joint: 6.625 X 3.25 DPM-DS50

Connection Wear Curve



Connection Wear Table

TJ OD (in)	MAX MUT (ft-lbs)	REC MUT (ft-lbs)
6.625	54,800	47,000
6.572	54,700	46,900
6.519	54,700	46,900
6.466	54,600	46,800
6.413	54,500	46,700
6.360	53,500	45,900
6.307	51,500	44,100
6.253	49,500	42,400
6.200	47,500	40,700
6.147	45,500	39,000
6.094	43,600	37,300

Datasheet for Reference Only

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