

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-11

TECHNICAL SPECIFICATIONS

5" OD Heavy-Weight Drill Pipe, 4145, NC-50 DSTJ Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type AISI-4145H, 42.49#
 Range 2
 Conventional=welded T-J. / Integral=Monoblock Integral

TUBE DATA

Material grade		AISI-4145H (110 ksi)			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	5,000	3,000	4,600	3,000
Wall thickness, nominal	inch	1,000		0,800	
Cross Sectional Area	inch ²	12,566		9,550	
Polar Sectional Modulus	inch ³	21,363		15,654	
Tensile yield pipe	lbf	1 382 300		1 050 500	
	kN	6 149		4 673	
Torsional yield pipe	lbf-ft	113 000		82 800	
	kNm	153,2		112,3	
80% Torsional Yield	lbf-ft	90 400		66 240	
	kNm	122,6		89,8	

CONNECTIONS DATA

Connection type		NC-50 DSTJ			
Stress Relief Grooves		NA			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnco-300XT			
OD x ID	inch	6,625	3,000	6,313	3,000
B.S.R.	x : 1	2,28		1,85	
Tensile yield tooljoint	lbf	1 280 600		1 061 800	
	kN	5 696		4 723	
Torsional yield tooljoint	lbf-ft	67 930		57 360	
	kNm	92,1		77,8	
Make up torque (Max.)	lbf-ft	47 500		40 200	
	kNm	64,4		54,5	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,60		0,82
Drift diameter	inch		2,875	
Type of elevator shoulder			18°	
Burst pressure	psi	38 500		35 200
	Mpa	265		243
Collapse pressure	psi	35 200		31 610
	MPa	243		218
Adjusted weight	lbs/ft		51,64	
	kg/mtr		76,8	
Approx weight each joint	lbs		1 601	
	kg		726	
Capacity	gal/ft		0,369	
	ltr/mtr		4,58	
Open end displacement	gal/ft		0,80	
	ltr/mtr		9,94	
Closed end displacement	gal/ft		1,17	
	ltr/mtr		14,52	
Built In Length (shoulder to shoulder)	ft		31,0	
	mtr.		9,45	

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 !

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Docs. # 1085236

Frb - 12.12.2014



ODFJELL WELL SERVICES

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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-510-DSTJ	30	OWS-11 to OWS-40
OWS-HWDP-521-DSTJ	48	OWS-2614 to OWS-2662
OWS-HWDP-532-DSTJ	50	OWS-300 to OWS-349