

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-10

TECHNICAL SPECIFICATIONS

5" OD Heavy-Weight Drill Pipe, 4145, NC-50 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			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnc-300XT			
OD x ID	inch	6,500	3,000	6,313	3,000
B.S.R.	x : 1	2,10		1,85	
Tensile yield tooljoint	lbf	1 139 800		1 062 000	
	kN	5 070		4 724	
Torsional yield tooljoint	lbf-ft	46 900		43 400	
	kNm	63,6		58,8	
Make up torque (Max.)	lbf-ft	29 600		24 600	
	kNm	40,1		33,4	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,42		0,57
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		50,0	
	kg/mtr		74,4	
Approx weight each joint	lbs		1 550	
	kg		703	
Capacity	gal/ft		0,369	
	ltr/mtr		4,58	
Open end displacement	gal/ft		0,78	
	ltr/mtr		9,69	
Closed end displacement	gal/ft		1,15	
	ltr/mtr		14,27	
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 !

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

Docs. # 1085211

Frb - 12.12.2014



ODFJELL WELL SERVICES

A PART OF ODFJELL DRILLING

String number:	Joints:	Individual serial numbers:			
OWS-HWDP-517	15	OWS-511570	511608	511652	511652
		511677	511732	511763	511790
		511830	511840	511842	511843
		511844	512102	512280	610182