

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-10

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

New

Premium

80% remaining Body Wall

DESCRIPTION

Type

Range

Conventional=welded T-J. / Integral=Monoblock

AISI-4145H, 42.49#

2

Conventional

TUBE DATA

Material grade		AISI-4145M (110 ksi)			
Internal plastic coating		TK-34P/TC-2000			
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

CONNECTION DATA

Connection type		NC-50			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnco-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 Maximum	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	
	litr/mtr			4,58	
Open end displacement	gal/ft			0,78	
	litr/mtr			9,69	
Closed end displacement	gal/ft			1,15	
	litr/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 !

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