

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-12

TECHNICAL SPECIFICATIONS

5" OD Heavy-Weight Drill Pipe, 4145, NC-50 Vam Eis 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 Vam Eis			
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	78 150		68 550	
	kNm	106,0		92,9	
Make up torque (Max.)	lbf-ft	44 500		39 100	
	kNm	60,3		53,0	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,69		0,94	
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 !

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

Docs. # 1085268

Frb - 12.12.2014



ODFJELL WELL SERVICES

A PART OF ODFJELL DRILLING

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-520-EIS	30	OWS-2584 to OWS-2613