

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-5-12

5-1/2" OD Heavy-Weight Drill Pipe, 4145, 5-1/2" FH Vam Eis Conn's. New

Premium

DESCRIPTION

Type
Range
Conventional=welded T-J. / Integral=Monoblock

80% remaining Body Wall

AISI-4145, 56.44#

2

Integral

TUBE DATA

Material grade		AISI-4145H (110 ksi)			
Internal plastic coating		TK-34P / TC-2000			
Tube body OD x ID	inch	5,500	3,000	5,000	3,000
Wall thickness, nominal	inch		1,250		1,000
Cross Sectional Area	inch ²		16,690		12,566
Polar Sectional Modulus	inch ³		29,776		21,363
Tensile yield pipe	lbf		1 835 900		1 382 300
	kN		8 166		6 149
Torsional yield pipe	lbf-ft		157 500		113 000
	kNm		213,5		153,2
80% Torsional Yield	lbf-ft		126 000		90 400
	kNm		170,8		122,6

CONNECTION DATA

Connection type		5-1/2" FH. Vam Eis			
Stress Relief Grooves		NA			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnco-300XT / TCS-Titanium			
OD x ID	inch	7,250	3,000	6,719	3,000
B.S.R.	x : 1		2,08		1,49
Tensile yield tooljoint	lbf		1 591 000		950 200
	kN		7 072		4 227
Torsional yield tooljoint	lbf-ft		111 160		81 340
	kNm		150,7		110,3
Make up torque Maximum	lbf-ft		63 400		46 400
	kNm		86,0		62,9

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio			0,71		0,98
Drift diameter	inch			2,875	
Type of elevator shoulder:				18°	
Burst pressure	psi		43 750		40 000
	Mpa		302		276
Collapse pressure	psi		38 640		35 200
	MPa		266		243
Adjusted weight	lbs/ft			63,44	
	kg/mtr			94,4	
Approx weight each joint	lbs			2 855	
	kg			1 295	
Capacity	gal/ft			0,368	
	ltr/mtr			4,57	
Open end displacement	gal/ft			0,97	
	ltr/mtr			12,05	
Closed end displacement	gal/ft			1,34	
	ltr/mtr			16,62	
Built In Length (shoulder to shoulder)	ft			45,0	
	mtr			13,72	

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-51210	8	9073-63440 9080-68950 9074-69004 9073-69042	9069-63510 9079-69050 9076-69037 9077-69043