

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5.5-02

TECHNICAL SPECIFICATIONS

5-1/2" OD Heavy-Weight Drill Pipe, 4140, 5-1/2" FH Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type

AISI-4140H, 47.81#

Range

2

Conventional=welded T-J. / Integral=Monoblock

Conventional

TUBE DATA

Material grade		AISI-4140H (120 ksi)			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	5,500	3,500	5,100	3,500
Wall thickness, nominal	inch	1,000		0,800	
Cross Sectional Area	inch ²	14,137		10,807	
Polar Sectional Modulus	inch ³	27,310		20,269	
Tensile yield pipe	lbf	1 696 500		1 296 800	
	kN	7 546		5 768	
Torsional yield pipe	lbf-ft	157 590		116 950	
	kNm	213,7		158,6	
80% Torsional Yield	lbf-ft	126 072		93 560	
	kNm	170,9		126,9	

CONNECTIONS DATA

Connection type		5-1/2" FH.			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4140H (120 ksi)			
Hardbanding		Arnco-300XT			
OD x ID	inch	7,000	3,500	6,719	3,500
B.S.R.	x : 1	1,94		1,60	
Tensile yield tooljoint	lbf	1 399 900		1 036 600	
	kN	6 227		4 611	
Torsional yield tooljoint	lbf-ft	62 900		46 100	
	kNm	85,3		62,5	
Make up torque (Max.)	lbf-ft	37 700		27 700	
	kNm	51,1		37,6	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,40		0,54	
Drift diameter	inch		3,375		
Type of elevator shoulder			18°		
Burst pressure	psi	38 180		34 910	
	Mpa	263		241	
Collapse pressure	psi	35 700		31 740	
	MPa	246		219	
Adjusted weight	lbs/ft		55,60		
	kg/mtr		82,7		
Approx weight each joint	lbs		1 724		
	kg		782		
Capacity	gal/ft		0,501		
	ltr/mtr		6,22		
Open end displacement	gal/ft		0,85		
	ltr/mtr		10,56		
Closed end displacement	gal/ft		1,35		
	ltr/mtr		16,78		
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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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-51217	200	OWS-107037 to OWS-107236