

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-5-02

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

Premium

DESCRIPTION

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

80% remaining Body Wall
AISI-1340, 47.81#
2
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	

CONNECTION DATA

Connection type		5-1/2" FH.			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4145H (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 Maximum	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 !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-51217	200	OWS-107037 to OWS-107236