

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-03

TECHNICAL SPECIFICATIONS

5" OD Heavy-Weight Drill Pipe, 4140, NC-50 Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type

AISI-4140H, 42.49#

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	5,000	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	1 508 000		1 146 100	
	kN	6 708		5 098	
Torsional yield pipe	lbf-ft	123 270		90 330	
	kNm	167,1		122,5	
80% Torsional Yield	lbf-ft	98 616		72 264	
	kNm	133,7		98,0	

CONNECTIONS DATA

Connection type		NC-50			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4140H (120 ksi)			
Hardbanding		OTW-12			
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	1 243 500		1 158 900	
	kN	5 531		5 155	
Torsional yield tooljoint	lbf-ft	51 500		47 300	
	kNm	69,8		64,1	
Make up torque (Max.)	lbf-ft	34 600		28 400	
	kNm	46,9		38,5	

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	42 000		38 400	
	Mpa	290		265	
Collapse pressure	psi	38 400		34 480	
	MPa	265		238	
Adjusted weight	lbs/ft		51,2		
	kg/mtr		76,2		
Approx weight each joint	lbs		1 587		
	kg		720		
Capacity	gal/ft		0,369		
	ltr/mtr		4,58		
Open end displacement	gal/ft		0,82		
	ltr/mtr		10,18		
Closed end displacement	gal/ft		1,19		
	ltr/mtr		14,77		
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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ODFJELL WELL SERVICES

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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-509	15	92634 to 92648
OWS-HWDP-512	35	OWS-98405 to OWS-98439
OWS-HWDP-515	25	101759 to 101783