

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-3.5-06

TECHNICAL SPECIFICATIONS

3-1/2" OD Heavy-Weight Drill Pipe, 4145, NC-38 Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type AISI-4145H, 19.09#
Range 2
Conventional=welded T-J. / Integral=Monoblock Integral

TUBE DATA

Material grade		AISI-4145H (110 ksi)			
Internal plastic coating		NA			
Tube body OD x ID	inch	3,500	2,250	3,250	2,250
Wall thickness, nominal	inch	0,625		0,500	
Cross Sectional Area	inch ²	5,645		4,320	
Polar Sectional Modulus	inch ³	6,981		5,192	
Tensile yield pipe	lbf	621 000		475 200	
	<i>kN</i>	<i>2 762</i>		<i>2 114</i>	
Torsional yield pipe	lbf-ft	36 920		27 460	
	<i>kNm</i>	<i>50,1</i>		<i>37,2</i>	
80% Torsional Yield	lbf-ft	29 536		21 968	
	<i>kNm</i>	<i>40,0</i>		<i>29,8</i>	

CONNECTIONS DATA

Connection type		NC-38			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnco-300XT/TCS-Titanium			
OD x ID	inch	5,000	2,250	4,719	2,250
B.S.R.	x : 1	2,38		1,86	
Tensile yield tooljoint	lbf	607 000		530 900	
	<i>kN</i>	<i>2 700</i>		<i>2 362</i>	
Torsional yield tooljoint	lbf-ft	19 400		16 750	
	<i>kNm</i>	<i>26,3</i>		<i>22,7</i>	
Make up torque (Max.)	lbf-ft	12 900		9 500	
	<i>kNm</i>	<i>17,5</i>		<i>12,9</i>	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,53		0,71	
Drift diameter	inch		2,125		
Type of elevator shoulder			18°		
Burst pressure	psi	34 380		31 430	
	<i>Mpa</i>	<i>237</i>		<i>217</i>	
Collapse pressure	psi	32 270		28 640	
	<i>MPa</i>	<i>222</i>		<i>197</i>	
Adjusted weight	lbs/ft		25,9		
	<i>kg/mtr</i>		<i>38,5</i>		
Approx weight each joint	lbs		803		
	<i>kg</i>		<i>364</i>		
Capacity	gal/ft		0,208		
	<i>ltr/mtr</i>		<i>2,58</i>		
Open end displacement	gal/ft		0,40		
	<i>ltr/mtr</i>		<i>4,97</i>		
Closed end displacement	gal/ft		0,61		
	<i>ltr/mtr</i>		<i>7,55</i>		
Built In Length (shoulder to shoulder)	ft		31,0		
	<i>mtr.</i>		<i>9,45</i>		

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-3124	9	S38508-1 to S38508-9
OWS-HWDP-3129	6	OWS-0809778 0809781 0809797 0809799 0809753 0809770
OWS-HWDP-31211	50	OWS-101 to OWS-150
OWS-HWDP-31212	52	OWS-151 to OWS-202
OWS-HWDP-31213	50	OWS-210 to OWS-259