

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-3.5-02

TECHNICAL SPECIFICATIONS

3-1/2" OD Heavy-Weight Drill Pipe, 4140, NC-38 Vam Eis Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type AISI-4140H, 19.09#
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	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	677 400		518 400	
	<i>kN</i>	<i>3 013</i>		<i>2 306</i>	
Torsional yield pipe	lbf-ft	40 280		29 960	
	<i>kNm</i>	<i>54,6</i>		<i>40,6</i>	
80% Torsional Yield	lbf-ft	32 224		23 968	
	<i>kNm</i>	<i>43,7</i>		<i>32,5</i>	

CONNECTIONS DATA

Connection type		NC-38 Vam Eis			
Stress Relief Grooves		NA			
Material grade		AISI-4140H (120 ksi)			
Hardbanding		Arnco-300XT			
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	776 500		579 100	
	<i>kN</i>	<i>3 454</i>		<i>2 576</i>	
Torsional yield tooljoint	lbf-ft	35 250		28 660	
	<i>kNm</i>	<i>47,8</i>		<i>38,9</i>	
Make up torque (Max.)	lbf-ft	20 100		16 300	
	<i>kNm</i>	<i>27,3</i>		<i>22,1</i>	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,88		1,18	
Drift diameter	inch		2,125		
Type of elevator shoulder			18°		
Burst pressure	psi	37 500		34 290	
	<i>Mpa</i>	<i>259</i>		<i>236</i>	
Collapse pressure	psi	35 200		31 240	
	<i>MPa</i>	<i>243</i>		<i>215</i>	
Adjusted weight	lbs/ft		26,2		
	<i>kg/mtr</i>		<i>39,0</i>		
Approx weight each joint	lbs		812		
	<i>kg</i>		<i>368</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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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-3121-EIS	20	OWS-94136 to OWS-94155