

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-4-02

4" OD Heavy-Weight Drill Pipe, 4140, NC-40 Vam Eis Conn's. New

Premium

DESCRIPTION

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

80% remaining Body Wall
AISI-4140H, 29.05#
2
Conventional

TUBE DATA

Material grade		AISI-4140H (120 ksi)			
Internal plastic coating		NA			
Tube body OD x ID	inch	4,000	2,250	3,650	2,250
Wall thickness, nominal	inch	0,875		0,700	
Cross Sectional Area	inch ²	8,590		6,487	
Polar Sectional Modulus	inch ³	11,308		8,169	
Tensile yield pipe	lbf <i>kN</i>	1 030 800 <i>4 585</i>		778 500 <i>3 463</i>	
Torsional yield pipe	lbf-ft <i>kNm</i>	65 250 <i>88,5</i>		47 140 <i>63,9</i>	
80% Torsional Yield	lbf-ft <i>kNm</i>	52 200 <i>70,8</i>		37 712 <i>51,1</i>	

CONNECTION DATA

Connection type		NC-40 Vam Eis			
Stress Relief Grooves		NA			
Material grade		AISI-4140H (120 ksi)			
Hardbanding		Arnc0-300XT			
OD x ID	inch	5,000	2,250	4,859	2,250
B.S.R.	x : 1	1,74		1,53	
Tensile yield tooljoint	lbf <i>kN</i>	628 500 <i>2 796</i>		497 500 <i>2 213</i>	
Torsional yield tooljoint	lbf-ft <i>kNm</i>	34 680 <i>47,0</i>		30 200 <i>40,9</i>	
Make up torque Maximum	lbf-ft <i>kNm</i>	19 800 <i>26,8</i>		17 200 <i>23,3</i>	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio		0,53		0,74	
Drift diameter	inch		2,125		
Type of elevator shoulder:			18°		
Burst pressure	psi <i>Mpa</i>	45 940 <i>317</i>		42 000 <i>290</i>	
Collapse pressure	psi <i>MPa</i>	41 020 <i>283</i>		37 200 <i>256</i>	
Adjusted weight	lbs/ft <i>kg/mtr</i>		33,01 <i>49,1</i>		
Approx weight each joint	lbs <i>kg</i>		1 023 <i>464</i>		
Capacity	gal/ft <i>ltr/mtr</i>		0,208 <i>2,58</i>		
Open end displacement	gal/ft <i>ltr/mtr</i>		0,52 <i>6,46</i>		
Closed end displacement	gal/ft <i>ltr/mtr</i>		0,73 <i>9,04</i>		
Built In Length (shoulder to shoulder)	ft <i>mtr</i>		31,0 <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 !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-401-EIS	36	OWS-112949 to OWS-112984