

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-4-02

TECHNICAL SPECIFICATIONS

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

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type AISI-4140, 29.05#
 Range 2
 Conventional=welded T-J. / Integral=Monoblock 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	1 030 800		778 500	
	kN	4 585		3 463	
Torsional yield pipe	lbf-ft	65 250		47 140	
	kNm	88,5		63,9	
80% Torsional Yield	lbf-ft	52 200		37 712	
	kNm	70,8		51,1	

CONNECTIONS DATA

Connection type		NC-40 Vam Eis			
Stress Relief Grooves		NA			
Material grade		AISI-4140H (120 ksi)			
Hardbanding		Arnco-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	628 500		497 500	
	kN	2 796		2 213	
Torsional yield tooljoint	lbf-ft	34 680		30 200	
	kNm	47,0		40,9	
Make up torque (Max.)	lbf-ft	19 800		17 200	
	kNm	26,8		23,3	

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	45 940		42 000
	Mpa	317		290
Collapse pressure	psi	41 020		37 200
	MPa	283		256
Adjusted weight	lbs/ft		33,01	
	kg/mtr		49,1	
Approx weight each joint	lbs		1 023	
	kg		464	
Capacity	gal/ft		0,208	
	ltr/mtr		2,58	
Open end displacement	gal/ft		0,52	
	ltr/mtr		6,46	
Closed end displacement	gal/ft		0,73	
	ltr/mtr		9,04	
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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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-401-EIS	36	OWS-112949 to OWS-112984