

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-06

TECHNICAL SPECIFICATIONS

5" OD Heavy-Weight Drill Pipe, 4140, NC-50 Vam Eis 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-4140 (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 Vam Eis				
Stress Relief Grooves	NA				
Material grade	AISI-4140H (120 ksi)				
Hardbanding	Titanium				
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	1 397 000		1 158 300	
	kN	6 214		5 152	
Torsional yield tooljoint	lbf-ft	85 260		74 780	
	kNm	115,6		101,4	
Make up torque (Max.)	lbf-ft	48 600		42 600	
	kNm	65,9		57,8	

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,69	0,94
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	52,6	
	kg/mtr	78,3	
Approx weight each joint	lbs	1 631	
	kg	740	
Capacity	gal/ft	0,369	
	ltr/mtr	4,58	
Open end displacement	gal/ft	0,81	
	ltr/mtr	10,06	
Closed end displacement	gal/ft	1,18	
	ltr/mtr	14,64	
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-514-EIS	20	101784 to 101803 + OWS-30