

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-03

5" OD Heavy-Weight Drill Pipe, 4140, NC-50 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-4140H (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

CONNECTION DATA

Connection type		NC-50			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4140H (120 ksi)			
Hardbanding		OTW-12			
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		1 243 500		1 158 900
	kN		5 531		5 155
Torsional yield tooljoint	lbf-ft		51 500		47 300
	kNm		69,8		64,1
Make up torque Maximum	lbf-ft		34 600		28 400
	kNm		46,9		38,5

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio		0,42		0,57
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		51,2	
	kg/mtr		76,2	
Approx weight each joint	lbs		1 587	
	kg		720	
Capacity	gal/ft		0,369	
	ltr/mtr		4,58	
Open end displacement	gal/ft		0,82	
	ltr/mtr		10,18	
Closed end displacement	gal/ft		1,19	
	ltr/mtr		14,77	
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 !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-509	15	92634 to 92648
OWS-HWDP-512	35	OWS-98405 to OWS-98439
OWS-HWDP-515	25	101759 to 101783