

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-09

5" OD Heavy-Weight Drill Pipe, 4145, NC-50 Conn's.

New

Premium

DESCRIPTION

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

80% remaining Body Wall

AISI-4145H, 42.49#

2

Conventional

TUBE DATA

Material grade		AISI-4145M (110 ksi)			
Internal plastic coating		TK-34P/TC-2000			
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		1 382 300		1 050 500
	kN		6 149		4 673
Torsional yield pipe	lbf-ft		113 000		82 800
	kNm		153,2		112,3
80% Torsional Yield	lbf-ft		90 400		66 240
	kNm		122,6		89,8

CONNECTION DATA

Connection type		NC-50			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnco-300XT/TCS-Titanium			
OD x ID	inch	6,625	3,000	6,313	3,000
B.S.R.	x : 1		2,48		2,00
Tensile yield tooljoint	lbf		1 139 800		1 139 800
	kN		5 070		5 070
Torsional yield tooljoint	lbf-ft		47 200		43 400
	kNm		64,0		58,8
Make up torque Maximum	lbf-ft		30 100		24 600
	kNm		40,8		33,4

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		38 500		35 200
	Mpa		265		243
Collapse pressure	psi		35 200		31 610
	MPa		243		218
Adjusted weight	lbs/ft			51,64	
	kg/mtr			76,8	
Approx weight each joint	lbs			1 601	
	kg			726	
Capacity	gal/ft			0,369	
	litr/mtr			4,58	
Open end displacement	gal/ft			0,80	
	litr/mtr			9,94	
Closed end displacement	gal/ft			1,17	
	litr/mtr			14,52	
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-516	40	OWS-2469 to OWS-2508
OWS-HWDP-519	50	OWS-2534 to OWS-2585
OWS-HWDP-527	100	OWS-0803737 to OWS-0810047
OWS-HWDP-529	100	OWS-100 to OWS-199
OWS-HWDP-530	50	OWS-200 to OWS-249
OWS-HWDP-531	50	OWS-250 to OWS-299
OWS-HWDP-533	52	OWS-350 to OWS-401
OWS-HWDP-534	30	OWS-410 to OWS-439
OWS-HWDP-535	100	OWS-450 to OWS-549
OWS-HWDP-536	100	OWS-650 to OWS-749
OWS-HWDP-537	100	OWS-550 to OWS-649
OWS-HWDP-538	25	OWS-DAB-750 to OWS-DAB-774