

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-3.5-06

3-1/2" OD Heavy-Weight Drill Pipe, 4145, NC-38 Conn's.

New

Premium

80% remaining Body Wall

DESCRIPTION

Type

Range

Conventional=welded T-J. / Integral=Monoblock

AISI-4145H, 19.09#

2

Integral

TUBE DATA

Material grade	AISI-4145H (110 ksi)			
Internal plastic coating	NA			
Tube body OD x ID	inch	3,500	2,250	3,250
Wall thickness, nominal	inch	0,625		0,500
Cross Sectional Area	inch ²	5,645		4,320
Polar Sectional Modulus	inch ³	6,981		5,192
Tensile yield pipe	lbf	621 000		475 200
	kN	2 762		2 114
Torsional yield pipe	lbf-ft	36 920		27 460
	kNm	50,1		37,2
80% Torsional Yield	lbf-ft	29 536		21 968
	kNm	40,0		29,8

CONNECTION DATA

Connection type	NC-38			
Stress Relief Grooves	SRG / BB			
Material grade	AISI-4145H (110 ksi)			
Hardbanding	Arnco-300XT/TCS-Titanium			
OD x ID	inch	5,000	2,250	4,719
B.S.R.	x : 1	2,38		1,86
Tensile yield tooljoint	lbf	607 000		530 900
	kN	2 700		2 362
Torsional yield tooljoint	lbf-ft	19 400		16 750
	kNm	26,3		22,7
Make up torque Maximum	lbf-ft	12 900		9 500
	kNm	17,5		12,9

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio		0,53		0,71
Drift diameter	inch		2,125	
Type of elevator shoulder:			18°	
Burst pressure	psi	34 380		31 430
	Mpa	237		217
Collapse pressure	psi	32 270		28 640
	MPa	222		197
Adjusted weight	lbs/ft		25,9	
	kg/mtr		38,5	
Approx weight each joint	lbs		803	
	kg		364	
Capacity	gal/ft		0,208	
	ltr/mtr		2,58	
Open end displacement	gal/ft		0,40	
	ltr/mtr		4,97	
Closed end displacement	gal/ft		0,61	
	ltr/mtr		7,55	
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-3124	9	S38508-1 to S38508-9
OWS-HWDP-3129	6	OWS-0809753 0809770 0809778 0809781 0809797 0809799
OWS-HWDP-31211	50	OWS-101 to OWS-150
OWS-HWDP-31212	52	OWS-151 to OWS-202
OWS-HWDP-31213	50	OWS-210 to OWS-259