

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-3.5-07

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

New

Premium

80% remaining Body Wall

DESCRIPTION

Type

AISI-4145H, 19.09#

Range

2

Conventional=welded T-J. / Integral=Monoblock

Integral

TUBE DATA

Material grade		AISI-4145H (110 ksi)			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	3,500	2,250	3,250	2,250
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			
OD x ID	inch	4,750	2,250	4,719	2,250
B.S.R.	x : 1	1,92		1,86	
Tensile yield tooljoint	lbf	556 200		530 900	
	kN	2 474		2 362	
Torsional yield tooljoint	lbf-ft	17 580		16 750	
	kNm	23,8		22,7	
Make up torque Maximum	lbf-ft	10 000		9 500	
	kNm	13,6		12,9	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio		0,48		0,64	
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		24,6		
	kg/mtr		36,6		
Approx weight each joint	lbs		763		
	kg		346		
Capacity	gal/ft		0,208		
	ltr/mtr		2,58		
Open end displacement	gal/ft		0,38		
	ltr/mtr		4,72		
Closed end displacement	gal/ft		0,59		
	ltr/mtr		7,30		
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-3123	17	SSDP-5829 to SSDP-5845