

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-3.5-03

3-1/2" OD Heavy-Weight Drill Pipe, 4140, NC-38 Conn's.

New

Premium

80% remaining Body Wall

DESCRIPTION

Type

Range

Conventional=welded T-J. / Integral=Monoblock

AISI-4140H, 19.09#

2

Conventional

TUBE DATA

Material grade		AISI-4140H (120 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	677 400		518 400	
	kN	3 013		2 306	
Torsional yield pipe	lbf-ft	40 280		29 960	
	kNm	54,6		40,6	
80% Torsional Yield	lbf-ft	32 224		23 968	
	kNm	43,7		32,5	

CONNECTION DATA

Connection type		NC-38			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4140H (120 ksi)			
Hardbanding		Arnco-300XT			
OD x ID	inch	5,000	2,250	4,719	2,250
B.S.R.	x : 1	2,38		1,88	
Tensile yield tooljoint	lbf	662 300		579 100	
	kN	2 946		2 576	
Torsional yield tooljoint	lbf-ft	21 200		18 270	
	kNm	28,7		24,8	
Make up torque Maximum	lbf-ft	14 900		11 000	
	kNm	20,2		14,9	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio	=> 0.80	0,88		1,18	
Drift diameter	inch		2,125		
Type of elevator shoulder:			18°		
Burst pressure	psi	37 500		34 290	
	Mpa	259		236	
Collapse pressure	psi	35 200		31 240	
	MPa	243		215	
Adjusted weight	lbs/ft		26,2		
	kg/mtr		39,0		
Approx weight each joint	lbs		812		
	kg		368		
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-3122 (Convensional)	11	OWS-94156 to OWS-94166
OWS-HWDP-3122 (Integral)	9	OWS-94129 to OWS-94135 + OWS-94997 & OWS-94998
OWS-HWDP-3125 (Convensional)	36	OWS-112360 to OWS-112395