ODFJELL WELL SERVICES
A PART OF ODFJELL DRILLING

Equipment No's: Ref. Enclosed page **Spec. No.:** HWDP-3.5-03

TECHNICAL SPECIFICATIONS

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

		New		Premium	
				80% Remaining Body Wall	
DESCRIPTION					
Type		AISI-4140H, 19.09#			
Range		2			
Convensional=welded T-J. / Integral=Monoblock		Convensional/Integral			
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*	
CONNECTIONS 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 (Max.)	lbf-ft	14 900		11 000	
	kNm	*20,2*		*14,9*	
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	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 !
http://www.ows.no/Legal-Notice

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String number:	***Joints:***	***Individual serial numbers:***
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