

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5.5-09

TECHNICAL SPECIFICATIONS

5-1/2" OD Heavy-Weight Drill Pipe, 4145, 5-1/2" FH DSTJ Conn's.
New
Premium

80% Remaining Body Wall

DESCRIPTION

Type	AISI-4145, 47.81#
Range	2
Conventional=welded T-J. / Integral=Monoblock	Integral

TUBE DATA

Material grade		AISI-4145H (110 ksi)	
Internal plastic coating		TK-34P / TC-2000	
Tube body OD x ID	inch	5,500	3,500
Wall thickness, nominal	inch	1,000	0,800
Cross Sectional Area	inch ²	14,137	10,807
Polar Sectional Modulus	inch ³	27,310	20,269
Tensile yield pipe	lbf	1 555 100	1 188 800
	kN	6 917	5 288
Torsional yield pipe	lbf-ft	144 450	107 210
	kNm	195,8	145,4
80% Torsional Yield	lbf-ft	115 560	85 768
	kNm	156,7	116,3

CONNECTIONS DATA

Connection type		5-1/2" FH. DSTJ	
Stress Relief Grooves		NA	
Material grade		AISI-4145H (110 ksi)	
Hardbanding		Arnco-300XT / TCS Titanium	
OD x ID	inch	7,000	3,500
B.S.R.	x : 1	1,97	1,64
Tensile yield tooljoint	lbf	1 464 800	1 464 800
	kN	6 516	6 516
Torsional yield tooljoint	lbf-ft	74 760	57 850
	kNm	101,4	78,4
Make up torque (Max.)	lbf-ft	52 300	40 500
	kNm	70,9	54,9

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,52	0,70
Drift diameter	inch	3,375	
Type of elevator shoulder		18°	
Burst pressure	psi	35 000	32 000
	Mpa	241	221
Collapse pressure	psi	32 730	29 100
	MPa	226	201
Adjusted weight	lbs/ft	55,60	
	kg/mtr	82,7	
Approx weight each joint	lbs	1 724	
	kg	782	
Capacity	gal/ft	0,501	
	ltr/mtr	6,22	
Open end displacement	gal/ft	0,85	
	ltr/mtr	10,56	
Closed end displacement	gal/ft	1,35	
	ltr/mtr	16,78	
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 !

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ODFJELL WELL SERVICES

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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-5124	70	OS-512-08 to OS-512-159
OWS-HWDP-51213	5	90297 90298 90301 90303 90311
OWS-HWDP-51221	59	Between 15025 - 23825
OWS-HWDP-51224	30	Between 9100 - 9208