

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5-09

TECHNICAL SPECIFICATIONS

5" OD Heavy-Weight Drill Pipe, 4145, NC-50 Conn's.

New
Premium

80% Remaining Body Wall

DESCRIPTION

Type AISI-4145H, 42.49#
 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	5,000	3,000	4,600	3,000
Wall thickness, nominal	inch	1,000			0,800
Cross Sectional Area	inch ²	12,566			9,550
Polar Sectional Modulus	inch ³	21,363			15,654
Tensile yield pipe	lbf	1 382 300			1 050 500
	kN	6 149			4 673
Torsional yield pipe	lbf-ft	113 000			82 800
	kNm	153,2			112,3
80% Torsional Yield	lbf-ft	90 400			66 240
	kNm	122,6			89,8

CONNECTIONS DATA

Connection type		NC-50			
Stress Relief Grooves		SRG / BB			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		Arnco-300XT/TCS-Titanium			
OD x ID	inch	6,625	3,000	6,313	3,000
B.S.R.	x : 1	2,48			2,00
Tensile yield tooljoint	lbf	1 139 800			1 139 800
	kN	5 070			5 070
Torsional yield tooljoint	lbf-ft	47 200			43 400
	kNm	64,0			58,8
Make up torque (Max.)	lbf-ft	30 100			24 600
	kNm	40,8			33,4

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio		0,42		0,57
Drift diameter	inch		2,875	
Type of elevator shoulder			18°	
Burst pressure	psi	38 500		35 200
	Mpa	265		243
Collapse pressure	psi	35 200		31 610
	MPa	243		218
Adjusted weight	lbs/ft		51,64	
	kg/mtr		76,8	
Approx weight each joint	lbs		1 601	
	kg		726	
Capacity	gal/ft		0,369	
	ltr/mtr		4,58	
Open end displacement	gal/ft		0,80	
	ltr/mtr		9,94	
Closed end displacement	gal/ft		1,17	
	ltr/mtr		14,52	
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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**ODFJELL WELL SERVICES**A PART OF ODFJELL DRILLING
String number:**Joints:****Individual serial numbers:**

OWS-HWDP-516

40

OWS-2469 to OWS-2508

OWS-HWDP-519

50

OWS-2534 to OWS-2585

OWS-HWDP-527

100

OWS-0803737 to OWS-0810047

OWS-HWDP-529

100

OWS-100 to OWS-199

OWS-HWDP-530

50

OWS-200 to OWS-249

OWS-HWDP-531

50

OWS-250 to OWS-299

OWS-HWDP-533

52

OWS-350 to OWS-401

OWS-HWDP-534

30

OWS-410 to OWS-439

OWS-HWDP-535

100

OWS-450 to OWS-549

OWS-HWDP-536

100

OWS-650 to OWS-749

OWS-HWDP-537

100

OWS-550 to OWS-649

OWS-HWDP-538

25

OWS-DAB-750 to OWS-DAB-774