

Equipment No's: Ref. Enclosed page

Spec. No.:

DP-4-04

TECHNICAL SPECIFICATIONS

4" OD Drill Pipe, TSS-105, TT-390 Conn's.

New

Premium

80% Remaining Body Wall

DESCRIPTION

Type IU, 14.0 #, H₂S
 Range 2
 Conventional=welded T-J. / Integral=Monoblock Conventional

TUBE DATA

Material grade				TSS-105	
Internal plastic coating				TK-34P	
Tube body OD x ID	inch	4,000	3,340	3,868	3,340
Wall thickness, nominal	inch	0,330			0,264
Cross Sectional Area	inch ²	3,805			2,989
Polar Sectional Modulus	inch ³	6,458			5,046
Tensile yield pipe	lbf	399 500			313 900
	kN	1 777			1 396
Torsional yield pipe	lbf-ft	32 600			25 500
	kNm	44,2			34,6
80% Torsional Yield	lbf-ft	26 080			20 400
	kNm	35,4			27,7

CONNECTIONS DATA

Connection type				Turbo Torque 390	
Material grade				130 ksi	
Hardbanding				TCS-Titanium	
OD x ID	inch	4,875	2,688	4,577	2,688
B.S.R.	x : 1	NA			NA
Tensile yield tooljoint	lbf	686 700			536 700
	kN	3 055			2 387
Torsional yield tooljoint	lbf-ft	42 500			33 100
	kNm	57,6			44,9
Make up torque (Max.)	lbf-ft	29 700			23 200
	kNm	40,3			31,5

OPERATIONAL DATA

Tool-joint/Drill-pipe torsional ratio	=> 0.80	1,30		1,67
Drift diameter	inch		2,563	
Type of elevator shoulder			18°	
Burst pressure	psi	15 160		13 860
	Mpa	105		96
Collapse pressure	psi	15 900		11 620
	MPa	110		80
Adjusted weight	lbs/ft		16,34	
	kg/mtr		24,3	
Approx weight each joint	lbs		521	
	kg		236	
Capacity	gal/ft		0,43	
	ltr/mtr		5,34	
Open end displacement	gal/ft		0,25	
	ltr/mtr		3,10	
Closed end displacement	gal/ft		0,68	
	ltr/mtr		8,45	
Built In Length (shoulder to shoulder)	ft		31,9	
	mtr.		9,7	

Calculated using nominal OD & ID. Safety & Dope friction factor used: 1.0

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<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-DP-406	396	OWS-100 to OWS-395