

## TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: DP-5-04

### 5" OD Drill Pipe, S-135, NC-50 DSTJ Conn's

**New**

**Premium**

80% remaining Body Wall

**DESCRIPTION**

Type  
Range  
Conventional=welded T-J. / Integral=Monoblock

IEU, 19.5 #  
2  
Conventional

#### TUBE DATA

Material grade		S-135			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	5,000	4,276	4,855	4,276
Wall thickness, nominal	inch	0,362			0,290
Cross Sectional Area	inch <sup>2</sup>	5,275			4,152
Polar Sectional Modulus	inch <sup>3</sup>	11,415			8,949
Tensile yield pipe	lbf	712 100			560 600
	kN	3 168			2 494
Torsional yield pipe	lbf-ft	74 100			58 100
	kNm	100,5			78,8
80% Torsional Yield	lbf-ft	59 280			46 480
	kNm	80,4			63,0

#### CONNECTION DATA

Connection type		NC-50 DSTJ			
Material grade		130ksi			
Hardbanding		Arnco-300 XT			
OD x ID	inch	6,625	3,250	6,313	3,250
B.S.R.	x : 1	2,43			1,97
Tensile yield tooljoint	lbf	1 353 900			1 255 500
	kN	6 022			6 022
Torsional yield tooljoint	lbf-ft	71 200			66 000
	kNm	96,5			89,5
Make up torque (Max.)	lbf-ft	49 900			46 200
	kNm	67,7			62,6

#### OPERATION DATA

Tool joint/Drill pipe torsional ratio		0,96			1,23
Drift diameter	inch			3,125	
Type of elevator shoulder:				18°	
Burst pressure	psi	17 100			15 600
	Mpa	118			108
Collapse pressure	psi	15 700			10 000
	MPa	108			69
Adjusted weight	lbs/ft			22,9	
	kg/mtr			34,1	
Approx weight each joint	lbs			709	
	kg			321,6	
Capacity	gal/ft			0,72	
	ltr/mtr			8,97	
Open end displacement	gal/ft			0,35	
	ltr/mtr			4,33	
Closed end displacement	gal/ft			1,07	
	ltr/mtr			13,30	
Built In Length (shoulder to shoulder)	ft			31,00	
	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 !

<b>String number:</b>	<b>Joints:</b>	<b>Individual serial numbers:</b>
OWS-DP-53	481	OWS-2500 - OWS-2981
OWS-DP-513-DSTJ	1200	OWS-3000 - OWS-4291
OWS-DP-515-DSTJ	643	OWS-4500 - OWS-5142

Torque Tension Curve New Class Drill Pipe  
 API-S135-IEUE 5" x 19.5# (9.19<sup>mm</sup>) NK-DSTJ™ NC50 (OD: 6-5/8" ID: 3-1/4") with  
 TJ130 Design Factor=1.1

