

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: DP-3.5-04

3-1/2" OD Drill Pipe, G-105, NC-38 Conn's.

New

Premium

80% remaining Body Wall

DESCRIPTION

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

EU, 15.5 #
2
Conventional

TUBE DATA

Material grade		G-105			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	3,500	2,602	3,320	2,602
Wall thickness, nominal	inch	0,449		0,359	
Cross Sectional Area	inch ²	4,304		3,342	
Polar Sectional Modulus	inch ³	5,847		4,477	
Tensile yield pipe	lbf <i>kN</i>	451 900 <i>2 010</i>		350 800 <i>1 560</i>	
Torsional yield pipe	lbf-ft <i>kNm</i>	29 500 <i>40,0</i>		22 600 <i>30,6</i>	
80% Torsional Yield	lbf-ft <i>kNm</i>	23 600 <i>32,0</i>		18 080 <i>24,5</i>	

CONNECTION DATA

Connection type		NC-38 Standard			
Material grade		120 ksi			
Hardbanding		Arnco-300XT			
OD x ID	inch	5,000	2,438	4,719	2,438
B.S.R.	x : 1	2,54		1,99	
Tensile yield tooljoint	lbf <i>kN</i>	693 700 <i>3 086</i>		578 900 <i>2 575</i>	
Torsional yield tooljoint	lbf-ft <i>kNm</i>	22 200 <i>30,1</i>		18 270 <i>24,8</i>	
Make up torque (Max.)	lbf-ft <i>kNm</i>	13 000 <i>17,6</i>		11 000 <i>14,9</i>	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio	=> 0.80 *	0,75	0,98
Drift diameter	inch	2,313	
Type of elevator shoulder:		18°	
Burst pressure	psi <i>Mpa</i>	26 600 <i>163</i>	19 900 <i>137</i>
Collapse pressure	psi <i>MPa</i>	23 480 <i>162</i>	20 190 <i>139</i>
Adjusted weight	lbs/ft <i>kg/mtr</i>	17,1 <i>25,2</i>	
Approx weight each joint	lbs <i>kg</i>	534 <i>242</i>	
Capacity	gal/ft <i>ltr/mtr</i>	0,277 <i>3,44</i>	
Open end displacement	gal/ft <i>ltr/mtr</i>	0,26 <i>3,22</i>	
Closed end displacement	gal/ft <i>ltr/mtr</i>	0,54 <i>6,66</i>	
Built In Length (shoulder to shoulder)	ft <i>mtr.</i>	31,5 <i>9,6</i>	

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-3127	637	OWS-3200 to 3836