

Equipment No's: Ref. Enclosed page

Spec. No.: DP-3.5-07

**TECHNICAL SPECIFICATIONS**

**3-1/2" OD Drill Pipe, S-135, NC-38 Vam Eis Conn's.**

**New**

**Premium**

80% Remaining Body Wall

**DESCRIPTION**

Type EU, 15.5 #  
Range 3  
Conventional=welded T-J. / Integral=Monoblock Conventional

**TUBE DATA**

Material grade				S-135	
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 <sup>2</sup>		4,304		3,341
Polar Sectional Modulus	inch <sup>3</sup>		5,847		4,477
Tensile yield pipe	lbf		581 000		451 000
	<i>kN</i>		<i>2 584</i>		<i>2 006</i>
Torsional yield pipe	lbf-ft		37 960		29 050
	<i>kNm</i>		<i>51,5</i>		<i>39,4</i>
80% Torsional Yield	lbf-ft		30 368		23 240
	<i>kNm</i>		<i>41,2</i>		<i>31,5</i>

**CONNECTIONS DATA**

Connection type				NC-38 Vam Eis	
Material grade				120 ksi	
Hardbanding				Arnco-300XT	
OD x ID	inch	5,000	2,438	4,750	2,438
B.S.R.	x : 1		2,54		2,05
Tensile yield tooljoint	lbf		693 700		606 800
	<i>kN</i>		<i>3 086</i>		<i>2 699</i>
Torsional yield tooljoint	lbf-ft		30 570		27 530
	<i>kNm</i>		<i>41,4</i>		<i>37,3</i>
Make up torque (Max.)	lbf-ft		17 400		15 700
	<i>kNm</i>		<i>23,6</i>		<i>21,3</i>

**OPERATIONAL DATA**

Tool-joint/Drill-pipe torsional ratio	=> 0.80	0,81		1,05
Drift diameter	inch		2,313	
Type of elevator shoulder			18°	
Burst pressure	psi	30 310		27 700
	<i>Mpa</i>	<i>209</i>		<i>191</i>
Collapse pressure	psi	30 190		26 040
	<i>MPa</i>	<i>208</i>		<i>180</i>
Adjusted weight	lbs/ft		17,1	
	<i>kg/mtr</i>		<i>25,5</i>	
Approx weight each joint	lbs		771	
	<i>kg</i>		<i>350</i>	
Capacity	gal/ft		0,273	
	<i>ltr/mtr</i>		<i>3,39</i>	
Open end displacement	gal/ft		0,25	
	<i>ltr/mtr</i>		<i>3,10</i>	
Closed end displacement	gal/ft		0,52	
	<i>ltr/mtr</i>		<i>6,50</i>	
Built In Length (shoulder to shoulder)	ft		45,0	
	<i>mtr.</i>		<i>13,7</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-3122-EIS	113	OWS-9746 to OWS-9858