

TECHNICAL SPECIFICATIONS

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-3.5-08

3-1/2" OD Heavy-Weight Drill Pipe, 4145, NC-38 Vam Eis Conn's. New

Premium

80% remaining Body Wall

DESCRIPTION

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

AISI-4145H, 19.09#

2

Integral

TUBE DATA

Material grade		AISI-4145H (110 ksi)			
Internal plastic coating		TK-34P			
Tube body OD x ID	inch	3,500	2,250	3,250	2,250
Wall thickness, nominal	inch	0,625		0,500	
Cross Sectional Area	inch ²	5,645		4,320	
Polar Sectional Modulus	inch ³	6,981		5,192	
Tensile yield pipe	lbf	621 000		475 200	
	kN	2 762		2 114	
Torsional yield pipe	lbf-ft	36 920		27 460	
	kNm	50,1		37,2	
80% Torsional Yield	lbf-ft	29 536		21 968	
	kNm	40,0		29,8	

CONNECTION DATA

Connection type		NC-38 Vam Eis			
Stress Relief Grooves		NA			
Material grade		AISI-4145H (110 ksi)			
Hardbanding		TCS-Titanium			
OD x ID	inch	5,000	2,250	4,719	2,250
B.S.R.	x : 1	2,38		1,86	
Tensile yield tooljoint	lbf	711 800		530 900	
	kN	3 166		2 362	
Torsional yield tooljoint	lbf-ft	32 310		26 270	
	kNm	43,8		35,6	
Make up torque Maximum	lbf-ft	18 400		15 000	
	kNm	24,9		20,3	

OPERATIONAL DATA

Tool joint/Drill pipe torsional ratio		0,48		1,18	
Drift diameter	inch		2,125		
Type of elevator shoulder:			18°		
Burst pressure	psi	34 380		31 430	
	Mpa	237		217	
Collapse pressure	psi	32 270		28 640	
	MPa	222		197	
Adjusted weight	lbs/ft		25,9		
	kg/mtr		38,5		
Approx weight each joint	lbs		803		
	kg		364		
Capacity	gal/ft		0,208		
	ltr/mtr		2,58		
Open end displacement	gal/ft		0,40		
	ltr/mtr		4,97		
Closed end displacement	gal/ft		0,61		
	ltr/mtr		7,55		
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 !

<i>String number:</i>	<i>Joints:</i>	<i>Individual serial numbers:</i>
OWS-HWDP-3122-EIS	44	OWS- 0809752 0809754 0809755 0809756 0809757 0809758 0809760 0809761 0809762 0809763 0809765 0809766 0809768 0809769 0809771 0809776 0809780 0809782 0809783 0809784 0809785 0809786 0809787 0809788 0809789 0809790 0809791 0809792 0809794 0809795 0809796 0809798 0809800 0809801 0811049 0811050 0811051 0811054 0811055 0811056 0811296 0811298 0811300 0811304