

Equipment No's: Ref. Enclosed page

Spec. No.: HWDP-5.875-02

### TECHNICAL SPECIFICATIONS

#### 5-7/8" OD Heavy-Weight Drill Pipe, XT-57 Conn's.

New

Premium

80% Remaining Body Wall

#### DESCRIPTION

Type HW-105, 49.17#  
 Range 2  
 Conventional=welded T-J. / Integral=Monoblock Conventional

#### TUBE DATA

|                          |                   |                  |       |           |       |
|--------------------------|-------------------|------------------|-------|-----------|-------|
| Material grade           |                   | 4130M7 (105 ksi) |       |           |       |
| Internal plastic coating |                   | TK-34P           |       |           |       |
| Tube body OD x ID        | inch              | 5,875            | 4,000 | 5,500     | 4,000 |
| Wall thickness, nominal  | inch              | 0,938            |       | 0,750     |       |
| Cross Sectional Area     | inch <sup>2</sup> | 14,542           |       | 11,192    |       |
| Polar Sectional Modulus  | inch <sup>3</sup> | 31,260           |       | 23,528    |       |
| Tensile yield pipe       | lbf               | 1 526 900        |       | 1 175 200 |       |
|                          | kN                | 6 792            |       | 5 228     |       |
| Torsional yield pipe     | lbf-ft            | 157 800          |       | 118 790   |       |
|                          | kNm               | 213,9            |       | 161,1     |       |
| 80% Torsional Yield      | lbf-ft            | 126 240          |       | 95 032    |       |
|                          | kNm               | 171,2            |       | 128,8     |       |

#### CONNECTIONS DATA

|                           |        |                  |       |           |       |
|---------------------------|--------|------------------|-------|-----------|-------|
| Connection type           |        | XT-57            |       |           |       |
| Stress Relief Grooves     |        | NA               |       |           |       |
| Material grade            |        | 4130M7 (120 ksi) |       |           |       |
| Hardbanding               |        | TCS Titanium     |       |           |       |
| OD x ID                   | inch   | 7,000            | 4,000 | 6,724     | 4,000 |
| B.S.R.                    | x : 1  | 1,60             |       | 1,23      |       |
| Tensile yield tooljoint   | lbf    | 1 394 900        |       | 1 252 600 |       |
|                           | kN     | 6 205            |       | 5 572     |       |
| Torsional yield tooljoint | lbf-ft | 106 200          |       | 89 000    |       |
|                           | kNm    | 144,0            |       | 120,7     |       |
| Make up torque (Max.)     | lbf-ft | 63 700           |       | 53 400    |       |
|                           | kNm    | 86,4             |       | 72,4      |       |

#### OPERATIONAL DATA

|                                        |         |        |       |        |  |
|----------------------------------------|---------|--------|-------|--------|--|
| Tool-joint/Drill-pipe torsional ratio  |         | 0,67   |       | 0,89   |  |
| Drift diameter                         | inch    |        | 3,875 |        |  |
| Type of elevator shoulder              |         |        | 18°   |        |  |
| Burst pressure                         | psi     | 29 320 |       | 26 810 |  |
|                                        | Mpa     | 202    |       | 185    |  |
| Collapse pressure                      | psi     | 28 160 |       | 24 730 |  |
|                                        | MPa     | 194    |       | 171    |  |
| Adjusted weight                        | lbs/ft  |        | 55,1  |        |  |
|                                        | kg/mtr  |        | 82,1  |        |  |
| Approx weight each joint               | lbs     |        | 1 709 |        |  |
|                                        | kg      |        | 775   |        |  |
| Capacity                               | gal/ft  |        | 0,653 |        |  |
|                                        | ltr/mtr |        | 8,11  |        |  |
| Open end displacement                  | gal/ft  |        | 0,84  |        |  |
|                                        | ltr/mtr |        | 10,47 |        |  |
| Closed end displacement                | gal/ft  |        | 1,50  |        |  |
|                                        | ltr/mtr |        | 18,58 |        |  |
| Built In Length (shoulder to shoulder) | ft      |        | 31,0  |        |  |
|                                        | mtr.    |        | 9,45  |        |  |

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

Values herein is meant as guidelines only. Odfjell will not be held liable for any damage or injuries !

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| <i>String number:</i> | <i>Joints:</i> | <i>Individual serial numbers:</i> |
|-----------------------|----------------|-----------------------------------|
| OWS-HWDP-5789         | 50             | OWS-200 to OWS-249                |
| OWS-HWDP-57810        | 52             | OWS-250 to OWS-301                |
| OWS-HWDP-57811        | 30             | OWS-310 to OWS-339                |
| OWS-HWDP-57813        | 26             | NS-9168-001 to NS-9168-127        |