

Equipment No's: Ref. next page

Spec. No.: DP-5-01

## TECHNICAL SPECIFICATIONS

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

**New**
**Premium**

80% remaining Body Wall

#### DESCRIPTION

Type IEU, 19.5 #  
 Range 2  
 Conventional=welded T-J. / Integral=Monoblock 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 |       | 561 000 |       |
|                          | kN                | 3 168   |       | 2 495   |       |
| Torsional yield pipe     | lbf-ft            | 74 100  |       | 58 100  |       |
|                          | kNm               | 100,5   |       | 78,8    |       |
| 80% Torsional Yield      | lbf-ft            | 59 300  |       | 46 500  |       |
|                          | kNm               | 80,4    |       | 63,0    |       |

#### CONNECTIONS DATA

|                           |        |                             |       |           |       |
|---------------------------|--------|-----------------------------|-------|-----------|-------|
| Connection type           |        | NC-50, Standard             |       |           |       |
| Material grade            |        | 120ksi                      |       |           |       |
| Hardbanding               |        | Arnco 300-XT / TCS Titanium |       |           |       |
| OD x ID                   | inch   | 6,625                       | 3,250 | 6,3125    | 3,250 |
| B.S.R.                    | x : 1  | 2,43                        |       | 1,97      |       |
| Tensile yield tooljoint   | lbf    | 1 249 700                   |       | 1 249 700 |       |
|                           | kN     | 5 559                       |       | 5 559     |       |
| Torsional yield tooljoint | lbf-ft | 51 700                      |       | 47 300    |       |
|                           | kNm    | 70,1                        |       | 64,1      |       |
| Make up torque (Max.)     | lbf-ft | 31 000                      |       | 28 400    |       |
|                           | kNm    | 42,0                        |       | 38,5      |       |

#### OPERATIONAL DATA

|                                        |          |        |       |        |  |
|----------------------------------------|----------|--------|-------|--------|--|
| Tool joint/Drill pipe torsional ratio  |          | 0,70   |       | 0,89   |  |
| Drift diameter                         | inch     |        | 3,125 |        |  |
| Type of elevator shoulder:             |          |        | 18°   |        |  |
| Burst pressure                         | psi      | 17 100 |       | 15 500 |  |
|                                        | Mpa      | 118    |       | 107    |  |
| Collapse pressure                      | psi      | 15 600 |       | 10 000 |  |
|                                        | MPa      | 108    |       | 69     |  |
| Adjusted weight                        | lbs/ft   |        | 23,72 |        |  |
|                                        | kg/mtr   |        | 35,3  |        |  |
| Approx weight each joint               | lbs      |        | 735   |        |  |
|                                        | kg       |        | 333,4 |        |  |
| Capacity                               | gal/ft   |        | 0,722 |        |  |
|                                        | litr/mtr |        | 8,97  |        |  |
| Open end displacement                  | gal/ft   |        | 0,362 |        |  |
|                                        | litr/mtr |        | 4,50  |        |  |
| Closed end displacement                | gal/ft   |        | 1,08  |        |  |
|                                        | litr/mtr |        | 13,41 |        |  |
| Built In Length (shoulder to shoulder) | ft       | 31,00  |       |        |  |
|                                        | 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-DP-56             | 646            | OWS-700 to OWS-1345               |
| OWS-DP-57             | 485            | OWS-1400 to OWS-1885              |
| OWS-DP-58             | 647            | OWS-001 TO OWS-647                |
| OWS-DP-509            | 415            | OWS-10001 to OWS-10482            |
| OWS-DP-511            | 617            | OWS-10500 TO OWS-11129            |
| OWS-DP-514            | 1295           | OWS-6500 TO OWS-7796              |
| OWS-DP-516            | 648            | OWS-7900 TO OWS-8548              |
| OWS-DP-518            | 637            | OWS-8600 TO OWS-9236              |
| OWS-DP-519            | 642            | OWS-2000 TO OWS-2642              |
| OWS-DP-520            | 622            | OWS-9300 TO OWS-9949              |
| OWS-DP-521            | 596            | OWS-12001 TO OWS-12650            |
| PO-176326             | 1400           | OWS-12700 TO OWS-14099            |