

| <b>Technical 6.50" OD Elevator groove DC's<br/>90 square or 18 taper shoulder</b> | <b>Unit</b>     | <b>Standard<br/>90 Square</b> | <b>Alt 1<br/>18 taper</b> | <b>Alt 2<br/>18 taper</b> | <b>Alt 3<br/>18 taper</b> | <b>Alt 4<br/>18 taper</b> |
|---|-----------------|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Overall New Length  | ft              | 30.63                         | 30.625                    | 30.625                    | 30.625                    | 30.625                    |
| Box tong space  | in              | 20                            | 20                        | 20                        | 20                        | 20                        |
| Elevator Type   |                 | DC                            | DP                        | DP                        | DP                        | DP                        |
| Elevator recess OD  | in              | <b>5 7/8</b>                  | <b>5 7/8</b>              | <b>5 1/2</b>              | <b>5</b>                  | <b>4 1/2</b>              |
| Elevator recess length  | in              | 18                            | 33 1/2                    | 33 1/2                    | 33 1/2                    | 33 1/2                    |
| Wear pad 1  | in              | 3                             | 3                         | 3                         | 3                         | 3                         |
| Slip recess length  | in              | 21                            | 39.5                      | 39.5                      | 39.5                      | 39.5                      |
| Slip recess OD  | in              | <b>6</b>                      | <b>5 7/8</b>              | <b>5 1/2</b>              | <b>5</b>                  | <b>4 1/2</b>              |
| Wear pad 2  | in              | 12                            | 12                        | 12                        | 12                        | 12                        |
| Spiral section area   | in <sup>2</sup> | 31.44                         | 31.44                     | 31.44                     | 31.44                     | 31.44                     |
| Spiral length   | in              | 269.5                         | 219.5                     | 219.5                     | 219.5                     | 219.5                     |
| Pin tong space  | in              | 24                            | 40                        | 40                        | 40                        | 40                        |
| Max. ID   | in              | 2 13/16                       | 2 13/16                   | 2 13/16                   | 2 13/16                   | 2 13/16                   |
| Min. Wall thickness   | in              | 1.53                          | 1.53                      | 1.34                      | 1.09                      | 0.84                      |
| Factor diff. stick. in hole   | %               | 53%                           | 50%                       | 50%                       | 50%                       | 50%                       |
| Displacement  | bbbl/ft         | 1.3299                        | 1.3049                    | 1.2703                    | 1.2278                    | 1.1893                    |
| Capacity  | bbbl/ft         | 0.3227                        | 0.3227                    | 0.3227                    | 0.3227                    | 0.3227                    |
| Closed end displacement   | bbbl/ft         | 1.6527                        | 1.6276                    | 1.5931                    | 1.5505                    | 1.5120                    |
| Weight  | lbf             | 2678                          | 2628                      | 2558                      | 2473                      | 2395                      |
| Weight Variation from Std.  | %               | 0%                            | 98%                       | 96%                       | 92%                       | 89%                       |
| Wt / ft   | lbf/ft          | 87.44                         | 85.81                     | 83.53                     | 80.75                     | 78.20                     |
| <b>Connection</b>   |                 | API                           | NC 50                     |                           |                           |                           |
| OD  | in              | 6.5                           |                           |                           |                           |                           |
| ID  | in              | 2.8125                        |                           |                           |                           |                           |
| BB + SRG (NS-2)   |                 | yes                           |                           |                           |                           |                           |
| Connection Tensile Capacity   | lbf             | 987,913                       |                           |                           |                           |                           |
| Connection Torsional Capacity   | ft.lbf          | 45,493                        |                           |                           |                           |                           |
| Make up torque (with SRG)   | ft.lbf          | 25,848                        |                           |                           |                           |                           |
| B.S.R (With SRFs)   |                 | 2.36                          |                           |                           |                           |                           |
| <b>Body</b>   |                 |                               |                           |                           |                           |                           |
| Tensile Capacity  | lbf             | 1,998,737                     | 1,998,737                 | 1,678,282                 | 1,283,875                 | <b>927,031</b>            |
| Torsional Capacity  | ft.lbf          | 199,531                       | 199,531                   | 160,970                   | 116,819                   | 80,195                    |
| <b>Stiffness</b>  |                 |                               |                           |                           |                           |                           |
| ER Area moment of inertia   | in <sup>4</sup> | 55.4                          | 55.4                      | 41.8                      | 27.61                     | 17.06                     |
| ER Bending inertia variation from Std.  | %               | 0%                            | 100%                      | 75%                       | 50%                       | 31%                       |
| SR Area moment of inertia   | in              | 60.55                         | 55.4                      | 41.8                      | 27.61                     | 17.06                     |
| SR Bending inertia variation from Std.  | %               | 0%                            | 91%                       | 69%                       | 46%                       | 28%                       |
| Stiffness Ratio   | <3.5            | 1.379                         | 1.379                     | 1.71                      | 2.35                      | 3.43                      |
| Dawson Paslay Equivalent Buckling Resistance                                      | lbf WOB         | 91,802                        | 91,802                    | 78,118                    | 62,453                    | 48,368                    |
| <b>Material minimum yield strength</b>  | psi             | <b>110,000</b>                | <b>110,000</b>            | <b>110,000</b>            | <b>110,000</b>            | <b>110,000</b>            |

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