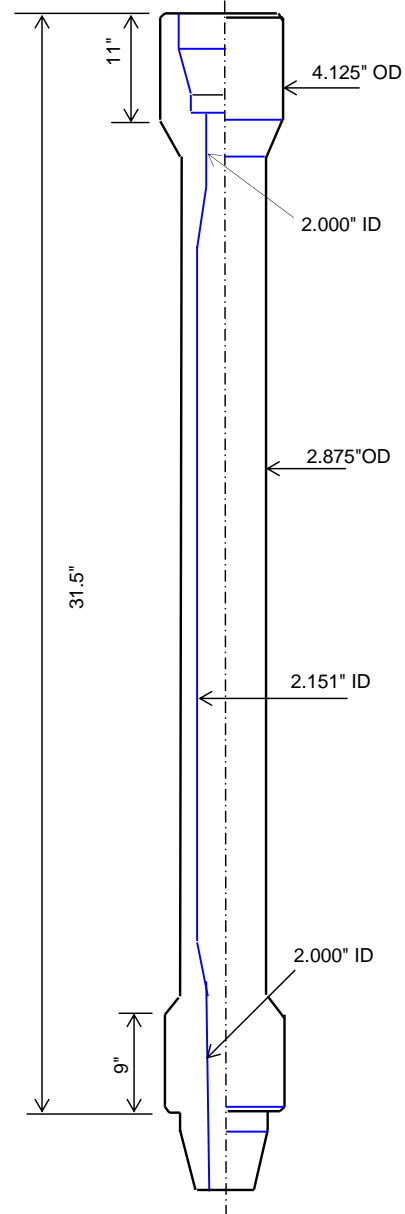


DRILL PIPE PERFORMANCE CHARACTERISTICS SHEET

| DRILL PIPE | |
|---|------------------|
| <i>Pipe Size and Weight:</i> | 2.7/8" x 10.4PPf |
| <i>Pipe Grade:</i> | S |
| <i>Range:</i> | 2 |
| <i>Tool Joint:</i> | 4-1/8" x 2" NC31 |
| PIPE | |
| Dimensional Data | New |
| <i>OD (in)</i> | 2.875 |
| <i>Wall thickness (in)</i> | 0.362 |
| <i>Minimum wall (%)</i> | 95.0 |
| <i>ID (in)</i> | 2.151 |
| <i>Cross sectional area pipe body (in²)</i> | 2.858 |
| <i>Cross sectional area OD (in²)</i> | 6.492 |
| <i>Cross sectional area ID (in²)</i> | 3.634 |
| <i>Section modulus (in³)</i> | 1.602 |
| <i>Polar section modulus (in³)</i> | 3.204 |
| Performance Data | New |
| <i>Torsional strength (ft-lbs)</i> | 20,798 |
| <i>Tensile strength (lbs)</i> | 385,820 |
| <i>80% Torsional strength (ft-lbs)</i> | 16,638 |
| <i>Burst Pressure capacity (psi)</i> | 29,747 |
| <i>Collapse capacity (psi)</i> | 29,716 |
| TOOL JOINT (Minimum 120 KSI Yield Strength) | |
| Dimensional Data | New |
| <i>OD (in)</i> | 4.125 |
| <i>ID (in)</i> | 2.000 |
| <i>Pin tong length (in)</i> | 9 |
| <i>Box tong length (in)</i> | 11 |
| <i>Connection</i> | NC31 |
| Performance Data | New |
| <i>Torsional Strength (ft-lbs)</i> | 13,201 |
| <i>Max Recommended Make-up Torque (ft-lbs)</i> | 7,921 |
| <i>Min Recommended Make-up Torque (ft-lbs)</i> | 5,941 |
| <i>Tensile strength (lbs)</i> | 495,726 |
| <i>Tool joint/Drill pipe torsional ratio (New pipe)</i> | 0.63 |
| Drill pipe assembly with NC31 tool joint | |
| <i>Average length (ft)</i> | 31.5 |
| <i>Drift size (in)</i> | 1.875 |



Note: Tool Joint and Pipe body values were derived as per API RP 7G and DS1 Latest edition. The above values are for reference only. DPI LLC is not responsible or liable for any loss or damage or injury resulting from the use of above information.