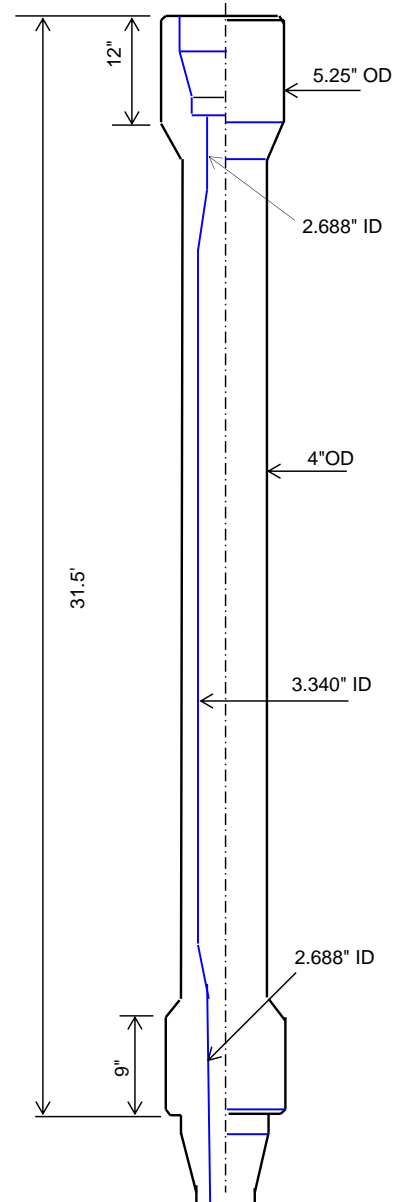


DRILL PIPE PERFORMANCE CHARACTERISTICS SHEET

DRILL PIPE	
<i>Pipe Size and Weight:</i>	4" x 14.0 PPf
<i>Pipe Grade:</i>	S
<i>Range:</i>	R11
<i>Tool Joint:</i>	5.1/4" x 2.688" DPDS40
PIPE	
Dimensional Data	New
<i>OD (in)</i>	4.000
<i>Wall thickness (in)</i>	0.33
<i>Minimum wall (%)</i>	95.0
<i>ID (in)</i>	3.34
<i>Cross sectional area pipe body (in²)</i>	3.805
<i>Cross sectional area OD (in²)</i>	12.566
<i>Cross sectional area ID (in²)</i>	8.762
<i>Section modulus (in³)</i>	3.229
<i>Polar section modulus (in³)</i>	6.458
Performance Data	New
<i>Torsional strength (ft-lbs)</i>	41,918
<i>Tensile strength (lbs)</i>	513,646
<i>80% Torsional strength (ft-lbs)</i>	33,534
<i>Burst Pressure capacity (psi)</i>	19,491
<i>Collapse capacity (psi)</i>	20,137
TOOL JOINT	
Dimensional Data	New
<i>OD (in)</i>	5.250
<i>ID (in)</i>	2.688
<i>Pin tong length (in)</i>	9
<i>Box tong length (in)</i>	12
<i>Connection</i>	DPDS40
Performance Data	New
<i>Torsional Strength (ft-lbs)</i>	32,667
<i>Max Recommended Make-up Torque (ft-lbs)</i>	19,600
<i>Min Recommended Make-up Torque (ft-lbs)</i>	14,700
<i>Tensile strength (lbs)</i>	776,400
<i>Tool joint/Drill pipe torsional ratio (New pipe)</i>	0.78
Drill pipe assembly with DPDS40 tool joint	
<i>Average length (ft)</i>	31.5
<i>Drift size (in)</i>	2.563
Make & Break: 3 Cycles	



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.