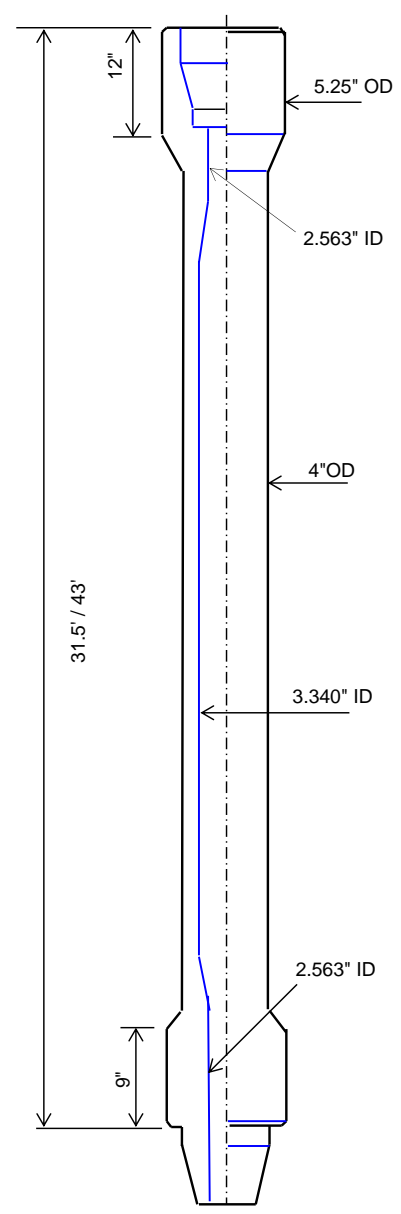


DRILL PIPE PERFORMANCE CHARACTERISTICS SHEET

DRILL PIPE		
<i>Pipe Size and Weight:</i>	4" x 14.0 PPf	
<i>Pipe Grade:</i>	S	
<i>Range:</i>	RII / RIII	
<i>Tool Joint:</i>	5.1/4" x 2.563" DPDS40	
PIPE		
Dimensional Data	New	Premium
<i>OD (in)</i>	4.000	3.868
<i>Wall thickness (in)</i>	0.33	0.264
<i>Minimum wall (%)</i>	95.0	80.0
<i>ID (in)</i>	3.34	3.34
<i>Cross sectional area pipe body (in²)</i>	3.805	2.989
<i>Cross sectional area OD (in²)</i>	12.566	11.751
<i>Cross sectional area ID (in²)</i>	8.762	8.762
<i>Section modulus (in³)</i>	3.229	2.523
<i>Polar section modulus (in³)</i>	6.458	5.046
Performance Data	New	Premium
<i>Torsional strength (ft-lbs)</i>	41,918	32,800
<i>Tensile strength (lbs)</i>	513,646	403,500
<i>80% Torsional strength (ft-lbs)</i>	33,534	26,200
<i>Burst Pressure capacity (psi)</i>	19,491	17,820
<i>Collapse capacity (psi)</i>	20,137	13,836
TOOL JOINT		
Dimensional Data	New	Premium
<i>OD (in)</i>	5.250	5.031
<i>ID (in)</i>	2.563	2.463
<i>Pin tong length (in)</i>	9	6"
<i>Box tong length (in)</i>	12	9"
<i>Connection</i>	DPDS40	DPDS40
Performance Data	New	Premium
<i>Torsional Strength (ft-lbs)</i>	36,333	28,167
<i>Max Recommended Make-up Torque (ft-lbs)</i>	21,800	16,900
<i>Min Recommended Make-up Torque (ft-lbs)</i>	16,350	10,985
<i>Tensile strength (lbs)</i>	838,300	750,000
<i>Tool joint/Drill pipe torsional ratio (New pipe)</i>	0.87	0.87
Drill pipe assembly with DPDS40 tool joint		
<i>Average length (ft)</i>	31.5 / 42.5	
<i>Drift size (in)</i>	2.438	
<i>Adjusted weight (lb/ft)</i>	15.82	
<i>Plain end weight (lb/ft)</i>	12.94	
<i>Fluid Capacity (gal/ft)</i>	0.441	
<i>Fluid displacement (gal/ft)</i>	0.245	



*Premium Connection OD is determined by TSR(0.87min) between tool joint and pipe

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. All data described are the users own risk & responsibility.