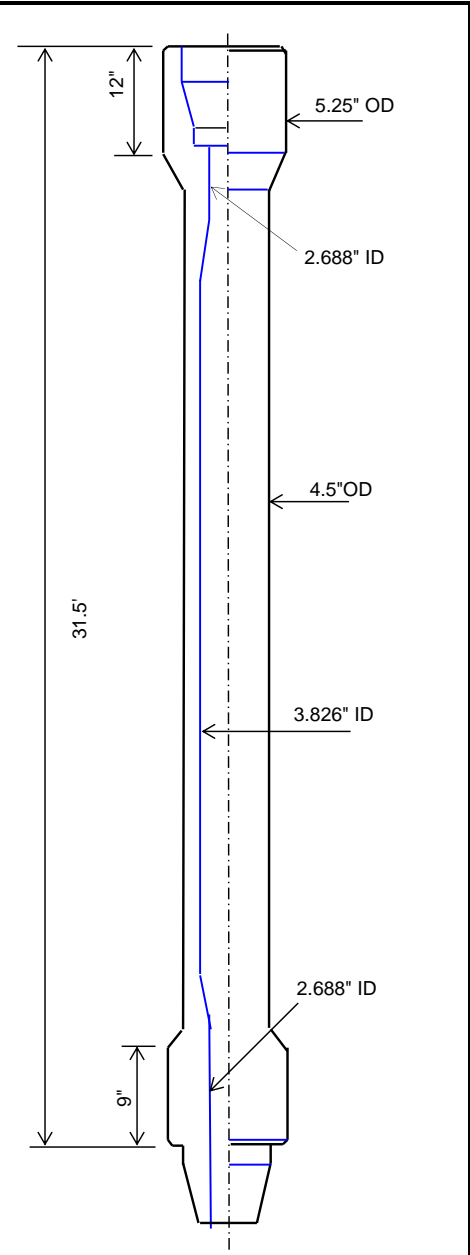


DRILL PIPE PERFORMANCE CHARACTERISTICS SHEET

DRILL PIPE	
Pipe Size and Weight:	4.5" x 16.6PPf
Pipe Grade:	S
Range:	2
Tool Joint:	5.1/4" x 2.688" DPDS40
PIPE	
Dimensional Data	New
OD (in)	4.500
Wall thickness (in)	0.337
Minimum wall (%)	95.0
ID (in)	3.826
Cross sectional area pipe body (in²)	4.407
Cross sectional area OD (in²)	15.904
Cross sectional area ID (in²)	11.497
Section modulus (in³)	4.271
Polar section modulus (in³)	8.543
Performance Data	New
Torsional strength (ft-lbs)	55,453
Tensile strength (lbs)	595,004
80% Torsional strength (ft-lbs)	44,362
Burst Pressure capacity (psi)	17,693
Collapse capacity (psi)	16,769
TOOL JOINT	
Dimensional Data	New
OD (in)	5.250
ID (in)	2.688
Pin tong length (in)	9
Box tong length (in)	12
Connection	DPDS40
Performance Data	New
Torsional Strength (ft-lbs)	32,700
Max Recommended Make-up Torque (ft-lbs)	19,600
Min Recommended Make-up Torque (ft-lbs)	14,700
Tensile strength (lbs)	776,400
Tool joint/Drill pipe torsional ratio (New pipe)	0.59
Drill pipe assembly with DPDS40 tool joint	
Average length (ft)	31.5
Drift size (in)	2.563



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.