



## GULF ENGINEERING SERVICES LTD. HEAVY WEIGHT DRILL PIPE PERFORMANCE CHARACTERISTICS

<b>Pipe Size and Weight:</b>	<b>6.625" x 4.500" Heavy Weight</b>
<b>Pipe Grade:</b>	<b>55ksi Standard Heavy Weight</b>
<b>Range:</b>	<b>2</b>
<b>Tool Joint:</b>	<b>8.500" x 4.625" 6-5/8" FH</b>

### PIPE BODY:

	New (Nominal)
OD (in):	6.625
Wall Thickness (in):	1.063
ID (in):	4.500
Calculated Plain End Weight (lbs/ft):	63.145
Tensile Strength (lbs):	1 021 600
Torsional Strength (ft-lbs):	118 900
80% Torsional Strength (ft-lbs):	95 120
Burst Pressure (psi):	15 444
Collapse Pressure (psi):	14 818

	New (Nominal)
Cross Sectional Area of Pipe Body (in <sup>2</sup> ):	18.567
Cross Sectional Area of OD (in <sup>2</sup> ):	34.472
Cross Sectional Area of ID (in <sup>2</sup> ):	15.904
Section Modulus (in <sup>3</sup> ):	22.470
Polar Section Modulus (in <sup>3</sup> ):	44.940

### TOOL JOINT 120 000 PSI MATERIAL YIELD STRENGTH 6-5/8" FH

### DRILL PIPE ASSEMBLY WITH 6-5/8" FH CONVENTIONAL CONNECTION

OD (in):	8.500
ID (in):	4.625
Pin Tong Length (in):	24.0
Box Tong Length (in):	24.0
Torsional Strength (ft-lbs):	92 500
Max Recommended Make-up Torque (ft-lbs):	55 500
Min Recommended Make-up Torque (ft-lbs):	46 250
Tensile Strength (lbs):	1 788 600
Tool Joint/ Drill Pipe Torsional Ratio (New Pipe):	0.78
Balance OD (in):	8.044

Adjusted Weight (lbs/ft):	73.59
Approximate Length (ft):	31.00
Fluid Displacement (gal/ft):	1.124
Fluid Capacity (gal/ft):	0.826
Fluid Capacity (bbls/ft):	0.01967
Drift Size (in):	4.250

Note: Minimum make-up is based on shoulder separation caused by bending