GULF ENGINEERING SERVICES LTD. HEAVY WEIGHT DRILL PIPE PERFORMANCE CHARACTERISTICS

Pipe Size and Weight: Pipe Grade: Range: Tool Joint: 5.000" x 3.000" Heavy Weight 55ksi Standard Heavy Weight 6.625" x 3.000" XT50

PIPE BODY:

	New (Nominal)		New (Nominal)
OD (in): Wall Thickness (in): ID (in): Calculated Plain End Weight (lbs/ft):	5.000 1.000 3.000 42.720	Cross Sectional Area of Pipe Body (in ²): Cross Sectional Area of OD (in ²): Cross Sectional Area of ID (in ²): Section Modulus (in ³):	12.566 19.635 7.069 10.681
		Polar Section Modulus (in ³):	21.363
Tensile Strength (lbs): Torsional Strength (ft-lbs): 80% Torsional Strength (ft-lbs): Burst Pressure (psi):	691 200 56 500 45 200 19 250		

TOOL JOINT 120 000 psi MATERIAL YIELD STRENGTH: XT50

Collapse Pressure (psi):

OD (in):	6.625
ID (in):	3.000
Pin Tong Length (in):	24.0
Box Tong Length (in):	24.0
Torsional Strength (ft-lbs):	105 300
Max Recommended Make-up Torque (ft-lbs):	63 200
Min Recommended Make-up Torque (ft-lbs):	35 100
Tensile Strength (lbs):	1 562 600
Tool Joint/ Drill Pipe Torsional Ratio (New Pipe):	1.86

17 600

DRILL PIPE ASSEMBLY WITH GRANT PRIDECO XT50 eXtreme TORQUE CONNECTION:

Adjusted Weight (lbs/ft):	49.77
Approximate Length (ft):	31.00
Fluid Displacement (gal/ft):	0.760
Fluid Capacity (gal/ft):	0.367
Fluid Capacity (bbls/ft):	0.00874
Drift Size (in):	2.750

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

The technical information contained herein, including the product performance sheet and other attached documents, has been extracted from information available from the manufacturer and is for reference only and not a recommendation. The user is fully responsible for the accuracy and suitability of use of the technical information. Gulf Engineering Services Ltd. cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. Drill pipe assembly properties are calculated based on uniform OD and wall thickness. No safety factor is applied. The information provided for various inspection classes and for various wear conditions (remaining body wall) is for information only and does not represent or imply acceptable operation limits. It is the responsibility of the customer and the appropriate performance ratings, acceptable product, maintain safe operational practices, and to apply a prudent safety factor suitable for the application. For API connections that have different pin and box IDs, tool joint ID refers to the pin ID. Per Chapter B, Section 4 VII of the IADC drilling tranual, it is recommended that drilling torque should not exceed 80% of MUT.

