

## GULF ENGINEERING SERVICES LTD. TUBING PERFORMANCE SHEET

Size and Weight: 4.500" 15.50 ppf 0.337" wall Grade: P-110

Grade: Range:

Tool Joint: 5.125" x 3.765 TS-HD

## PIPE BODY:

	Nominal 100% RBW	87.5% RBW	Premium 80% RBW
OD (in):	4 500	4.416	4.365
Wall Thickness (in):	0.337	0.295	0.270
Nominal ID (in):	3.826	3.826	3.826
Tensile Strength (lbs):	484 818	419 923	381 575
Torsional Strength (ft-lbs):	45 184	39 024	35 404
Burst Capacity (psi):	14 416	14 416	13 180
Collapse Capacity (psi):	14 341	11 503	9 748

## **TUBULAR ASSEMBLY:**

Approximate Length (ft): 31.0

Nominal Weight (lbs/ft): 15.50

Material Grade: P-110

Drift Size (in): 3.701

Compression Strength (lbs) 485 000

Max Bending (degrees/100ft): 112.0

Notes: Body Properties are calculated based on uniform OD and wall thickness. Burst Capacity for Nominal (100% RBW) based on 87.5% RBW per API.

## **CONNECTION:** TS-HD

Connection OD (in): 5.125
Connection ID (in): 3.826
Special Clearance OD (in): Not Reported

Threads per inch: 6

Make-up Loss (in): 3.342

Internal Pressure Rating (psi): 14 420

Connection Torsional Strength (ft-lbs): 26 700

Connection Tensile Strength (lbs): 472 300

Maximum MUT (ft-lbs): 9 400
Optimum MUT (ft-lbs): 8 450
Minimum MUT (ft-lbs): 7 500

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