

9-1/2" OD X 3.000" ID DRILL COLLAR, SPIRAL, AISI 4145, 7-5/8" REG

## DRILL COLLAR BODY

Nominal OD (in)	9-1/2
Nominal ID (in)	3.000
Pipe Wall Thickness (in)	3.250
Surface Finish	SPIRAL
Grade	AISI 4145
Cross Sectional Area of Pipe Body (in <sup>2</sup> )	63.814
Cross Sectional Area OD (in <sup>2</sup> )	70.882
Cross Sectional Area ID (in <sup>2</sup> )	7.069
Section Modulus (in <sup>3</sup> )	83.336
Polar Section Modulus (in <sup>3</sup> )	166.671
Momet of Inertia Drill Collar Body (in <sup>4</sup> )	395.84
Polar Moment of Inertia Drill Collar Body (in <sup>4</sup> )	791.69

## DRILL COLLAR CONNECTION

Connection	7-5/8" REG
OD (in)	9.500
ID (in)	3.000
Torsional Strength (lbs/ft)	132,036
Tensile Yield Strength (lbs)	2,459,066
Minimum Make-up Torque (lbs/ft)	82,523
Maximum Make-up Torque (lbs/ft)	90,775
BSR	3.061

## DRILL COLLAR ASSEMBLY

Adjusted Weight (lbs/ft)	187.47
Approx Average Length (ft)	31.00
Open End Displacement (gal/ft)	3.32
Closed End Displacement (gal/ft)	3.68
Fluid Capacity (gal/ft)	0.37
Drift Size (in)	2.875

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