

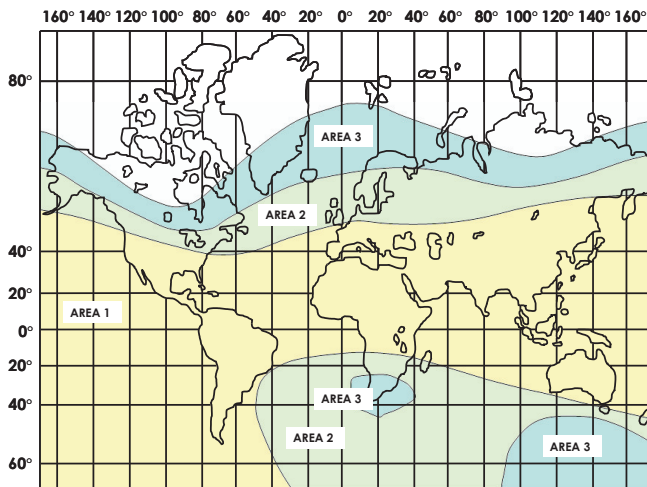
# NON-MAGNETIC DRILL COLLARS

**KEEP THE HOLE ON COURSE W/ OUT MAGNETIC SURVEY CONFUSION**

For accurate directional drilling and bottom hole surveying, **Spidle Turbeco's** non-magnetic drill collars allow for a true reading of the earth's magnetic field. Without interfering with accuracy of magnetic surveys, these stainless steel collars provide strength and hardness equal or better than standard steel collars. They are compatible with other standard drill string components. Nonmagnetic integral blade stabilizers, welded blade stabilizers and subs are available upon request.

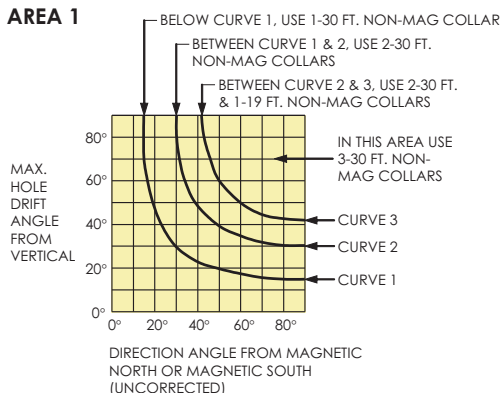
## WELL LOCATION DETERMINES STRING LENGTH

In areas closer to the earth's magnetic poles, long sections of our non-magnetic collars and stabilizers are used. Determine the total length of the collars required by referring to the global map and the corresponding empirical data chart.

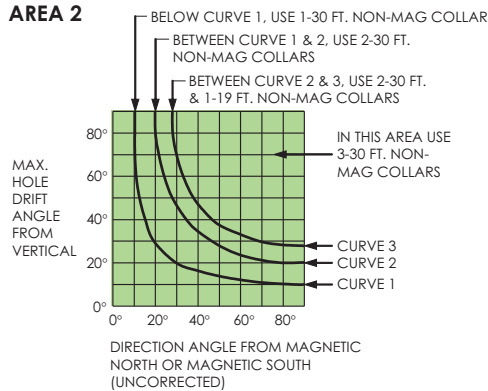


## EMPIRICAL DATA CHARTS TO DETERMINE REQUIRED LENGTH OF NON-MAGNETIC DRILL SYSTEM

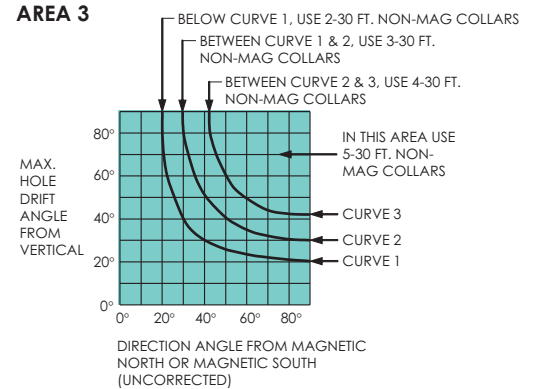
### AREA 1



### AREA 2



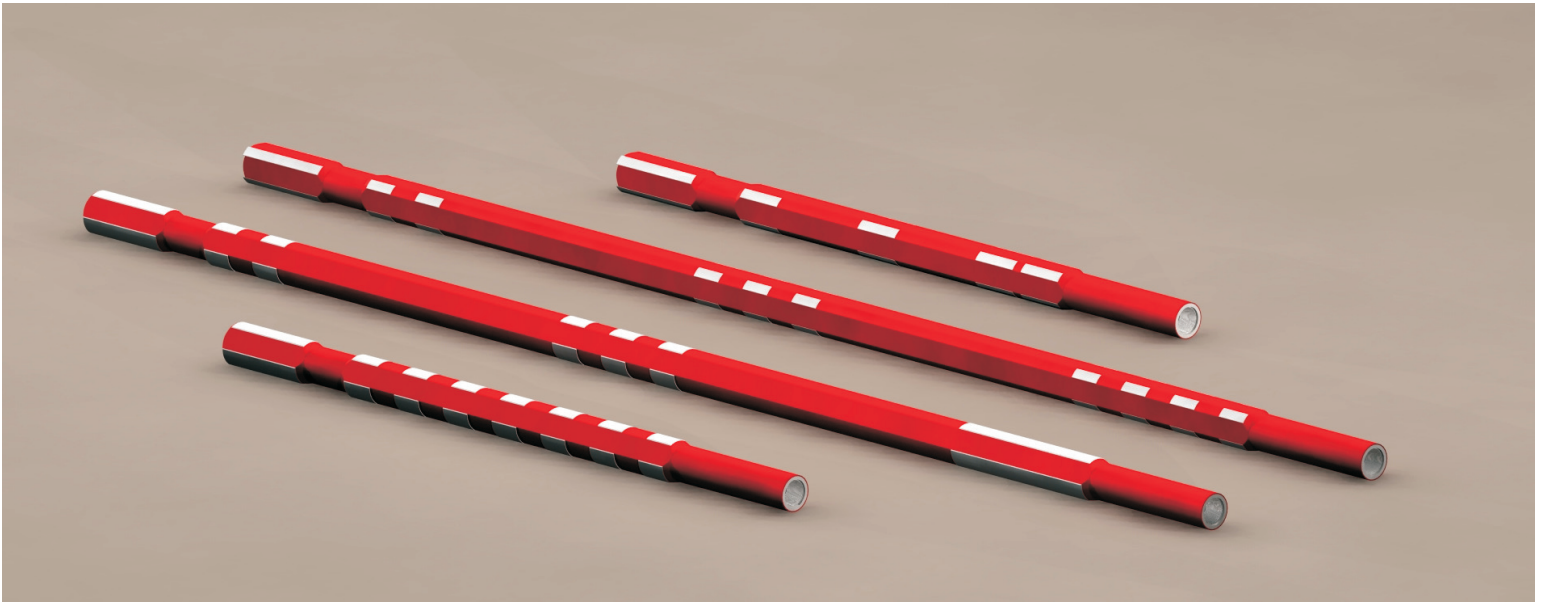
### AREA 3



# SQUARE & TRI-SIDED DRILL COLLARS

**Spidle Turbeco's** Square and Tri-sided Drill Collars are run in packed hole assemblies to reduce rapid changes in crooked hole formations. While both afford the needed rigidity to accommodate weight on bit requirements to achieve desired rates of penetration, the Tri-Sided Collar design allows for enhanced fluid circulation and less potential for differential sticking. Square drill collars are available in hole sizes 6 inches thru 17 ½ inches. Tri-Sided drill collars are available in hole sizes 6 inches thru 12 1/4 inches.

**Both are available in 15 foot and 30 foot lengths**



# SPIRAL AND SLICK DRILL COLLARS

**Spidle Turbeco's** Spiral Drill Collars will minimize the potential for differential sticking. The Spiral Drill Collars will reduce the amount of contact between the drill collar and the wall of the hole. Slick Drill Collars also available.

**Spiral Drill Collar**



**Slick Drill Collar**

