# **REELPOWER** OIL & GAS **RADOIL M**TULSAPOWER

# HEAVIER, SHEAR-ABLE DRILL COLLARS

## CONVENTIONAL DRILL COLLARS HAVE A LARGE CROSS SECTION WHICH IS HARD TO SHEAR

### THEY ARE THICK BECAUSE THEY NEED TO BE HEAVY

The Pemex blowout in the Bay of Campeche in 1979 releasing 3.3 million barrels of oil before the well was killed. "Reportedly they were pulling the drill string too quickly without proper fluid placement and the well started coming in. They had no choice but to close the shear rams; unfortunately, drill collars were in the stack and shearing failed."



• Replaceable Box and Pin couplings

PATENTED AND PATENTS PENDING

# HEAVIER, SHEAR-ABLE DRILL COLLARS

While drilling offshore a great advantage is that these drill collars are easily shear-able in any of the existing traditional shear ram BOPs. Standard steel drill collars cannot be easily sheared in standard BOPs

Radoil's **Patented** Heavy Drill Collars are 20% heavier than traditional Collars, reducing the number of drill collars in the drill string. The heavier collar provides a greater concentration of the weight in a shorter collar string above the bit, moving the tension / compression neutral point closer to the bit. This promotes increased drill bit efficiency and decreases costly bit replacement.

Due to the manufacturing processes, the concentricity is reduced and the harmonics are minimized. The higher weight increases the pipe inertia and helps reduce stick/slip issues. These factors reduce the vibration allowing for better penetration rates, longer bit life and less wear on all downhole string components. More time drilling and less time tripping.

The heavier drill collar also reduces the number of collars required in the drill string. While drilling horizontal wells the added weight in the vertical section assists in a greater reach or longer laterals.

These Drill Collars have been designed to the most stringent collar specifications. They also allow the box and pin couplings to be replaced when needed, lowering your repair costs.



#### THIN STEEL CROSS SECTION LEAD FILLED DRILL COLLARS REDUCES SHEARING FORCE AND INCREASES WEIGHT

## WE SOLVE DEEPWATER PROBLEMS

Our goal is to identify challenges, design innovative solutions and manufacture quality products that solve your deepwater problems. Our business is saving you time and money.

# Sheared and scaled drill collar

This drill collar was sheared by 2 major BOP manufacturers and successfully pressure tested. Maximum shear pressure was less than 2/3 the actuator working pressure.



RADOIL MTULSAPOWER

8780 West Road | Houston, TX 77064 (713)937-4494 | info@radoil.com www.radoil.com

#### PATENTED AND PATENTS PENDING