

PIPE GUIDE ARMS FOR BLIND SHEAR RAMS

ABSTRACT:

A pipe shear ram assembly (11) has a housing (73) having a bore (75) extending vertically therethrough for the passage of a pipe string (77). Ram blocks (13, 51) have blades (17, 63) positioned such that one slides over the other when the first and second ram blocks (13, 51) are moved toward each other to shear a well pipe (77). A pair of guide arms (25) extend from one of the rams (13). The guide arms (25) have tips (29) protruding a greater distance than the blade (17). Each of the guide arms (25) has an inboard wedge surface (31) beginning at the tip (29) and extending along a line that intersects the longitudinal axis (28) for guiding the pipe string (77) toward a bore axis (79) of the bore (75) in the event the first and second ram blocks (13, 51) are moved to the closed position.

Figure 1