ABSTRACT

VARIABLE BORE PACKER FOR A
RAM TYPE BLOWOUT PREVENTER

A packer (26) for use with a ram-type blowout preventer which has the capacity to accommodate a plurality of sizes of tubular members extending through the bore of the blowout preventer. The packer has a resilient body (28) designed to fit the face recess of the ram and a central recess (30) to receive a tubular member, an upper plate (32) positioned in the upper portion of the resilient body, a lower plate (34) positioned in the lower portion of the resilient body, and a plurality of metal insert segments (36, 38) positioned between the upper surface of the resilient body and the under surface of the upper plate and around the central recess of the resilient body. The metal insert segments have sufficient length to engage the exterior of a tubular member which is to be engaged and sealed against by the resilient body with the insert segments being selected to seal against a preselected small tubular member diameter which is less than the diameter which could be sealed by the packer without the insert segments. The resilient body is provided with a relief area around its central recess immediately above the lower plate. In another form a second set of insert segments are provided to extend to a smaller diameter than the first set of insert segements.

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