



21st June 2007

Product Advisory: # 12114
EB 702D Update Regarding Shearing Capabilities of Cameron Shear Rams

The purpose of this Product Advisory is to notify Cameron equipment users that Engineering Bulletin EB 702 D "Shearing Capabilities of Cameron Shear Rams" has been updated to provide the most up to date shearing information that Cameron has, regarding the shearability of drilling tubulars. Drill pipe specifications allow for large potential variances in mechanical and dimensional properties. Consequently, there is a large variance in the shear force requirement for a given drill pipe specification. Variances in the material strength, ductility, and thickness have a significant impact on the required shear force. This bulletin has been updated to address this issue.

Example; the required shearing pressure for 5" 19.5 ppf S135 grade pipe has been recorded to be as low as 2250 PSI and as high as 3540 PSI using the same BOP and operator configuration.

As can be seen, there is a significant variance of 57% in this example. Since there are numerous methods used in the industry to calculate the required shear pressure, it is very important for the BOP equipment user to understand if the shear pressure value supplied is a minimum, average, or maximum predicted value. When the basis of the shear pressure value is understood, a fact based decision on the required BOP shearing equipment can be made.

Cameron has performed extensive testing over the years to validate and investigate if a tubular is shearable with a given BOP operator configuration. In response to the large variances that have been experienced with required shear pressures, Cameron has performed a complete review of Cameron shear test data. EB 702 D has been updated to incorporate a shear pressure predicting formula that generates a shear pressure value. This value is derived from the maximum recorded shear force that Cameron has experienced in a test environment for a given drilling tubular size and material designation.

Please review the most current version of EB 702 D when selecting a suitable BOP shearing configuration for your drilling operations. Selecting an unsuitable BOP shearing configuration could result in substantial injury to persons or property.

Contact Cameron Engineering if you have any questions regarding the shearing capacity for a specific application.

Written: J. P. Corkhill Date: 7/10/07

John Corkhill

Senior Engineer, Cameron Drilling Systems

Approved: Raul Araujo Date: 07/11/2007

Raul Araujo

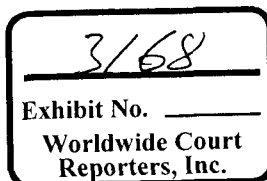
BOP Sustaining Engineering Manager, Cameron Drilling Systems

Approved: David McWhorter Date: 11/5/07

David McWhorter

Vice President of Engineering & Quality, Cameron Drilling Systems

Page 1 of 1: Product Advisory #12114



CONFIDENTIAL
ACCESS
RESTRICTED

CAM_CIV_0012630