

From: Subsea [subsea@dwh.rig.deepwater.com]
Sent: Friday, January 09, 2009 4:37 PM
To: DWH Toolpusher; DWH Driller
Subject: FW: Shearing Drill Pipe

Attachments: EB 702D rev B9.pdf
Shear ram pressure for new drill pipe V-150 Cameron's it will shear with 2000 psi.

Mark Hay
Sr. Subsea Supervisor
Deepwater Horizon
Rig – 713-232-8262 Ext. 2253
Fax – 713-232-8268

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From: Corkhill, John HYPERLINK "mailto:[mailto:John.Corkhill@c-a-m.com]" [mailto:John.Corkhill@c-a-m.com]
Sent: Friday, January 09, 2009 10:22 AM
To: Subsea
Subject: RE: Shearing Drill Pipe

Mark,
It looks like your tubular has .522" wall correct?
do you have a 5K system for your operators
do you have bonnets rated at 5k (what is the bonnet part number?)

Please review the following.
Based upon;
Bop : 18-15 TL standard 18" bore operator
DVS rams
Depth at 6000 ft
Mud weight at 12 ppg
Tubular 6.625" x .522" wall
Calculated shear pressure is 5000 PSI

Therefore a 5000 PSI operator is required. Also, a shear test is recommend since the value is so high. If the mud weight exceeds 12 ppg the shear pressure requirement increases.

b) Based upon;
Bop : 18-15 TL supershear operator
Supershear rams
Depth at 6000 ft
Mud weight at 12 ppg
Tubular 6.625" x .522" wall
Calculated shear pressure is 2000 PSI. This is below the maximum allowable working pressure of the bonnet and therefore meets Cameron requirements.

Please review attached EB 702D for calculation method and assumptions.

Regards,

John Corkhill
BOP Engineering Manager
Cameron Drilling Systems
10900 Corporate Centre Drive, Suite 100
Houston, Texas 77041
Tel: 281-901-3020
Cell: 832-657-3598

CONFIDENTIAL

TRN-INV-00647147

TREX-21789

E-Mail: [HYPERLINK "mailto:john.corkhill@c-a-m.com"](mailto:john.corkhill@c-a-m.com) john.corkhill@c-a-m.com

From: Subsea [HYPERLINK "mailto:\[mailto:subsea@dwh.rig.deepwater.com\]"](mailto:[mailto:subsea@dwh.rig.deepwater.com]) [<mailto:subsea@dwh.rig.deepwater.com>]
Sent: Wednesday, January 07, 2009 10:42 AM
To: Corkhill, John
Subject: RE: Shearing Drill Pipe

John

We have a Cameron 18-3/4" TL... we have 18" operators on our blind shear rams and 28" operators on our super shears, "casing shears" As for as the depth, we stay around 5000' or 6000' of water. Please let me know if you need more info.

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From: Corkhill, John [HYPERLINK "mailto:\[mailto:John.Corkhill@c-a-m.com\]"](mailto:[mailto:John.Corkhill@c-a-m.com]) [<mailto:John.Corkhill@c-a-m.com>]
Sent: Wednesday, January 07, 2009 10:34 AM
To: Subsea
Subject: RE: Shearing Drill Pipe

Mark,
Need to know the following:
BOP TYPE (E.G. 18-15 T)
OPERATOR TYPE (E.G LARGE BORE)
DEPTH OF SHEAR
MAXIMUM MUD WEIGHT DURING SHEARING

Regards,

John Corkhill
BOP Engineering Manager
Cameron Drilling Systems
10900 Corporate Centre Drive, Suite 100
Houston, Texas 77041
Tel: 281-901-3020
Cell: 832-657-3598
E-Mail: [HYPERLINK "mailto:john.corkhill@c-a-m.com"](mailto:john.corkhill@c-a-m.com) john.corkhill@c-a-m.com

From: Subsea [HYPERLINK "mailto:\[mailto:subsea@dwh.rig.deepwater.com\]"](mailto:[mailto:subsea@dwh.rig.deepwater.com]) [<mailto:subsea@dwh.rig.deepwater.com>]
Sent: Monday, January 05, 2009 12:58 PM
To: Corkhill, John
Subject: Shearing Drill Pipe

John

We have a new string of drill pipe and I need to know if the blind shear rams will cut this pipe and if so what pressure? Any help will be greatly appreciated.

Pipe size and Weight: 6-5/8" 0.522 IEU
Pipe Grade: V-150
Range: 3
Tool Joint: 8.500 X 4.250 6-5/8" FH

Adjusted weight lbs/ft 41.16
Tensile strength 2,102,300
Torsional Strength: ft/lbs. 109,000

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EB 702D rev B9.pdf
(3 MB)