



From: Knudsen, Torben  
Sent: Wed Jul 21 20:51:30 2010  
To: Pere, Allen L; Corser, Kent  
Subject: FW: BOP Shear Rams  
Importance: Normal  
Attachments: 5000sheardata.xls

This is a shear-ability chart from the Horizon

Torben Knudsen, P.E.  
BP Drilling Engineer  
Wyoming Team  
Office 281-366-6757  
Mobile: 281-467-8096

-----Original Message-----

From: Halvorson, Kathleen  
Sent: Friday, August 17, 2007 12:59 PM  
To: Knudsen, Torben  
Subject: Fw: BOP Shear Rams  
Info on shearability of various sizes of pipe.  
Figu <<..>> red you'd be interested.  
Have a good weekend.  
K

-----Original Message-----

From: subsea <subsea@dwh.rig.deepwater.com>  
To: Halvorson, Kathleen; DWH OIM <oim@dwh.rig.deepwater.com>; DWH Toolpusher <toolpusher@dwh.rig.deepwater.com>  
Sent: Fri Aug 17 14:12:25 2007  
Subject: FW: BOP Shear Rams

Kathleen

For now I would say no on us shearing 16" casing, but will wait and see what Cameron comes back with. I am not sure if you have seen this shear data chart or not? hope this helps. Let us know if you need more information.

Mark Hay

Sr. Subsea Supervisor  
Deepwater Horizon

Rig - 713-232-8262 Ext 253

Fax - 713-232-8268

subsea@dwh.rig.deepwater.com <mailto:subsea@dwh.rig.deepwater.com>

This email and any files transmitted with it from Transocean Offshore Deepwater Drilling, Inc. are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.

-----Original Message-----

From: Coltrin, George [mailto:george.coltrin@bp.com]

Sent: Friday, February 10, 2006 5:42 PM

To: DeepwaF@bp.com; James J Spizale (Spizale, James J); ReedJT@bp.com; Sepulvado, Ronald W (SepulvRW@bp.com); Nunley, Dwight D (Dwight.Nunley@BP.com); subsea

Cc: rig\_dwh, toolpusher, rig\_dwh, oim

Subject: FW: BOP Shear Rams

Mark: thanks for the info ... looks like the 6-5/8" 40# dp needs to be sheared with the casing shear rams.  
what about the 6-5/8" 32# dp?

Jim & Teddy: how much awareness of this issue is there among key personnel on the rig?

---

From: subsea [mailto:subsea@dwh.rig.deepwater.com]

Sent: Friday, February 10, 2006 4:27 PM

To: Deepwater Horizon, Formen; Coltrin, George

Subject: FW: BOP Shear Rams

George,

Here is the information that you were asking about:

Mark Hay

Subsea Eng.

Deepwater Horizon

Rig - 713-232-8262

Fax - 713-232-8268

subsea@dwh.rig.deepwater.com

This email and any files transmitted with it from Transocean Offshore Deepwater Drilling, Inc. are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.

-----Original Message-----

From: Bowles, Tom T [mailto:Thomas.Bowles@bp.com]

Sent: Friday, June 17, 2005 6:10 AM

To: Deepwater Horizon, Formen; Halvorson, Kathleen; Louviere, Robert

Cc: Coltrin, George; Skelton, Jake; Toolpusher@dwh.rig.deepwater.com; OIM@dwh.rig.deepwater.com

Subject: FW: BOP Shear Rams

Bob Louviere - Thanks for sharing this information from Steve ..... Copy distribution to all involved....  
Referenced shear ram capabilities for high strength drill pipe landing strings on future BP wells, Bonsai and Kaskida .....

Tom.....

---

From: Louviere, Robert

Sent: Thursday, June 16, 2005 6:43 PM

To: Coltrin, George; Halvorson, Kathleen; Bowles, Tom T

Cc: Skelton, Jake

Subject: FW: BOP Shear Rams  
FYI.

---

From: Donohue, Steve | <mailto:SDonohue@houston.deepwater.com>  
Sent: Thursday, June 16, 2005 3:45 PM  
To: Louviere, Robert ; Holst, Katy  
Cc: Keeton, John  
Subject: RE: BOP Shear Rams

Bob,

Can't cut it with the SBR shear rams, but can cut it with the casing shears. See attached chart. Although 50.4 S135, 6 5/8" pipe is not listed, 40.9 is, and this is already out of the pressure range for the SBR's. Note, the Horizon has 4,000 psi available to both the casing shears and SBR's if required.

Regards

Steve

This email and any files transmitted with it from Transocean Offshore Deepwater Drilling, Inc. are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender.

-----Original Message-----

From: Louviere, Robert | <mailto:louvr1@bp.com>  
Sent: Thursday, June 16, 2005 3:40 PM  
To: Holst, Katy  
Cc: [jkeeton@houston.deepwater.com](mailto:jkeeton@houston.deepwater.com); [sdonohue@houston.deepwater.com](mailto:sdonohue@houston.deepwater.com)  
Subject: BOP Shear Rams

Katy,

Basic question has come up regarding BOP shear rams: will the rams shear 6-5/8" 50.4# 0.813 WT S-135 landing string if required for any unforeseen reason? Asked a few folks here at BP, but no one was definite in their response. Please clarify.

Thanks,

Bob Louviere

Sr. Drilling Engineering Consultant

BP GOM Deepwater Exploration

Phone: (281) 366-3980

Cell: (337) 258-5114

**Cameron 18-3/4" 15M TL BOP**

Size (in)	Weight, (ppf)	Grade	Minimum Yield (psi)	I.D. (in)	Wall (in)	Shear Pressure (psi) @ Ambient		Shear Pressure (psi) @ 5000psi Wellbore		Shear Pressure (psi) @ 10,000psi Wellbore	
						18" Piston with Shear Blind Rams	28" Piston with Casing Shear Rams	18" Piston with Shear Blind Rams	28" Piston with Casing Shear Rams	18" Piston with Shear Blind Rams	28" Piston with Casing Shear Rams
Casing											
13.375	68	L80	80000	12.415	0.480	4433	1715	5165	2095	5845	2295
9.625	47	L80	80000	8.681	0.472	3084	1197	3834	1487	4578	1777
7	29	L80	80000	6.184	0.408	1929	745	2667	1035	3414	1325
Drill String											
3.5	12.95	S135	135000	2.750	0.375	1412	548	2159	838	2905	1128
3.5	13.3	S135	135000	2.764	0.368	1388	539	2135	829	2882	1119
3.5	25.3	HWDp	55000	2.062	0.719	801	481	1728	671	2673	961
5	19.5	S135	135000	4.276	0.362	4922	785	2569	1075	3516	1365
5	49.3	HWDp	55000	3.000	1.000	686	762	2736	1052	3853	1342
6.625	40.9	S135	135000	5.345	0.640	4614	1791	5901	2081	8819	2374
6.625	70.5	HWDp	55000	4.500	1.063	2961	1126	3847	1416	5094	1706
Drill Collars											
4.75	50	Drill Collar	110000	2.000	1.375	763	1768	763	2958	859	2348
6.5	91	Drill Collar	110000	2.813	1.844	763	3271	763	3561	859	3850
8	150	Drill Collar	100000	2.813	2.594	763	4857	763	5147	859	5437
9.5	216	Drill Collar	100000	3.000	3.250	763	7036	763	7326	859	7815

Note 1: Shear pressures in GREEN are within 5000psi operating system limitation and the geometry of the ram.

Note 2: Shear pressures in RED are outside the operating system capacity and/or the geometry of the ram.

Note 3: All shear pressures listed are calculated values. Actual shear pressures may differ due to variations in tubular mechanical properties, age or condition of tubular, and condition of ram blades.

Note 4: Calculated pressures in excess of 2700 psi should be verified by an actual shear test.

Above information is relative to Transocean's Deepwater Horizon MODU..htb 6/17/2005