



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.  
Figs <<...>> 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>

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

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

BP-HZN-BLY0010345

TREX-07046

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?

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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

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-----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 ...

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From: Louviere, Robert  
Sent: Thursday, June 16, 2005 6:43 PM  
To: Coltrin, George; Halvorson, Kathleen; Bowles, Tom T  
Cc: Skelton, Jake

BP-HZN-BLY0010346

Subject: FW: BOP Shear Rams  
FYI.

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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

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-----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

BP-HZN-BLY00103461

**Cameron 18-3/4" 15M IL 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
<b>Casing</b>											
13.375	68	L80	80000	12.415	0.480	4433	1715	5165	2095	5942	2295
9.625	47	L80	80000	8.681	0.472	3084	1197	3831	1487	4578	1777
7	29	L80	80000	6.184	0.408	1920	745	2067	1035	3414	1325
<b>Drill String</b>											
3.5	12.95	S135	135000	2.750	0.375	3402	548	2159	836	2905	1128
3.5	13.3	S135	135000	2.764	0.368	1388	439	2135	829	2882	1119
3.5	25.3	HWDP	55000	2.062	0.719	781	381	3728	871	2875	961
5	19.5	S135	135000	4.276	0.362	4922	785	2509	1075	3536	1365
5	49.3	HWDP	55000	3.000	1.000	1861	762	2716	1052	3453	1342
6.625	40.9	S135	135000	5.345	0.640	4614	1291	3901	1681	4038	2311
6.625	70.5	HWDP	55000	4.500	1.063	2902	1126	3667	1416	4094	1706
<b>Drill Collars</b>											
4.75	50	Drill Collar	110000	2.000	1.375	3533	1768	3526	2958	3678	2348
6.5	91	Drill Collar	110000	2.813	1.844	3506	3271	3928	3561	3678	3850
8	150	Drill Collar	100000	2.813	2.594	3835	4057	3628	3147	3628	5437
9.5	216	Drill Collar	100000	3.000	3.250	3925	7636	3628	3326	3038	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