From: Tooms, Paul J
Sent: Mon May 31 07:46:05 2010
To: McDonald, W Leith; Wells, Kent; Chandran, Ruban K
Cc: Grounds, Cheryl A.; Edwards, Michael L; Baker, Kate H (UNKNOWN BUSINESS PARTNER); Hill, Trevor; Birrell, Gordon Y; Looney, Bernard; Caldwell, Jason
Subject: Re: Discussion
Importance: Normal

I think we should be clear that what we have set out is a plausible explanation and we are open to other interpretations. If we ultimately have a system that can hold back pressure and find that we can hold say 8000 psi on the system then that would demonstrate that the well still has integrity. And it would be a great outcome.

However that would require aiming at some pressure containing device rather than the Slocum overshot.
As I suggested we should probably turn those slides from the top kill debrief into a brief report.

In order for us to be ahead of the game we need to get very certain about our disconnect time allied with hurricane statistics so that we can define what the probable scale of the risk is.

Paul
Paul Tooms.
Head of Engineering, BP E&P
tel +44 778 597 3421 ----------
Sent from BB

From: McDonald, W Leith
To: Wells, Kent; Chandran, Ruban K
Cc: Tooms, Paul J; Grounds, Cheryl A.; Edwards, Michael L; Baker, Kate H (UNKNOWN BUSINESS PARTNER); Hill, Trevor; Birrell, Gordon Y
Sent: Mon May 31 03:37:49 2010
Subject: FW: Discussion

Kent/Ruban,

Please be aware of a late evening request from Secretary Chu on the Third Kill Attempt. The Secretary is questioning our assessment of the kill operation and the potential for the rupture discs to be ruptured. Trevor Hill is working on modeling the flowpaths as discussed below but, Secretary Chu also wants copies of the videos before, during and after the kill operation for an independent assessment. I've placed a request for the video footage of the kink leaks from 2pm to 6pm, on the 28th May, as requested. They should be available at 6am tomorrow morning for load up to the I-Backup site where the previous videos where loaded. The underlying message that was related to me is the Secretary's concern over the implications should a hurricane come into the GoM (i.e. well must be produced into sea while abandoned). We'll proceed with loading the videos unless directed otherwise from you.

Also during today's teleconference, the science think tank raised a question as to whether an option was available to produce the well to an existing pipeline in the area. I did receive an email offering such an option from ENI shortly after the incident but, discounted it at the time as we didn't want to produce it then, we wanted to kill it.

I was planning to take tomorrow off with Michael Edwards providing interface with the scientists, but can be reached via cellular as required. If you have any additional questions, please let me know.

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From: Tieszen, Sheldon R [mailto:srtiesz@sandia.gov]
Sent: Sunday, May 30, 2010 8:42 PM
To: Morrow, Charles W; Dykhuizen, Ronald C; dykhuizen; McDonald, W Leith
Cc: trever.hill@uk.bp.com; Tieszen, Sheldon R; Edwards, Michael L
Subject: Discussion

Ron/Charlie,

I had discussion with Trevor after our discussion. We agreed that there is a rich set of data from the 28 May kill operation. I sent you the data files and a screen capture of the image.

Trevor suggests that the timing of operations on the ship and its relation to the choke line pressure (i.e., the 700 psi drop) may or may not be consistent with the scenario we discussed. He thought an analysis was warranted. The screen capture is only from one of the ships. I have not looked carefully at the file but Trevor says that it contains data from both ships. The important variables are the ship pressure (top of choke line pressure), the choke pressure (at bottom of BOP) and the mass flow rate are important to see if they tell a consistent story. You should ignore both the kill line pressure (gauge was partially blocked), the BOP pressure (which has a ~960 psi offset from the choke line pressure, and the calculated BOP pressure (which is someone's goofy idea of how to correct the BOP gauge pressure).

Trevor further suggests that instead of plotting these pressures vs time that you plot them vs. total volume flow of mud. You can calculate the volumes needed to fully flood certain compartments and so should be able to evaluate the timing of the 700 psi drop before lockup of the choke line pressure with the volumes involved. Enjoy. Sec. Chu also wants you to watch videos - see below

Trevor/Leith,

Tom Hunter called me and said that Sec. Chu wanted an independent analysis of the video. My brain is pretty fried with as little sleep as I have had, but one of the principle pieces of evidence cited for the into

the formation theory is the rate at which gas is seen to come back into the kink jets. Sec. Chu wants to know whether this observation is one's persons opinion or whether it can be independently verified. So he wants Ron/Charlie to watch the kink videos from the third kill shot. Leith was just up here and we discussed getting the video from 2pm Friday to 6 pm Friday (before through after) the kill operation to independently corroborate the observation. Leith is putting a request in to obtain the data. I will try and find a way to get it to you.

Thank you,

Sheldon Tieszen
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srtiesz@sandia.gov