

From: Marcia K McNutt/DO/USGS/DOI
Sent: Wednesday, May 19, 2010 5:22:44 PM
To: "Hunter, Tom" <tohunte@sandia.gov>
Subject: Re: 3rd erosion hole

This third hole complicates efforts to estimate total discharge into the Gulf and to capture the discharge. It is a setback for sure. Everyone wants this to be easy, and it is anything but. The release from the well is time dependent (on account of the differing pressure from the well and the differing gas/oil ratios) and the amounts that are being captured and dispersed are constantly changing. It is going to be very difficult in the end to back out what the total release from this well was over time.

Marcia

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From:	"Hunter, Tom" <tohunte@sandia.gov>
To:	"mcnutt@usgs.gov" <mcnutt@usgs.gov>
Date:	05/19/2010 05:12 PM
Subject:	Re: 3rd erosion hole

Marcia

Please note that the new vent was in this mornings status report and in my announcement. In the short term the situation is worse only if the flow is significant or increasing. If the kill works it is virtually the same as now. Without a successful kill it could diminish the role of the ritt. Tom bickel will be on sight tomorrow to get a full report prior to our call
What is your view of the current efforts to estimate the release into the gulf
Tom

From: Marcia K McNutt <mcnutt@usgs.gov>
To: Alex Slocum <[REDACTED]>; Majumdar, Arun <Arun.Majumdar@hq.doe.gov>
Cc: rlg2@us.ibm.com <rlg2@us.ibm.com>; Benner, John C. (LANL); Keese, David L; John P. Holdren <[REDACTED]>; Hurst, Kathleen T; Tatro, Marjorie; perfect1@llnl.gov <perfect1@llnl.gov>; Richard_L_Garwir <[REDACTED]>; OConnor, Rod <Rod.OConnor@hq.doe.gov>; Steve Chu <[REDACTED]>; Bickel, Thomas C; Hunter, Tom; George A. COOPER <gcooper@berkeley.edu>
Sent: Wed May 19 14:35:17 2010
Subject: Re: 3rd erosion hole

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This is bad news. Impacts ability of RITT to capture flow. What about magnetic patch idea? Was that pursued?

From: Alex Slocum [REDACTED]
Sent: 05/19/2010 03:28 PM EST
To: "Majumdar, Arun" <Arun.Majumdar@hq.doe.gov>
Cc: "rlg2@us.ibm.com" <rlg2@us.ibm.com>; "Majumdar, Arun" <Arun.Majumdar@hq.doe.gov>; "Benner, John C. (LANL)" <benner@lanl.gov>; "Keese, David" <DLKEESE@SANDIA.GOV>; John Holdren <[REDACTED]>; "Hurst, Kathy" <kthurst@sandia.gov>; Marcia McNutt; "Tatro, Marjorie" <mltatro@sandia.gov>; "perfect1@llnl.gov" <perfect1@llnl.gov>; "Richard_L._Garwin" <[REDACTED]>; "OConnor, Rod" <Rod.OConnor@hq.doe.gov>; SCHU <[REDACTED]>; "Bickel, Thomas" <tbickel@sandia.gov>; "Hunter, Tom (Sandia)" <tohunte@sandia.gov>; "George A. COOPER" <gcooper@berkeley.edu>
Subject: 3rd erosion hole

The appearance of a 3rd hole at the kink implies well is producing sand

If the well is not killed with the dynamic kill Sunday then the flow in kink needs to be reduced (e.g. With birds nest) or tp needs to come off in controlled manner and replaced with new BOP or a production tube inserted or the shaped charge plug

Alex

Sent from my iPhone

On May 19, 2010, at 12:36 PM, "Majumdar, Arun" <Arun.Majumdar@hq.doe.gov> wrote:

For the sake of accuracy, a few corrections to my previous drawings of the rupture disks

- Arun
-

----- Forwarded Message

From: "Miller, Richard A" <Richard.Miller2@bp.com>
Date: Wed, 19 May 2010 12:46:51 -0400
To: Arun Maumdar <arun.majumdar@hq.doe.gov>
Cc: MC252_Email_Retention <MC252_Email_Retention@bp.com>, "Pattillo, Phillip D" <Phillip.Pattillo@bp.com>
Subject: RE: Rupture Disk Drawings

Arun, the diagram looks good. Since you asked about accuracy, permit me to expand on a few of the items. The

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details may not be necessary for your understanding, but I would feel bad if you or your office went and made some calculations based on incomplete information.

- Attached is the general disk configuration. This is not a BP-specific configuration but the geometry used for industry applications of downhole burst disks for annular pressure mitigation. Notice that the 0.433" dimension is for the minor diameter of the disk housing rather than the hole through the disk housing. Although the file is called "new seal configuration", I believe I am recalling that it was "new" in 2003.
- The three disk subs are listed at 980 feet, 3,237 feet, and 4,493 feet below the mudline or ocean floor.
- The 16" casing has a nominal outside diameter of 16" and a nominal inside diameter of 14.85".
- The 9-7/8" casing has a nominal outside diameter of 9-7/8" and a nominal inside diameter of 8.625".

I hope this helps with your understanding and evaluation.

Rich Miller

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<new seal configuration.jpg>

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