

1885625809-47199-16933-137-226

From: Marcia K McNutt <mcnutt@usgs.gov>  
Sent: Wed, 4 Aug 2010 15:30:21  
To: GS FOIA 0105 <foia0105@usgs.gov>  
Subject: Fw: videos of flow out stacking cap

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----- Forwarded by Janet N Arneson/DO/USGS/DOI on 08/04/2010 03:29 PM -----

From: "wereley, Steven T." <wereley@purdue.edu>

To: Marcia K McNutt <mcnutt@usgs.gov>, "Bill.Lehr@noaa.gov"  
<Bill.Lehr@noaa.gov>

Date: 07/30/2010 03:09 PM

Subject: RE: videos of flow out stacking cap

Marcia, understood. If you just want to make available what videos there are for this brief time period, I could sift through it and see what, if anything, I can do with it. Save you some work... We don't necessarily need high resolution video but long data streams are good, say on the order of 30 seconds of video where the ROV is not moving significantly.

Best,

Steve Wereley, Professor of Mechanical Engineering  
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From: Marcia K McNutt [mailto:[mcnutt@usgs.gov](mailto:mcnutt@usgs.gov)]  
Sent: Friday, July 30, 2010 3:03 PM  
To: Wereley, Steven T.; [Bill.Lehr@noaa.gov](mailto:Bill.Lehr@noaa.gov)  
Subject: RE: videos of flow out stacking cap

I should mention that NO specific hi res videos had been scheduled on the ROVs for the very opportunistic brief period of time to observe the flow that opened up when the capping stack was installed. So Art and I will have to go back and see what is available. It is probably not going to be anything like what you have used before in terms of a real survey of the

1885625809-47199-16933-137-226

plume, so whether it will be useful is the question.

Marcia

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From: Wereley, Steven T. <wereley@purdue.edu> [mailto:wereley, Steven T. <wereley@purdue.edu>]

Sent: Friday, July 30, 2010 2:51 PM

To: "Bill.Lehr@noaa.gov" <Bill.Lehr@noaa.gov>; Marcia K McNutt <mcnutt@usgs.gov>

Subject: videos of flow out stacking cap

Hi Marcia and Bill. The issue that Arthur Ratzel brought up about the availability of videos from the period after the stacking cap was installed and before the valves were closed is a very good suggestion. If we could get those videos we could cut down the uncertainties on our measurements significantly. We wouldn't have a mangled orifice and we wouldn't have two drill pipes stuck in the riser. Our uncertainty would be limited to almost exclusively the ratio of speed between the outer structures and the average jet speed.

1885625809-47199-16933-137-226

I think some members of the group would be interested in these videos and would re-run their analyses on the new images. I know I would.

Best,

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