

4030102910-30347-17928-166-179

From: Marcia K McNutt <mcnutt@usgs.gov>
Sent: Wed, 4 Aug 2010 15:17:34
To: GS FOIA 0105 <foia0105@usgs.gov>
Subject: Fw: NEW VIDEO! plus claibration

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----- Forwarded by Janet N Arneson/DO/USGS/DOI on 08/04/2010 03:17 PM -----

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

To: "Bill.Lehr@noaa.gov" <Bill.Lehr@noaa.gov>, Alberto Aliseda
<aaliseda@u.washington.edu>, "savas@newton.berkeley.edu"
<savas@newton.berkeley.edu>, James J Riley <rileyj@u.washington.edu>,
Franklin Shaffer <Franklin.Shaffer@NETL.DOE.GOV>, Poojitha Yapa
<pdy@clarkson.edu>, Juan Lasheras <lsheras@ucsd.edu>, "Espina, Pedro
I." <pedro.espina@nist.gov>, "Possolo, Antonio"
<antonio.possolo@nist.gov>

Cc: 4030102910-30347-17928-166-179
"Mc >> Marcia K McNutt" <mcnutt@usgs.gov>

Date: 06/08/2010 11:39 PM

Subject: RE: NEW VIDEO! plus claibration

Hi everyone. I've downloaded 4 videos and I put the rest on to download overnight.

TOPHAT_06-03-10_14-29-22 is a really decent video from a feature tracking point of view

TOPHAT_06-03-10_16-09-56 has about 15 seconds of decent footage at the very front of the video

TOPHAT_06-03-10_18-07-30 is completely useless from a feature tracking point of view

TOPHAT_06-03-10_21-46-50 is completely useless from a feature tracking point of view

Ira (or anyone else with petroleum experience): what are the white chunks in the darker main stream of the flow? Are those the hydrates or are they bubbles?

Best,

4030102910-30347-17928-166-179

Steve Wereley, Professor of Mechanical Engineering
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From: Bill Lehr [Bill.Lehr@noaa.gov]
Sent: Tuesday, June 08, 2010 7:52 PM
To: Alberto Aliseda; savas@newton.berkeley.edu; James J Riley; Wereley, Steven T.; Franklin Shaffer; Poojitha Yapa; Juan Lasheras; Espina, Pedro I.; Possolo, Antonio
Cc: Mc >> Marcia K McNutt
Subject: NEW VIDEO! plus claibration

New ftp files can be found at the following location below. New files will be continually uploaded throughout the night. In keeping with Antionio's suggestion to do sampling throughout the time period, I will leave it up to the individual to pick which files to examine. There are too many large files to try to download and process them all.

BP has sent us some calibrating information that I am forwarding.

I would like those who have not yet sent me their reports in word format to please do so in order to send the report to the reviewers.

https://sftp.orr.noaa.gov/deepwater_horizon_ext/Videos/post_cut_video/Deepwater%20Horizon/TOPHAT/

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

4030102910-30347-17928-166-179

Subject: BP photo and First Light App Link
Date: Tue, 08 Jun 2010 23:01:08 +0100
From: Hughes, John D <john.hughes2@bp.com><mailto:john.hughes2@bp.com>
To: Bill.Lehr@noaa.gov<mailto:Bill.Lehr@noaa.gov>

Diameter is 42.00 inches (I asked about the size of the flange.)
I will send some still photos that might assist you in answering the
attached questions.

Regards,
John D Hughes
Install/Comm/Subsea Ops Manager
Thunder Horse/Atlantis

E: john.hughes2@bp.com<mailto:john.hughes2@bp.com> | P: 281-249-7678 | M:
713-480-0148
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Atlantis & Thunder Horse Project Team
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From: Bill Lehr [mailto:Bill.Lehr@noaa.gov]
Sent: Tuesday, June 08, 2010 2:45 PM
To: Hughes, John D

4030102910-30347-17928-166-179

Subject: Fwd: Re: BP photo and First Light App Link

John,

Thanks for sending us the video of the post-cut riser. Could BP help answer the following items?

- 1) Please confirm the dimensions of the flange in the attached image
- 2) Please answer Alberto's questions below.

Thanks,

Bill Lehr

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

Subject: Re: BP photo and First Light App Link

Date: Tue, 08 Jun 2010 11:56:06 -0700

From: Alberto Aliseda <aaliseda@u.washington.edu><
mailto:aaliseda@u.washington.edu>

To: Bill.Lehr@noaa.gov<mailto:Bill.Lehr@noaa.gov>

CC: wereley@purdue.edu<mailto:wereley@purdue.edu> <wereley@purdue.edu><
mailto:wereley@purdue.edu>, James J Riley <rileyj@u.washington.edu><
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Hi Bill, I have been looking at the movie for some time.

There is a very nice section from 14:30:35 to 14:30:37 where the image is fairly still and focused on the riser's exit.

We need to determine the reason for the two "internal compartments" within the riser and why the gas to oil ratio is clearly different in them. This explains the reason for the difference in color in the two leaks from the kinked riser. The one in the center was much darker, similar to the coming out of larger section of the pipe and the one on the left of the images, the one that was impinging on the black auxiliary line, was much lighter.

Hopefully you can get some technical details about the internal build of the riser that can help us make sense of what we are seeing.

Talk to you soon. Best,

Alberto

On Jun 8, 2010, at 11:51 AM, Bill Lehr wrote:

The site below will provide the necessary reader. I will confirm with BP the dimension of the flange for a reference scale.

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

Subject: BP photo and First Light App Link

Date: Tue, 08 Jun 2010 11:34:53 -0700

From: DeAnna Morris <DeAnna.Morris@noaa.gov><
mailto:DeAnna.Morris@noaa.gov>

To: Bill.Lehr@noaa.gov<mailto:Bill.Lehr@noaa.gov>

4030102910-30347-17928-166-179

<http://estore.cineform.com/neoplayer.aspx>

<Picture 2.png>

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