
From: Kerry L. Girlinghouse
Sent: Thursday, April 22, 2010 5:13 PM
To: Roland Gomez
Subject: FW: BP Various Notes / Comments
Attachments: image002.jpg

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From: David W Moody
Sent: Thursday, April 22, 2010 11:34 AM
To: Kerry L. Girlinghouse
Cc: Roland Gomez; Mike Cargol; Christopher J. Murphy; Dicky J. Robichaux; C Scott Jortner
Subject: FW: BP Various Notes / Comments

FYI

David Moody

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From: Freddy L. Gebhardt
Sent: Thursday, April 22, 2010 10:56 AM
To: David W Moody
Cc: David Barnett; Joe Dean Thompson
Subject: BP Various Notes / Comments

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David, I have listed some comments for your review. admittedly I am sure you have thought of these but in the spirit of communication I am listing them for your review.

General

- We need to make sure that we are continuously working to make sure WWCI is taking a lead role with whatever task given to us / the team.
- Finalize all our normal reporting / job documents for this project. Meaning we use our format docs when sending something to the BP team. PM with numbers will be helpful as I would assume that there will be a

massive amount of those docs. Probably set up something designating docs from BP office and docs from the field, just a thought. Tamsah comes to mind in designation on the two phases [offshore and in Cairo]

SSBOP Intervention

- Share whatever experiences we have with not only the ROV ops but all aspects of SS cutting ops. Believe this is where WWCI Marine will be able to add value to the team, actually I should say one of many areas to add value.
- When / if we need to cut the riser to release the rig it was discussed to use the diamond wire cutting equipment. when working through this option we should consider three things and they are;
 - 1) the well has a high volume flow and what impact will that have in trying to convey the wire thru the ID of the riser? It could possibly sever the wire due to the internal flow.
 - 2) Using the diamond wire I fear it may be severed when the riser is almost severed thus pinching the wire.
 - 3) The high flow of oil may act as a lubricant thus lowering the cutting ability of the wire. We witnessed this in the Kuwait fires in 1991 but admittedly we weren't using diamond wire just sand line or cable.
- Probably need to look at other cutting options such as abrasive cutter or other tools that cut around the OD of the riser.
- I think explosives should be looked at as well. Using liner shape charges would make the cut quickly and of course be done remotely. Admittedly we haven't used explosives in some time but there are still applications for it and these may be one.

Relief Well

- Working with Bob Grace is a little bit cumbersome in that we typically work along with these projects. however Bob is a nice enough man and we must figure out how to make sure that we [collectively] provide BP with a sound RW plan as well as all other items needed to complete the task. It seems that a lot of topics must be worked and the actual RW design is just one of many topics. some of the other items are; kill spread, BOP design [for kill], dynamic kill modeling, just to name a few.
- Yesterday the Mark asked Bob where he wanted the placement of the RW and he said 1,500 ft. Mark also asked what kind of well design did Bob want and he confirmed it would be just like the original well. Both these responses might be correct but not sure they can be simply thrown on the table late yesterday as fact, my comments on these subjects are below.
- Not sure the depth of the well but if it's fairly deep [which I think it is] then VMI tools may not work due to temperature limitations.
- Is it necessary to drill the well to original TD or is there a formation at some point above that is conducive to making our final ranging runs for cutting into the well in question / direct interception.
- If the above is a possibility then we must have some idea of what the kill rate will be. Probably need to have BP reconfirm the 160MN/SCF and 50K oil/ day flow rate.
- If the above is doable, what time savings could that lend to actually stopping the flow vs. drilling a RW to original TD

Again just some thoughts and had and again while it is cumbersome for us to work with Bob on the RW phase. However, I want to make sure that WWCI stays VERY imbedded in that project and have the opportunity to have say in all aspects of the job. Best I can tell BP has asked WWCI and BG to work together on the RW and with our vast amount of experience we should be able to add a lot to the RW effort.

Of course I am always available to assist you guys in any way.

Good luck,

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