

From: Mazzella, Mark
Sent: Wed May 05 18:18:22 2010
To: Dupree, James H
Cc: Patteson, Mark R
Subject: Junk-shot Peer Review
Importance: Normal
Attachments: Terms-of-Reference -Junk-shot, Bullhead and Momentum Kill Peer Review Final.doc

As requested, please find the attached subject TOR. Once agreed upon, please forward your approval for communication to the relevant team participants. If you have any questions please feel free to contact me directly.

Regards,

Mark Mazzella

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Junk-shot, Bullhead and Momentum Kill Peer Review

Terms of Reference



The purpose of this document is to briefly describe a proposed Assistance Team to peer review program(s) in support of the above titled objectives, which will provide synergy between industry expertise and operational teams and reduce reactive risks.

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|---------------------|---|
| Project Description | <p>Junk-shot, Bullhead and Momentum Kill Peer Review - Participate in an overview of presented information and resources required for successful implementation of titled objectives and to assist with the identification of risks associated with prescribed program. Additionally, identify any support or considerations which may be required. Provide constructive feedback to BP through an engaged participation with industry experts assembled from various well control points of view.</p> |
| Scope | <p>Function - Assembly of a multi disciplined team to review an assimilation of information in support of the Project Description. The Peer Review Team will assist with identification of resources and programs required to progress successful completion of the titled program. This information will be collected and communicated to BP leadership and planning teams.</p> <p>Using these resources will facilitate:</p> <ul style="list-style-type: none"> ✓ Clarity of potential leak paths ✓ Understanding of delivery system ✓ Pumping materials and fluids ✓ Placement methodology ✓ Contingencies ✓ Risks ✓ Mitigations ✓ Next steps ✓ Testing and assurance ✓ Equipment requirements <p>The combined efforts of the (peer review team) will identify and communicate success and failure conditions, risks and steps to mitigate.</p> |
| Value of Success | <p>Collective effort of industry experience with direct knowledge of program initiatives.</p> <p>An assurance this program will not make well conditions worse thus causing harm to people additional damage to the environment or an inability to carry out additional remediation programs.</p> <p>The greater gain may be realized in sharing resource knowledge, collaboration using best practices, and ultimately standardized practices and systems to facilitate mitigation of any risk.</p> <p>Provide assurance to BP that this program is properly designed and planned using best in class engineering, materials and expertise.</p> |
| Sponsor Needs | <p>Assurance – Agreed areas of synergy are being fulfilled with the review of this program thus leveraging combined resources to achieve successful control of the MC 252 well control event.</p> <p>Guidance – Execution methodology and way forward.</p> <p>Risk – Identification of issues which will jeopardize additional remediation programs.</p> <p>Operational Alignment – Contingent with the implementation of this program several considerations must be addressed to ensure well control success. While maintaining the objectives of this well control effort and with complete interaction with the on going initiatives currently developing, considerations must be aligned to ensure synergy throughout the well control remediation programs. I.e. containment operations, relief well.</p> |

Junk-shot, Bullhead and Momentum Kill Peer Review

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| <p>Key Participants</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">BP</th> <th style="width: 50%; text-align: center;">Industry Experts</th> </tr> </thead> <tbody> <tr><td>Mark Patteson - BP</td><td>Danny Clayton - Boot & Coots</td></tr> <tr><td>Mark Mazzella - BP</td><td>Bud Curtis - Boots & Coots</td></tr> <tr><td>Charlie Holt - BP</td><td>Chris Scarbrough - Boots& Coots</td></tr> <tr><td>Bill Kirton - BP</td><td>Paul Saulnier - Cudd Well Control</td></tr> <tr><td>Mike Cleary - BP</td><td>Tim Bell - Cudd Well Control</td></tr> <tr><td>Jon Sprague - BP</td><td>Steve Winters - Great White Well Control</td></tr> <tr><td>Phil Pattillo - BP</td><td>Ronnie Roles - Great White Well Control</td></tr> <tr><td>Mike Cushman - BP</td><td>Dr. John Smith - LSU</td></tr> <tr><td>Gary Wolf - BP</td><td>Dr. Tad Patzek - UT</td></tr> <tr><td></td><td>Dr. Steven Holditch - T A&M</td></tr> <tr><td></td><td>Neal Adams - Well Control Specialist</td></tr> <tr><td></td><td>Preston Moore - Well Control Expert</td></tr> <tr><td></td><td>Bill Muchison - Murchison Drilling</td></tr> <tr><td></td><td>Paul Sonnemann - Chevron</td></tr> <tr><td></td><td>David Moody - Wild Well Control</td></tr> <tr><td></td><td>Pat Campbell - Wild Well Control</td></tr> <tr><td></td><td>Bobby Hohon - Exxon Mobil</td></tr> <tr><td></td><td>Ted Bourgoyne - LSU Alumni</td></tr> <tr><td></td><td>Albertok Cavawni - EMI</td></tr> <tr><td></td><td>Les Skinner - Shell (Pending)</td></tr> </tbody> </table> | BP | Industry Experts | Mark Patteson - BP | Danny Clayton - Boot & Coots | Mark Mazzella - BP | Bud Curtis - Boots & Coots | Charlie Holt - BP | Chris Scarbrough - Boots& Coots | Bill Kirton - BP | Paul Saulnier - Cudd Well Control | Mike Cleary - BP | Tim Bell - Cudd Well Control | Jon Sprague - BP | Steve Winters - Great White Well Control | Phil Pattillo - BP | Ronnie Roles - Great White Well Control | Mike Cushman - BP | Dr. John Smith - LSU | Gary Wolf - BP | Dr. Tad Patzek - UT | | Dr. Steven Holditch - T A&M | | Neal Adams - Well Control Specialist | | Preston Moore - Well Control Expert | | Bill Muchison - Murchison Drilling | | Paul Sonnemann - Chevron | | David Moody - Wild Well Control | | Pat Campbell - Wild Well Control | | Bobby Hohon - Exxon Mobil | | Ted Bourgoyne - LSU Alumni | | Albertok Cavawni - EMI | | Les Skinner - Shell (Pending) |
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| Mark Patteson - BP | Danny Clayton - Boot & Coots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mark Mazzella - BP | Bud Curtis - Boots & Coots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charlie Holt - BP | Chris Scarbrough - Boots& Coots | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bill Kirton - BP | Paul Saulnier - Cudd Well Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mike Cleary - BP | Tim Bell - Cudd Well Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jon Sprague - BP | Steve Winters - Great White Well Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phil Pattillo - BP | Ronnie Roles - Great White Well Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mike Cushman - BP | Dr. John Smith - LSU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gary Wolf - BP | Dr. Tad Patzek - UT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dr. Steven Holditch - T A&M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Neal Adams - Well Control Specialist | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Preston Moore - Well Control Expert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bill Muchison - Murchison Drilling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Paul Sonnemann - Chevron | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | David Moody - Wild Well Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pat Campbell - Wild Well Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bobby Hohon - Exxon Mobil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | Albertok Cavawni - EMI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Les Skinner - Shell (Pending) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>High Level Risks (Those risks that could directly impact well control success)</p> | <p>Broaching – Encroachment of effluent plume originating from various positions of the seabed to surface locations of relief wells. Direct hazards to rig personnel and objective success.</p> <p>Subsurface – Relief well interference. Formation instability and control issues at the 22” (18” csg) hole section.</p> <p>Equipment Failure – Over pressurization of ancillary equipment due to subsequent plugging of additional lower pressure rated equipment. Plugging of delivery systems and hydrates.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |