From: Yeilding, Cindy
Sent: Fri May 21 22:15:32 2010
To: Yeilding, Cindy; Rainey, David I; Thorseth, Jay C; Walz, Gregory S; Chester, Doug K; Grant, James R; Zwart, Peter A
Cc: Vinson, Graham (Pinky); Walton, Gene; Ritchie, Bryan; Sprague, Jonathan D; O'Bryan, Patrick L; Sims, David C; Frazelle, Andrew E; MC252_Email_Retention@bp.com.; Baker, Kate H (UNKNOWN BUSINESS PARTNER); Peijs, Jasper
Subject: INFO: Objectives and Delivery, MC 252 (Macondo), May 18th-21th, 2010
Importance: Normal
Attachments: 100518_Macondo_M56_sands_identi (3).pdf; MC 252 GoR scenarios 5 21 10v5.doc; MC252#1_#1BP1_Isotubes.ppt; 5MBD Case Base at 3500psi.PPT; Macondo Technical Note - SIWHP Range and Probs vC (2).doc; Macondo_Sands_Crossflow.pdf; Node_Passive_Memo2_Vn2.doc; Seismic_Imaging_Oil_Plumes.ZIP; Reflectionswithinthewater.ZIP; Jens_plumes.jpg; PID985675.pdf

Dear all,
MC 252 Relief wells: RX-C (DDIII, MC 252-3): Bryan Ritchie

- Underream, then drill to 10,000'. Next: set 18" liner

RxD Well, DDII , MC 252-2: Gene Walton

- Drill to 6750'. Next: Set 28" casing

Relief wells:

- Integration: Decision space integration tool built (P. Johnston)
- Headspace gas geochemical monitoring and analysis: methods being finalized (P-A Depret)

Noise Logging, Relief wells (R. Wydrinski, B. Hornby, A. Hill)

- Relief well noise logging identified as a potential technique to determine whether flow continues in original borehole post-top kill as relief well approached T.D.
- Noise log inside the 9 7/8" casing would be a valid approach
- Investigating (initially through Halliburton) including this in relief well logging programs

Subsurface Analysis:

- Session with K. Baker to discuss mapping needs 1). in support of well kill operations (reservoir sands, shallow sand: by Tuesday, 5/25) and more comprehensive post-well documentation and report (timing: when appropriate). Draft document being compiled by Ritchie et. al.
- Sand zones in MC 252-1 well documented (updated, attached)

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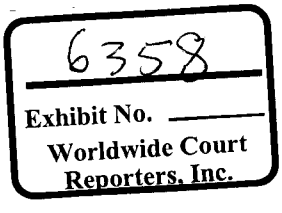
Macondo Fluids: (K. McAughan, D. Kercho)



- PVT reports received from both Pencor and Schlumberger
- Provided D. Rainey with oil and gas volumes at mudline vs. water surface (oil contain 870 scf/stb with a volume factor of 1.4 bbl/stb +/- 0.1)
- Provided P. Zwart with final fluids report for Anadarko
- Fingerprinting confirmed oil in the water matched M56D and M56E fluids in MC 252-1 well

Produced oil (Enterprise) GoR: D. Kercho, K. McAughan, EPTG team

- As per request from D. Rainey, described and documented scenarios for higher GoR oil; most recent version of document attached:

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- Proceeding with gas and oil sampling from Enterprise (D. Grass, K. McAughan)

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- Updated 5000k/day with updated pressures as per request of J. Peijs

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Shut In Well Head Pressure (D. Kercho, K. McAughan, R. Merrill, M. Mason and EPTG team members)

- Joint EPTG/GoMX team study of SIWHP, including the generation of a SIWHP probability curve at request of K. Baker (current draft, R. Merrill et al., attached)

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- Cross flow modeling work underway

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Passive Seismic Monitoring: A. Hill

- Based on selection of Top Kill rather than Junk kill, a second decision memorandum has been drafted (below)
- Scope of work currently being drafted

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- Decision expected 5/21/10

Imaging of Water Column plumes: A. Hill

Approach 1: Deep Seismic

- Investigating acquisition methods to define reflectivity in the water column
- A. Hill Requested and have now received a white paper on proposal and process from S. Holbrook, U. of Wyoming (attached)

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- Difficulty will be in securing a vessel, permitting, MMO's.

Future plans: continue to study, potential to add on to 2D seismic through well when site clears.

Approach 2: Swath Bathymetry

Define the reflectivity in the water column using high frequency multi beam bathymetry to visualize plumes subsea in 3D .

- Proposal from IVS (Fledermaus) and U. of New Hampshire.
- The approach has been successful at imaging seepage plumes in the past.

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- Potential vessel from C&C Technologies, possibly available Friday. C&C compiling work scope and suggested program.
- Program does not require permits, and lack of towed equipment simplifies this approach

Future plans: await technical proposal and decide Friday, 5/21 on sea trials.

Gas Hydrate Blowout Cause: A. Hill

- Technical rebuttal (in preparation) against to claims by Professor Robert Bea that the initial methane bubble in the blowout originated from drilling into methane hydrates.

Future plans: complete and circulate draft for comment.

Monitoring and mapping project with a group of Australian scientists from CSIRO: P. Carragher

Macondo Sand Identification

5/18/2010 bp Gulf of Mexico SPU