

From: Morten Haug Emilsen
Sent: Fri May 21 23:53:19 2010
To: Corser, Kent
Subject: dynamic kill slide pack
Importance: Normal
Attachments: image001.jpg; DynamicModeling.ppt; add_wellflow_Deepwater_Horizon.doc

Kent,

Please find enclosed two files:

- DynamicModeling.ppt (proposed summary slides)
- add_wellflow_Deepwater_Horizon.doc (working document reporting my work)

Best regards,

cid:3310015153_18375562

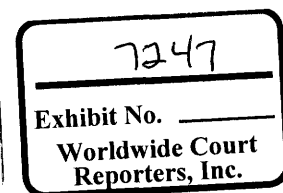
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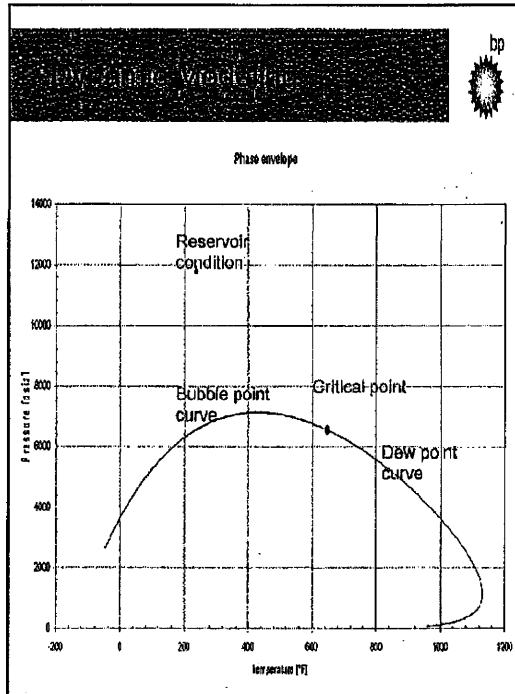
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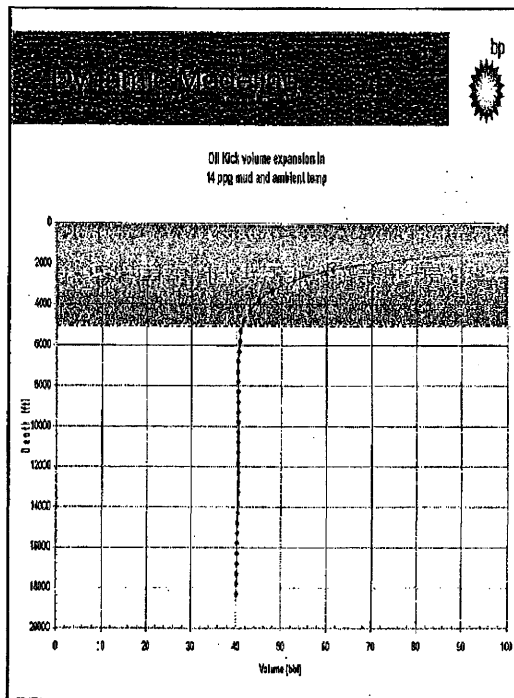
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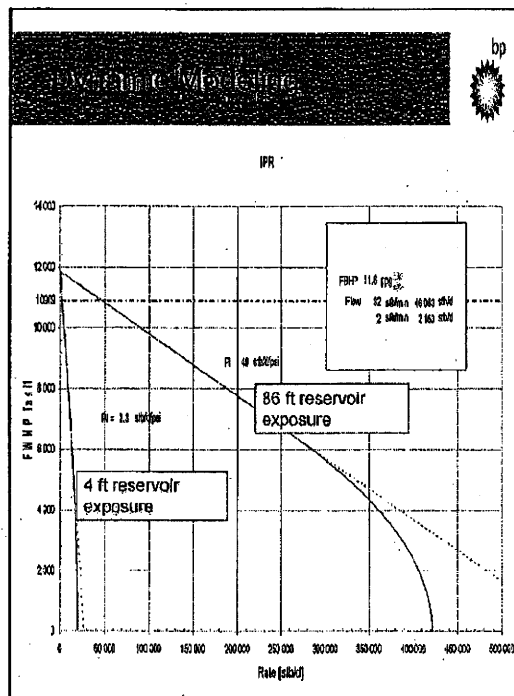


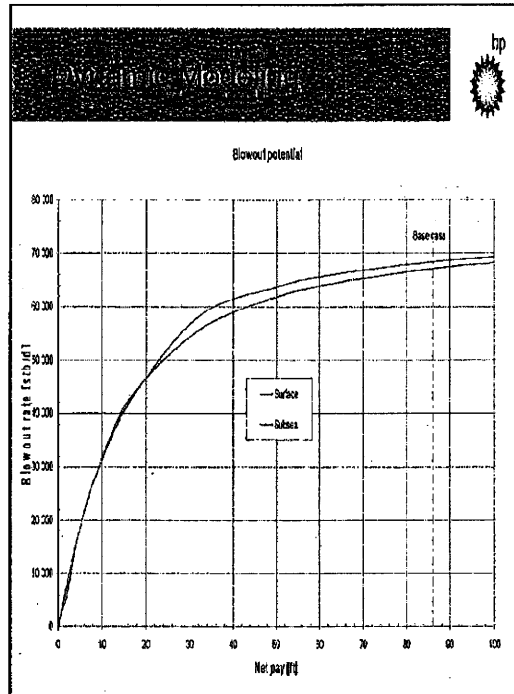


- Undersaturated oil, bubblepoint pressure is 6500 psi and GOR is 2800 scf/stb
- No gas before pressure is reduced below bubble point curve
- The volume of a potential kick is constant when migrated through mud to mudline
- Very prolific reservoir, 49 stb/d/psi drawdown. Blowout potential 70 000 stb/d











- Two potential flow paths
 - Through the casing shoe
 - Through annulus and leak in seal assembly
- If the majority of the reported gains are due to a leaking annular preventer, the most likely flow path is through the casing shoe
- The underbalance in the outer annular is not sufficient to reproduce the unloading



- The next slides shows the unloading of the wellbore assuming flow from the 12.6 ppg sand through the shoe

