

From: Corser, Kent
Sent: Sat Jun 26 13:44:39 2010
To: Morten Haug Emilsen; Corser, Kent
Subject: RE: ACTION - Dynamic Simulation Report
Importance: Normal

I guess what I am trying to understand is could this sand have started the flow or pressure in the annulus. Some of the new work done by stress is showing as low as 200 psi could have caused lift off of the seal assy. This would have caused a pressure up/bled/ seal pressure up/bled seal until a larger volume of gas was in the back side. Would the model change or match that type of scenario?

Kent Corser
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From: Morten Haug Emilsen [mailto:Morten.Haug.Emilsen@addenergy.no]
Sent: Saturday, June 26, 2010 8:39 AM
To: Corser, Kent
Subject: Re: ACTION - Dynamic Simulation Report

Kent,

Do not think this will change the picture wrt. the unloading and flow path. A small influx could have been taken from this sand, but the unloading is caused by the oil sands (supported by initial visual observations of the blowout). Also, no gain were reported during initial bleed downs, to 250 psi and 0 psi respectively where this sand should experience a significant draw down.

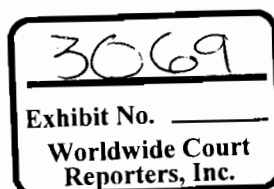
I'm enjoying relaxing days in Cannes. My colleague Ole Rygg is with the response team right now.

Sent from my iPad

On 25. juni 2010, at 21.15, "Corser, Kent" <Kent.Corser@bp.com> wrote:

This sand is new. They did a new study and have classified it a gas bearing and capable of flow. See attached chart. This is NOT the brine sand.

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AE-HZN-2179MDL00154780

Would this change the best fit for flow (shoe vs annulus).?

You working across the street?

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From: Morten Haug Emilsen [mailto:Morten.Haug.Emilsen@addenergy.no]
Sent: Friday, June 25, 2010 1:37 PM
To: Corser, Kent
Subject: Re: ACTION - Dynamic Simulation Report

Kent,

Remember some initial discussions we had on this stringer. The reservoir engineer claimed it could not flow. If it can, it is possible that an influx could be taken from this zone also before the negative test as it is above or at balance with the 14 ppg mud in the hole. Do not really think this will change the picture much with respect to the circulation and unloading sequence as the productivity of this zone is very poor compared to the oil sand. Including this sand will most likely have a very minor effect to the simulation results. We know that oil was flowing initially and we know that we were underbalanced, also to the 12.6 ppg sand during the negative test without taking any gains.

Best regards,
Morten

Sent from my iPad

On 25. juni 2010, at 19.03, "Corser, Kent" < Kent.Corser@bp.com> wrote:

Morten,

We need some help with an update on the dynamic model. Are you available now or is there someone else who could run the model? We have a sand at 17,467' MD that is 2' thick 14.1 ppg and classified as GAS and would flow. Want to see how that fits to at least start the kick.

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From: Morten Haug Emilsen [mailto:Morten.Haug.Emilsen@addenergy.no]
Sent: Thursday, June 10, 2010 7:40 AM
To: Corser, Kent
Subject: RE: Dynamic Simulation Report

Got ya,

5.5 times higher volume at 1100 psi than downhole.

Regards
Morten

From: Corser, Kent [mailto:Kent.Corser@bp.com]
Sent: 10. juni 2010 14:34
To: Morten Haug Emilsen
Subject: RE: Dynamic Simulation Report

The actual N2 is 53 bbls at 1100 psi. This was injected at surface. Per CSI it is around 8-10 bbls down hole.

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From: Morten Haug Emilsen [mailto:Morten.Haug.Emilsen@addenergy.no]
Sent: Thursday, June 10, 2010 7:31 AM
To: Corser, Kent
Subject: RE: Dynamic Simulation Report

Kent,

Just to clarify, 60 bbl at surface (1 atm) would be approximately 400 times less in volume down hole.
Hence 60 bbl at surface would only be 0.15 bbl at downhole conditions.

Best regards

<image001.jpg>

Morten Haug Emilsen
Senior Petroleum Engineer

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From: Corser, Kent [mailto:Kent.Corser@bp.com]
Sent: 10. juni 2010 00:16
To: Corser, Kent; Morten Haug Emilsen
Subject: RE: Dynamic Simulation Report

Morton - Also would like to model N2 breakout at TD. If I had 60 bbls at surface the down hole volume would be about 10 bbls. Given this can you create chart that would show pressure increase as N2 rises vs time?

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From: Corser, Kent
Sent: Wednesday, June 09, 2010 1:08 PM
To: 'Morten Haug Emilsen'
Subject: RE: Dynamic Simulation Report

Morten - hope the vacation is going well. A few questions. Based on your model. When would (time) expect the hydrocarbons to reach the well head/BOP. We are trying to get an idea of when it was too late to recover from a shut in.

Are you sure the bled down from 21:36 to 21:38 is at the surface? If we had gas at the BOP and annular leaked would you not see that drop?

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From: Morten Haug Emilsen [mailto:Morten.Haug.Emilsen@addenergy.no]
Sent: Wednesday, June 02, 2010 5:11 PM
To: Corser, Kent
Subject: Dynamic Simulation Report

Kent,

It has been a pleasure working for you, your team and the rest of the Investigation Group.
Keep up with the good work, but do not forget to tell some jokes in-between ;-)
I like your sense of humor, and I'm confident that the other guys here do agree.

Should there be any questions, do not hesitate to send me an email or give me a ring
(be aware of the time difference, Cannes is 7 hours ahead ;-)

I believe I'll be back during the summer as we also are involved in the Relief Well Kill team.
See you then.

Talk to you later,
Morten
Best regards,

<image001.jpg>

Morten Haug Emilsen
Senior Petroleum Engineer

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<MC252-1 Sand Description v2.xls>