

From: Mix, Kurt <Kurt.Mix@bp.com>
Sent: Sunday, May 02, 2010 3:41 PM
To: Kercho, Debbie A
Cc: Levitan, Michael M.; Mazzella, Mark; David Barnett; cleach@argonenergy.com; Reeves, T Brent (TRI-CITY SERVICES)
Subject: RE: Preliminary Compositional & Viscosity Data

Debbie,

Please supply Mark Mazzella a decline curve and a buildup schedule. Another question came up: can we assume injection will be equivalent to PI? If not what can we assume to be a reasonable relationship between injection pressure and injection rate into the reservoir?

Regards,

Kurt

From: Kercho, Debbie A
Sent: Sunday, May 02, 2010 1:09 PM
To: Mix, Kurt
Subject: FW: Preliminary Compositional & Viscosity Data

Fyi - Levitan is the PTA guru in BP. See his comment below. We'll model it tomorrow, but we're not going to be able to provide enough cushion to help much.

From: Levitan, Michael M.
Sent: Sunday, May 02, 2010 12:45 PM
To: Kercho, Debbie A; Epps, David S; McAughan, Kelly
Cc: Bozeman, Walt
Subject: RE: Preliminary Compositional & Viscosity Data

Debbie,

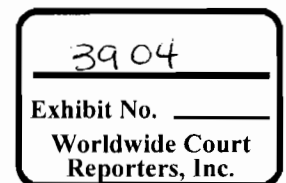
You are correct. I would add that 90% of the drawdown will be recovered within 2 hours after the well is shut in.

Michael

From: Kercho, Debbie A
Sent: Sunday, May 02, 2010 12:37 PM
To: Epps, David S; McAughan, Kelly; Levitan, Michael M.
Cc: Bozeman, Walt
Subject: RE: Preliminary Compositional & Viscosity Data

I talked to Kurt and got more clarity on what he was looking for. They're evaluating putting another BOP on top of the current BOP. When they shut the second BOP, they're getting close to the burst pressure of the 16" casing. He wanted to know if the reservoir would provide any cushion due to depletion or buildup time. We talked through it and my opinion is that there are so many uncertainties that I don't think we can bank on much depletion yet and at 300 md, I think most of the buildup time would be < 1 day, not weeks. If the skin is high, it could be very quick.

Let me know if you have a different opinion. Based on the feedback I gave him, he said we could wait until Monday to look at this. The numbers he suggested using were 50 mbopd for the first 2 days and 5000 bopd since then.



Debbie
713-471-4221

From: Mix, Kurt
Sent: Sunday, May 02, 2010 10:12 AM
To: Kercho, Debbie A
Cc: Epps, David S
Subject: RE: Preliminary Compositional & Viscosity Data

Debbie,

The well control guys have a question on the near wellbore drawdown due to current extended flow period. The amount it was drawn down will impact the initial shut in wellhead pressure. They also want to know how long it will take to build back up the original shut in pressure.

Regards,

Kurt Mix

From: Kercho, Debbie A
Sent: Tuesday, April 27, 2010 4:15 PM
To: Mix, Kurt
Cc: Epps, David S; Bozeman, Walt
Subject: Preliminary Compositional & Viscosity Data

Kurt,

Per your request, here's the compositional and viscosity data that we have to date. This spreadsheet is a preliminary set of atmospheric flash compositions for the 3 downhole samples. Quoting Pencor's Jason LeBlanc, "...they should give us a good starting point for correlations." This data is the best we have now, but will change slightly with time as the rigorous analytical work proceeds. Sample 18086 appears to have slight mud contamination as evidenced by the elevated C16 & C18, so we'd suggest that you use either of the other samples.

<< File: 36126 Preliminary Wellstream.xls >>

Also attached is the preliminary viscosity data. The measured value of 0.168 cP is consistent with the 0.17 cP we used in yesterday's WCD modeling for the relief well. Again, this is preliminary data that hasn't been QC'd. The other piece of data that we've received verbally is the measured bubble point is ~6550 psig.

<< Message: RE: Viscosity Measurements >>

Please let us know if you have any questions.
Debbie