

From: William Burch
Sent: Sunday, May 16, 2010 11:35 AM
To: Mix, Kurt
Cc: Ole B. Rygg
Subject: Re: KWM required to kill a flow from the blowout in each hole section

Kurt,

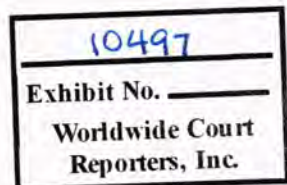
Flowing bottom hole pressures will vary obviously as a function of flow rate but only Ole can model the low/high choke case (the original case was 38,300 bopd in OPGA-WellKill). Shut in pressures don't vary as a function of flow rate (obviously.)

Is the question then: how does flowing bottom hole pressure risk exceeding FG in low/high choke cases?

Sent from my iPhone

On May 16, 2010, at 11:26 AM, "Mix, Kurt" <Kurt.Mix@bp.com> wrote:

> let's re-do it at 5000, 10000 & 25000 bopd rate
>
>
> From: William Burch [mailto:wburch@wildwell.com]
> Sent: Monday, May 10, 2010 6:54 PM
> To: Mix, Kurt
> Subject: KWM required to kill a flow from the blowout in each hole
> section
>
> Kurt,
>
> Maybe I'm still lost as to your request.
>
> [cid:671342716@16052010-24A7]
>
> If you look at the flowing bottom hole pressure (thanks to Ole for
> exporting his pressure profile from the 38,300 bopd simulation with
> 3,800 psi FWHP), you're never above FG on the relief well design unl
> ess you are shallower than the 22" casing point.
>
> Now, if you shut in the well with the 5.3 ppg average oil gradient
> from the original reservoir pressure, you'll exceed FG between the 1
> 4" and the 11-7/8" casing shoes depending on which FG line you choose.
>
> I hope this is what you were looking for.
>
> William Burch
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> Difference"
>



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