

**From:** Ole B. Rygg [mailto:Ole.Rygg@addenergy.no]  
**Sent:** 16 May 2010 17:26  
**To:** Hill, Trevor  
**Cc:** Mix, Kurt; Thomas Selbekk  
**Subject:** RE: Pressure build-up

Be aware that we are working on the 5000 bopd case. That could be too optimistic.

I am currently working on bullheading modelling for the top kill option.

Please give me a call if you want to discuss. I have a local cell phone number: 409 392 3095

Regards, Ole

cid:3310015153\_18375562

**Dr. Ole B. Rygg**  
Managing Director, add wellflow as  
Vice President, Drilling & Production, add energy group

As you can see (shut-in presentation), the last reduction in pressure drop at the wellhead (Yesterday), will give more gas in the well and an increased gas cushion during shut-in. UNLESS, the reduction in wellhead pressure is due to an increased flow rate and the restrictions at the wellhead is giving away. This means a large hole in the BOP stack and less chance of ever being able to do a dynamic top kill, since the required rate through the stack to achieve the required pressure drop is too high.

Be aware that we are working on the 5000 bopd case. That could be too optimistic.

I am currently working on bullheading modelling for the top kill option.

CONFIDENTIAL

BP-HZN-2179MDL04883028  
BPD344-053460

TREX 009250.0002

CONFIDENTIAL

BP-HZN-2179MDL04883029  
BPD344-053461

TREX 009250.0003