

From: David S. Decroix
 To: wdg@lmi.gov
 Cc: amol@lmi.gov; Neu, Mary P.; Decroix, David S.; Zyzanski, George A.; Black, Stephen J.; dgon@lmi.gov
 Sent: 5/21/2010 7:56:16 PM
 Subject: Re: Fwd: Further on the NRC Flow Rate Working Group and their request for lab support

Hi Scott,

Col (or'd here) has been engaged on whether or not we should be involved with the DOT request, so I'm not sure if we (LANL) want to engage with NETL on this or not. Please check with him.

That said, briefly here is what Andy and I talked about...

One of the unresolved issues has to do with the coupling of the reservoir flow to the well bore annular flow. We know the pressure, temperature, and EOS of the fluid, but there are many complexities in describing the flow from the reservoir to the bottom of the well bore.

In a telcon with Jeff yesterday afternoon, they have modeled the reservoir

But, as stated below, there is A LOT that is unknown about the state of the well bore completion zone, so I don't know if it is that useful to embark upon this type of modeling effort. Large uncertainty exists with what data is available, and thus calculations/models could vary widely. I don't know how much added value we could contribute here. As BP has said many times, "I can see as far down the well hole as you can..."

Hope this helps,
 Dave.

Hope this helps.
 Dave.

p.s. I can be reached best by paper today, 505-948-0028. D.

> Dave
 > You may want to tell Scott about our discussions to couple a reservoir model (Zyzanski) with the well-bore flow folks (you, Ammerman). A multi-lab collab could easily come together.
 >
 > -----
 > Andrew Weissberg (from my Blackberry)
 > amol@lmi.gov
 > 408-687-3585 (office)
 > 505-699-0995 (mobile)
 >

HIGHLY CONFIDENTIAL AND MAY CONTAIN CU - SEE PTO #50



ADX007-0002502

TREX 009710.0001