

9446
Exhibit No. _____
Worldwide Court
Reporters, Inc.

From: Lockett, Tim
Sent: Mon May 03 17:18:07 2010
To: Hill, Trevor
Subject: Best estimate
Importance: Normal
Attachments: Flow estimation.ZIP

Trevor

Some of the data from Ian's model has been updated (fluid model, completion below the end of the drill string) so I re-ran the cases to generate the attached xls which then uses that data to give a flowrate estimate as a function of pressure at the BOP, temperature at the BOP and D/s of the crimp, and velocity of either liquid or mixed phase in the riser - which is currently 19.5 inch ID in the model.

<<...>>

- The velocity is very dependent on the riser ID being correct, and the hold-up, but is probably the best line of estimation if we can measure the transport of a dispersion pulse and get gamma to clarify the hold-up.
- The temperature is dependent on the U-value assumed for the tubing.
- The pressure is dependent on the assumed PI of the formation.

Best regards

Tim

Tim Lockett

Flow Assurance Engineer

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