

For Official Use Only

Where did the mud flow?

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- **We were provided data for a single kill operation on 5/28/2010**
 - We desire to determine where the 9800 barrels of mud went
 - Based on transient pressures measurements
 - Consistent with visual observations
- **Unknowns complicate the analysis**
 - What was the initial condition of the well
 - What fluid initially resides in each well bore volume (especially important for transient kill analysis)
 - What flow paths are available to the mud
 - What is the condition of the various (Hanger, BOP, cement, etc.) seals