MC 252 Junk Shot Peer Assist – 6 May 2010
Report of Findings – Executive Summary

bp

Top Ten Findings

1. While no technical "show stoppers" were identified, significant risk is present and more diagnostic work and consequence assessment is needed before pulling the trigger on the junk shot option.
   - Need to understand the restrictions and flow paths (is casing across rams?)
   - Pressure measurements (injectivity test, hot tap etc.)
   - Dye/Styrofoam and speed of visibility
   - Open/close bottom rams and check operating pressure (may indicate well pressure)
2. Develop a comprehensive understanding of the knock on risk of successfully plugging the well (engineering analysis required)
   - potential breach – burst risks, shallow sand, shoe integrity etc.
   - loss of riser integrity
3. Junk shots are often not successful (need more than 2 shots)
   - Devise a method for subsea reloading
   - Add more barrels in the existing manifold
   - Consider onshore testing of "junk shot light" (pump from Q4000 and use if successful plug starts to give way while killing)
   - Consider optimal junk shot material (reactive pills that meet in BOP, pressure and temperature considerations, shelf life, encapsulating method, Cameron Stiff packing etc.)
4. Consider how to best utilize C&K lines
   - Secuential vs simultaneous injection

   - loss of riser integrity
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8. Coesider advantages of dual conduit approach for access to BOP
   - Coiled Tubing
9. Flow back through Choke and Kill lines
   - Coffer dam or surface facility
10. Participants believe they can provide additional support, but are looking for more data for engineering analysis.