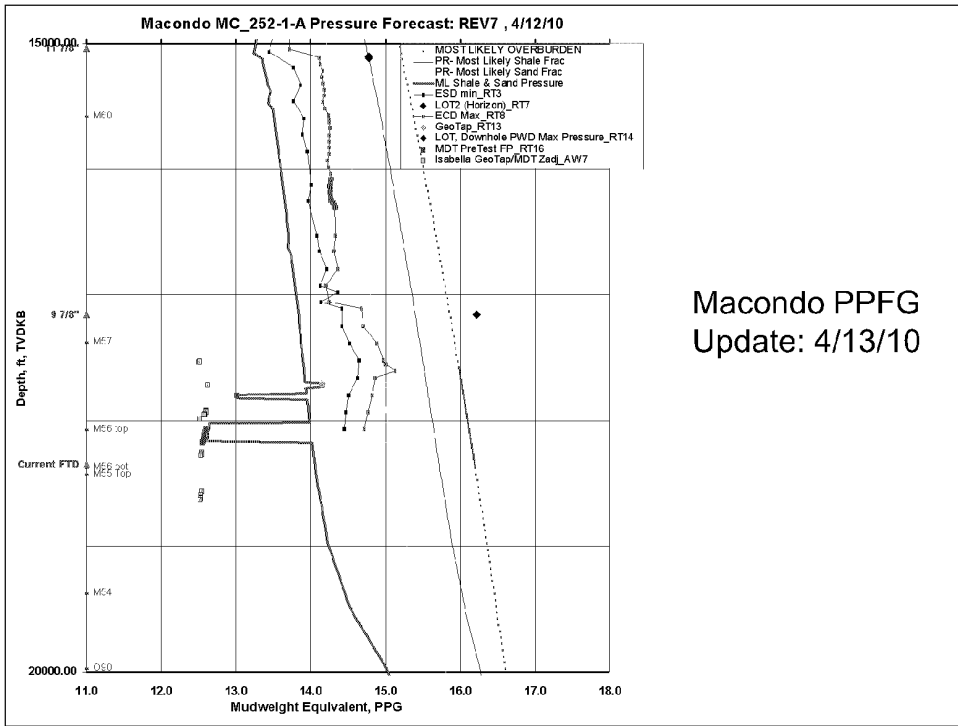
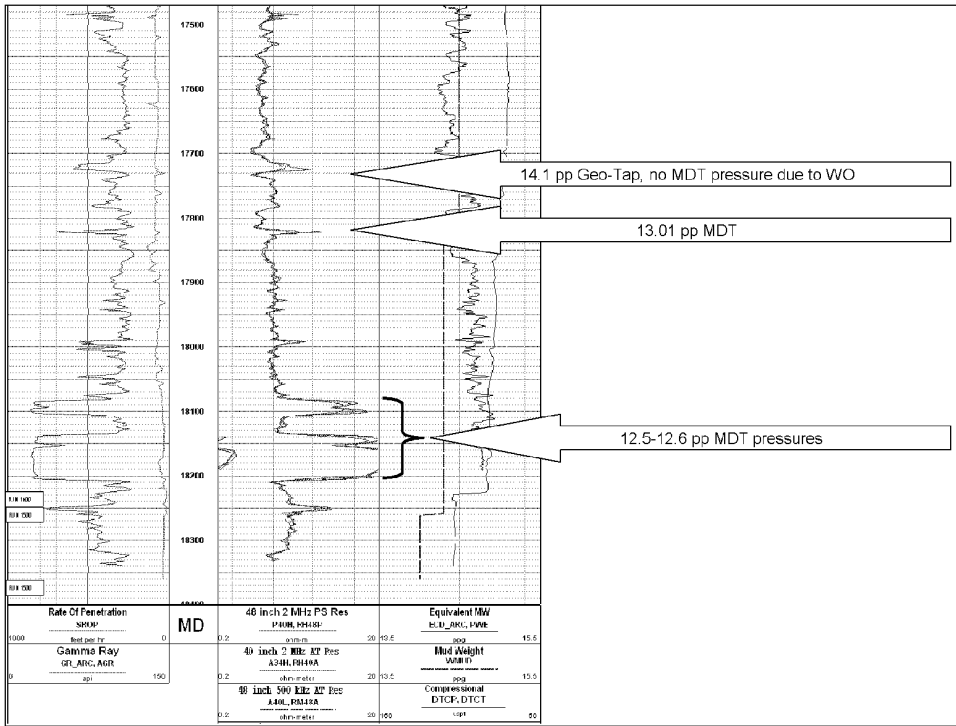


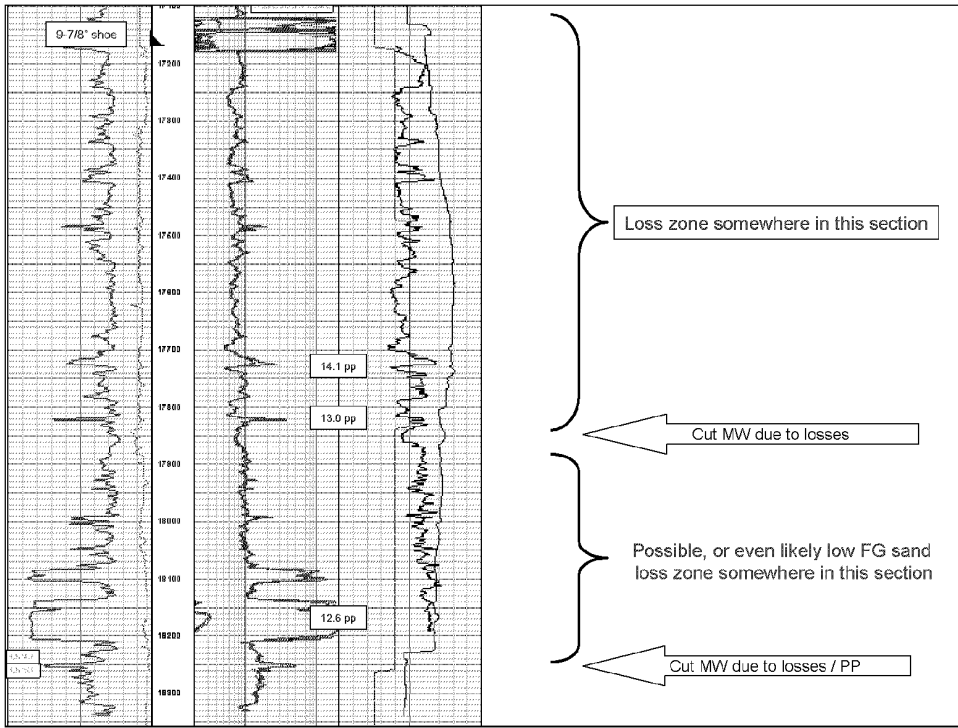


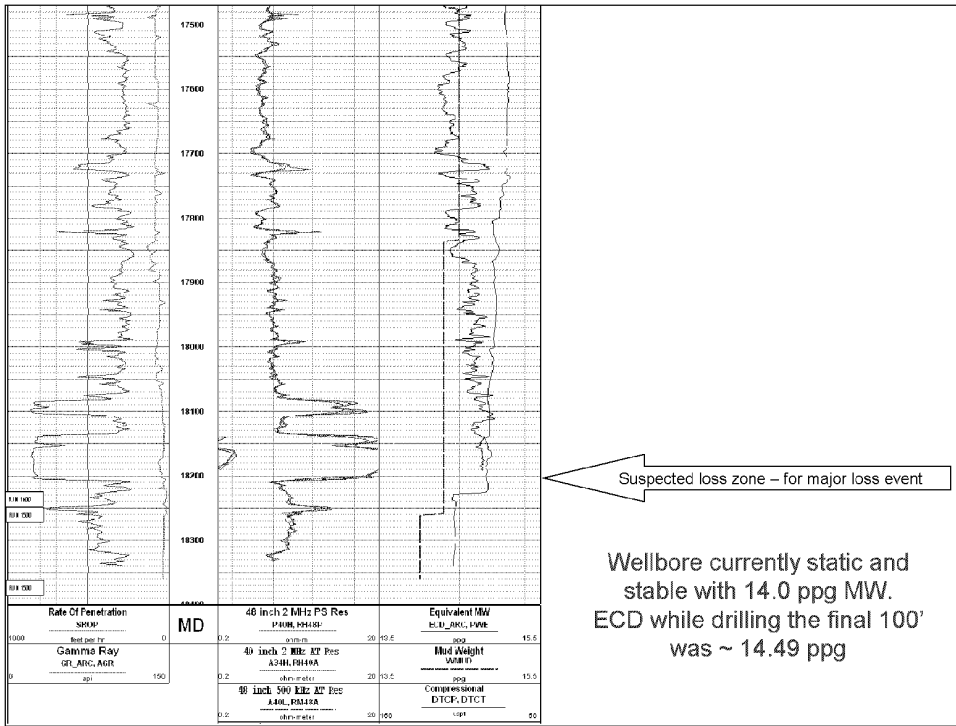
MO 252 #1 (Macondo):

TD Forward Plan Review: Production Casing & TA options









Suspected loss zone – for major loss event

Wellbore currently static and stable with 14.0 ppg MW. ECD while drilling the final 100' was ~ 14.49 ppg

"Keeper Well" options:



- Long string of 9-7/8" x 7" casing *is again* the primary option...
 - Cement simulations indicate it is possible to obtain a successful cement job.
 - It is possible to fulfill MMS regulations of 500' of cement above top HC zone (thought to be 17,803')
 - Some risk, if losses occur, to have an open annulus to wellhead, with HC zone(s) open to 9-7/8" seal assembly as only barrier.
 - Potential need to verify TOC with USIT log and perform remedial cement job prior to TA if losses occur during cement job. May also need to obtain a BP / MMS dispensation for TOC.
 - Best economic case and well integrity case for future completion operations.

"Keeper Well" options:



- 7" Liner (with 7" x 9-7/8" XO x 11-7/8" Versaflex hanger) is now the *contingency* option...
 - ... Use this option if losses or hole stability problems occur during the conditioning run with 8-1/2" bit and bha.
 - ... Less issue with landing it shallow (we can also ream it down)
 - ... Can run it to bottom, if bridge at 18,280' seen during logging reappears.
 - ... Liner hanger acts as second barrier for HC in annulus if losses occur during cement job.
 - ... Primary cement job has slightly higher chance for successful cement lift due to lower ECD.
 - ... Remedial cement job, if required, easier to justify to be left for later due to liner top seal acting as second barrier.

"Keeper Well" options:



- Plug open hole and TA well (*least preferred*, but still an option if hole conditions go south)
 - ... Minimizes today's dollars and NPT exposure.
 - ... All primary well objectives have been achieved.
 - ... Increases cost to completion by \$10 - \$15 MM+ for drilling plugs, re-drilling production hole, re-logging.

9 7/8" X 7" Prod Casing



OptiCem

Circulating Pressure and Density at Reservoir Zone

