



Update on Modal Analysis

George Guthrie t
o Steven Aoki, Marcia K McNutt

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Cc: "Darren Mollot", "James Markowsky", "Anthony Cugini", "George Guthrie"

History: This message has been replied to.

Marcia & Steve,

Here is a quick summary of where the nodal-analysis modeling task stands (as per our call, Steve):

- * We have 5 NLS engaged for task 2 (LANL, LBNL, LLNL, NETL, PNNL)
- * Nodal analysis task has been laid out for the labs and is doable with appropriate data.
- * Teams are being assembled at each lab and a kickoff telecon is planned for tomorrow afternoon eastern (Monday).
- * Plan is for each lab to do calculation with same data set--then we will compare results to gauge uncertainty
- * Preliminary data needs have been assessed (and include oil composition , gas composition, gas/oil fraction (over time), density/viscosity of oil and gas, surface tension of oil and salt water, input pressure/temperature to well over time, output gas/oil temperature, formation volume factor, well geometry (from reservoir to breaches), riser and BOP geometries, depth of BOP/riser, water temperature/density, magnitude & direction of any currents, thermal gradients of the water; the first of these are assumed to be outputs from task 1 on reservoir-simulation, whereas the latter will be additional inputs needed for task 2 on nodal analysis)
- * Teams should be actively engaged on calculations beginning Monday assuming data availability.
- * Current approach assumes reservoir input data from MMS team. However, we also have ability to estimate that portion given direct reservoir data.

If you need additional information, please let me know.

Thanks,

-George