

Epicenter 4-15 – Bradenhead – Annular Fill

- 1 TIH with 2-3/8" tbg and 4.5" RBP. Set RBP @ +/-7080', (collars are at 7062' and 7104'). Pressure test RBP to 1000 psi. Spot 2sx of sand on top of RBP and TOOH.
- 2 Bleed off pressure. ND BOP's, ND wellhead, Un-land 4 1/2" casing, NU dual entry flange, NU BOP.
- 3 PU 1-1/4" 2.3#/ft J-55 10rd IJ tubing, and TIH outside 4-1/2" casing in open hole to ~2000'. Circulate with the rig pump while TIH to clean up the annulus. Use sweeps as necessary until clean returns are seen. Make sure no pressure is present on bradenhead before moving on to the next step. If gas is detected, contact engineering to discuss plan moving forward.
- 4 Contact Imperial mud (min of 24hrs. in advance) to bring out 40bbls of 10.0ppg mud. Pump 40bbls of mud at 2000'. Leave 1-1/4" tbg full of mud to avoid wet trip and PUH to 1600' to displace cement.
- 5 MIRU cement services. Pump 5 bbls water, 10 bbls mud flush and 5 bbls water. Prepare to cement.
- 6 Mix and pump **110 sx (~26 bbls)** of 14.8 ppg (1.33 cuft/sk) Type III w/ 1/4 lb/sk cello-flake. The cement is to be retarded for 80 °F and 3 hour pump time. Design is for coverage from ~1600' to ~1100'.
- 7 TOOH ~38 joints to ~400' and reverse circulate 2 times the tubing volume of water or until clean returns are seen. TOOH with 1-1/4" tubing.
- 8 RDMO cementing company.
- 9 ND BOP. ND dual entry flange and crossover. Pick up and land 4-1/2" casing in slips. NU new 4-1/2" 5000 psi tubing head with 2-5000 psi valves. Make sure to use new style flanged well head equipment. NU BOP's to tubing head.
- 10 Leave well shut in for ~24hrs.
- 11 MIRU wireline and run CCL-GR-CBL-VDL from **4400' to surface**. If top of cement is below 1100' notify Engineering. In addition to normal handling of logs/job summaries, email copies of all cement job logs/job summaries and invoices to rscDJVendors@anadarko.com within 24 hours of the completion of the job.
- 12 RDMO wireline.