

Penton 23-11 Bradenhead Procedure

- 1 ND BOP's, ND wellhead, Un-land 4 ½" casing, NU dual entry flange, NU BOP.
- 2 PU 1-1/4" 2.3#/ft J-55 10rd IJ tubing, and TIH outside 4-1/2" casing in open hole to ~1700'. Circulate with the rig pump while TIH to clean up the annulus. Use two sweeps of Alcomer 74L while TIH and a final sweep at 1700'. 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.
- 3 Contact Imperial mud (min of 24hrs. in advance) to bring out 40bbls of 10.0ppg mud. Pump 40bbls of mud at 1700'. Leave 1-1/4" tbg full of mud to avoid wet trip and PUH to 1500' to place cement in annulus.
- 4 MIRU cement services. Pump 10 bbl fresh water followed by **270sx (~64bbls)** of 14.8 ppg (1.33 cuft/sk) Type III w/ ¼ lb/sk cello-flake. The cement is to be retarded for 80 °F and 3 hour pump time. Design is for coverage from ~1500' to ~574' using 9" hole size and 20% excess.
- 5 TOOH ~35 joints to ~400' and circulate 1.5 times the hole volume of water or until no cement returns are seen. TOOH with 1-1/4" tubing.
- 6 RDMO cementing company.
- 7 ND BOP. ND dual entry flange and crossover. Pick up and land 4-1/2" casing in slips.
- 8 Install new GE 5000 psi 4-1/2" bottom threaded tbg head with 7-1/16" flanged top, 7-1/16" flanged 5000 psi tbg head adaptor with 2-1/16" studded top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-3/8" plunger lubricator (side outlets threaded). All valves, fittings, plugs on well head need to be rated for 5000 psi. NU BOP.
- 9 Leave well shut in for ~24hrs.
- 10 MIRU wireline and run CCL-GR-CBL-VDL from **3900' to surface**. If new top of cement is below 574' 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.
- 11 RDMO wireline.