

Thuener 12-14A: Annular Fill

- 1 Well needs an annular fill to satisfy COA for Cobra 12-23HZ pad, Adder 11-23HZ pad, & Taipan 9-22HZ pad and a flanged master valve installed.
- 2 Call Automation Removal Group 24 hours before rig up to isolate any production equipment (remove plunger, wellhead automation, etc.). Prepare to move base beam rig onto location. Install fence if needed. Operations need to bleed off the bradenhead pressure before the rig gets on location.
- 3 Check and report surface casing pressure. If valve is not accessible at ground level, re-plumb so valve is at ground level.
- 4 MIRU slickline. RIH to retrieve production equipment and tag for fill (**last cleaned out to 7,650' on 6/21/10**). Note tagged depth in OpenWells. RDMO slickline.
- 5 MIRU WO rig. Kill well as necessary with water and biocide. ND wellhead. NU BOP.
- 6 Unland 2-3/8" tbg and lay down landing joint.
- 7 MIRU EMI services. EMI 2-3/8" tbg while TOOH and tally while standing back. Lay down joints that have greater than 35% penetration or wall loss. Replace all joints that fail EMI testing. Document joint numbers and depth of bad tubing and create a Production Equipment Failure report in OpenWells. RDMO EMI services.
- 8 PU 10,000 psi rated from above and below RBP (4.5", 11.6#), retrieving head, and 2-3/8" tubing. Set RBP at +/- 7200' (collars located at 7192' and 7238').
- 9 Release tbg from RBP and circulate all gas out of the hole. Pumping water with biocide, pressure test RBP and production casing to 1,000 psi for 15 minutes. If pressure test passes, proceed; otherwise contact engineering.
- 10 Circulate 2 sx of sand on top of RBP and TOOH with 2-3/8" tubing.
- 11 Attach a hardline from the bradenhead/surface casing valve to a flowback tank and blow down any bradenhead pressure. If pressure does not blow down within 1 hour contact engineer, otherwise proceed.
- 12 ND BOP. Screw 4-1/2" pup joint into production casing and un-land 4-1/2" production casing. NU double entry flange. NU BOP. Install 1.66" pipe rams.
- 13 PU approx. 43 joints of 1.66" 2.3# J-55 10RD IJ tubing and TIH between the 4-1/2" production casing and 8-5/8" surface casing/open hole to +/- 1350'. Circulate one sweep using Alcomer 74L with EOT at 1350'. Continue to circulate with freshwater and biocide until the well is dead.
- 14 MIRU cementing services. Establish circulation and pump 20 bbls of sodium metasilicate, 260 sx Type III cement with 0.25pps cello flake, mixed at 14.8 ppg and 1.33 cuft/sx (based on 9" hole size + 20% excess from 1350'-616' and 200' between 8-5/8" 24# surface casing and 4-1/2" production casing). Attempt to cement from 1350' to 420'.
- 15 Under displace cement in 1.66" 2.3# J-55 10RD IJ tubing to 200' using 0.4 bbls of freshwater. RDMO cementing services.
- 16 TOOH and LD all 1.66" 2.3# J-55 10RD IJ tubing. ND BOP and double entry flange. Use 4-1/2" pup joint to re-land 4-1/2" casing. NU BOP. Install 2-3/8" pipe rams. Shut well in and WOC.
- 17 MIRU wireline services. RIH with CCL-GR-CBL-VDL. Run from +/- 1700' to top of cement (estimated +/- 420). If the cement is not at or above 420' contact engineer. RDMO wireline services.
- 18 PU and TIH with retrieving head and 2-3/8" tubing. Circulate sand off of RBP. Latch onto and release RBP at +/- 7200'. TOOH standing back all 2-3/8" tubing and LD RBP.
- 19 PU 2-3/8" NC, 2-3/8" XN nipple (be sure nipple is correctly input into OpenWells), and 2-3/8" 4.7# J-55 tbg to surface. Land EOT at +/- 7,510' (1 joint above top Codell perms).
- 20 RU rig lubricator. Broach tubing to XN seating nipple. RD rig lubricator. ND BOP. NU WH.
- 21 Install 7-1/16" x 5,000 psi tubing head adaptor and 5,000 psi flanged master valve. Make sure all wellhead valves are rated to 5,000 psi and all nipples are XXH. Document wellhead components in an OpenWells wellhead report.
- 22 Install 2-3/8" pup joint above the master valve. Pressure test the tubing head from below the tubing head through the master valve to 5,000 psi using hydrotester. If wellhead does not pressure test, replace wellhead/ wellhead valves as necessary with 5,000 psi rated equipment.
- 23 NU WH. RDMO WO rig. Return well to production team.