

## Mayer 22-15 – Bradenhead

- 1 Well already has directional survey.
- 2 Call Wattenberg IOC (970-506-5980) at least 24 hrs prior to rig move. If not already completed, request that they catch and remove plunger, isolate production equipment and remove any automation equipment prior to the rig showing up. Install perimeter fence as needed.
- 3 If unable to catch plunger, MIRU SL. Fish plunger and tag PBMD (should be 7304'). Otherwise, use rig to tag fill with tbg. Inform engineer of tag depth.
- 4 Prepare location for base beam rig.
- 5 Spot 25 jts of 2-3/8" 4.7# J-55 8RD EUE tbg.
- 6 Spot 1800' of 1-1/4" 2.33# J-55 10rd IJ tbg.
- 7 MIRU WO rig. Kill well with fresh water and biocide. ND WH, NU BOP.
- 8 PU tbg to break any possible sand bridges. Do not exceed 80% of tubing tensile strength, or 57,384 lb. LD landing jt.
- 9 Unseat tbg hanger. Install rubber wiper in stripping head.
- 10 MIRU EMI equipment. TOOH with 2-3/8" tbg. EMI tbg while TOOH. Lay down jts with wall loss or penetrations >35%. Replace jts as necessary. Keep yellow and blue band tbg. Note jt number and depth of tubing leak(s) on production equipment failure report in OpenWells. Clearly mark all junk (red band) tbg sent to yard.
- 11 PU and TIH with 214 jts of 2-3/8" tbg with 4.5" RBP (4.5" 11.6# I-80). Set RBP at +/- 6730' (Collars at 6708' and 6750'). Spot 2 sx sand on top of RBP. TOOH. Stand back tbg.
- 12 Pressure test RBP to 1000 psi for 15 minutes. If pressure test passes, proceed.
- 13 ND BOP, ND tbg head. Unland 4-1/2" 11.6# I-80 csg (Do not exceed 130,000-lb pull weight). NU double entry flange, NU BOP.
- 14 PU and TIH with 1700' of 1-1/4" tbg outside 4-1/2" csg (should be +/- 57 jts).
- 15 Circulate and condition hole with ~115 bbls of water with rig pump (1.5x annular volume from 1700'), or until well is completely dead. Spot 40 bbls of 10 ppg drilling mud.
- 16 TOOH with 7 jts 1-1/4" tbg to 1500'.
- 17 MIRU cement company. Commence pumping cement job consisting 10 bbl fresh water followed with 175 sx of Type III cement with ¼ lb/sk cello-flake mixed at 14.8 ppg and 1.33 cf/sk blended for a 3 hr pump time (cement from 1500' to 741'. 8.25" hole from caliper, adding 20% excess).
- 18 TOOH with 30 jts of 1-1/4" tbg to +/- 600' and circulate with drilling mud to clean up.
- 19 TOOH with remaining 1-1/4" tbg and LD.
- 20 RMDO cement company.
- 21 ND BOP, ND double entry flange, re-land 4-1/2" csg. NU BOP.
- 22 Leave well SI for minimum of 24 hours.
- 23 MIRU WL and run CCL-GR-CBL-VDL from 1700' to surface (cement should be from +/- 1500' to 741'). If Fox Hills plug is not above 741', contact engineering for further instructions. Email logs to engineering and [DJVendors@anadarko.com](mailto:DJVendors@anadarko.com). RDMO WL.
- 24 If tbg head is not as described, ND BOP. 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" studed

- 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.
- 25 Pressure test csg to 5000 psi for 15 mins. If pressure test does not hold, call engineering.
  - 26 TIH with 2-3/8" tbg and retrieving head to tag sand above RBP at +/- 6730'. Circulate sand off RBP, latch onto RBP and TOOH. SB tbg, LD RBP.
  - 27 PU and TIH with 2-3/8" NC, 2-3/8" XN, and 227 jts 2-3/8" tbg. If necessary, drop down with extra jts and circulate to cleanout sand. Land end of tbg at +/- 7139' (1 jt above top Codell perf).
  - 28 ND BOP, NU WH.
  - 29 GE should pressure test tbg head through test port on side of tbg head adaptor flange to 5000 psi for 15 mins.
  - 30 RMDO WO rig. Return well to production team.
  - 31 Clean location and swab well back to production. Notify field foreman/field coordinator of finished work and turn well back over to production team.