

Strear 36-10 Bradenhead v1 11272013 SX prior coverage.docx

- 1 Level location for base beam rig.
- 2 Call Foreman or Field Coordinator before rig up to catch plunger, isolate production equipment, and ask if replacement parts/equipment are requested. Operations need to hook up the Bradenhead pressure and bleed off the pressure before the rig gets on location.
- 3 Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.
- 4 Spot a minimum of 11 jts 2-3/8", 4.7#, J-55 EUE TBG for replacement and 35 jts 1-1/4", 2.33#/ft, J-55 10rd IJ for annular cement job.
- 5 MIRU slickline. Fish production equipment as necessary and tag fill. Note tagged depth in OpenWells. RDMO slickline.
- 6 MIRU WO rig. Kill well, as necessary, with biocide treated fresh water. ND WH. NU BOP.
- 7 Unseat landing joint and lay down.
- 8 MIRU EMI services. TOOH with 2-3/8" TBG while SB. EMI on TOOH. LD joints with wall loss or penetrations > 35%. Replace joints as necessary. **Keep yellow & blue band tubing. Note joint number and depth of tubing leak(s) on PRODUCTION EQUIPMENT FAILURE REPORT IN OPEN WELLS.
- 9 TIH with 2-3/8" TBG & RBP suitable for 4-1/2", 11.6#, I-80 casing. Set RBP at 4490'. (Collars at 4470' & 4510').
- 10 Circulate gas out of well and pressure test RBP & CSG to 2000 psi for 15 min. Dump 2 sx sand on top of RBP & TOOH while standing back TBG.
- 11 ND BOP. ND WH. Unland 4-1/2" casing. NU double entry flange.
- 12 PU 1-1/4", 2.3#/ft J-55 10rd IJ tubing and TIH outside 4-1/2" casing and open hole to 1000'. Circulate with biocide treated fresh water on TIH.
- 13 MIRU cement services. Mix and pump cement job as follows: Freshwater spacer, 20 bbls Sodium Metasilicate, 150 sx 15.8 ppg neat Class G cement with 1/4#/sx cello-flake. The cement is to be retarded for 125 degF for a six hour pump time. (Attempt to cement from 1000' to 500').
- 14 Trip out of the hole with 1-1/4" tubing and shut in overnight.
- 15 Rig down cementing services.
- 16 Reland 4-1/2" CSG. ND double entry flange. Install new WHI 5000 psi flanged tubing head complete with 5000 psi rated casing valves. Install 7-1/16", 5000 psi tubing head adapter with new 5000 psi master valve with 2-3/8" 8 round threaded connection. SDFN to WOC.
- 17 MIRU wireline services.
- 18 PU and RIH with CCL-GR-CBL-VDL. Run from 1100' to surface, or 200' above the top of cement. RDMO wireline. If the cement is not above 500' then contact engineer.
- 19 PU and TIH with 2-3/8" TBG & retrieving head. Circulate sand off RBP, latch RBP and TOOH standing back TBG & laying down retrieving head and RBP.
- 20 If clean out is not necessary, skip to the next step. PU and TIH with TBG and clean out to at least 8100'. Bail if/when needed to assist with cleanout. (Bottom CD perf 7945') TOOH and SB 2-3/8" TBG.

Well needs Bradenhead work completed

Well is to be worked on in preparation for APC BUTTERBALL 13-10HZ PAD scheduled to begin frac 12/30/13

Well does NOT need gyro survey

Nio top: 7662'; TOC: 1050'

NPV: 575M; No known casing issues

Strear 36-10 Bradenhead v1 11272013 SX prior coverage.docx

- 21 PU and TIH with NC, XN profile nipple, and 2-3/8" TBG and land well at 7867', which is 1 jt above CD perfs.
- 22 RU rig lubricator. Broach tubing to XN nipple. RD rig lubricator.
- 23 ND BOPE. NU WH. Ensure all valves on WH are rated to minimum 5000 psi and ensure new TBG head has new R-46 ring gasket installed.
- 24 MIRU hydrotester. Pressure test new TBG head to 5000 psi for 15 minutes. After successful pressure test, proceed.
- 25 RDMO WO Rig. Clean location and swab if necessary. Notify Foreman or Field Coordinator of completed workover operations and turn well over to production team.

Well needs Bradenhead work completed

Well is to be worked on in preparation for APC BUTTERBALL 13-10HZ PAD scheduled to begin frac 12/30/13

Well does NOT need gyro survey

Nio top: 7662'; TOC: 1050'

NPV: 575M; No known casing issues