

Pioneer 31-2 Annular Fill

- 1 Well needs single stage annular fill from 1200' to 750' due to Bradenhead pressure.
- 2 NOTE: WELL HAS GYRO DATED 9/14/2012.
- 3 Call the IOC at 970-506-5980 before rig up to isolate production equipment. Call 24 hours prior to the rig moving onto location so that any automation equipment can be removed prior to the rig showing up. Install fence if needed. NOTE: Report surface casing pressure to engineer. If surface casing is not accessible at ground level, re-pipe so valve is at ground level
- 4 Level location for base beam rig.
- 5 Spot 46 jts of 1-1/4" 2.33# J-55 10rd IJ tbgs.
- 6 MIRU slickline. RIH and tag for fill. If production equipment found, retrieve. Note tagged depth in OpenWells. RDMO slickline. Last tagged depth was N/A.
- 7 RDMO wireline services company.
- 8 MIRU WO Rig. Control well with biocide treated water. ND WH and NU BOP. Function test and document. Unseat landing joint and LD.
- 9 PU 8-10' landing joint with TIW safety valve on top and screw into the tbg hanger. Back out the lock down pins and pull up on the tbg string to break any possible sand bridges. Do not exceed 80% of tubing tensile strength is 57,600-lb.
- 10 MIRU EMI services. TOOHS with 2-3/8" TBG. EMI on TOOHS. LD joints with wall loss or penetrations > 35%. Replace joints as necessary. **Keep yellow & blue band tubing. Note joint number and depth of bad joints on PRODUCTION EQUIPMENT FAILURE REPORT IN OPEN WELLS. Last EMI was N/A. RDMO EMI services.
- 11 If no scale or build up is witnessed on TBG string, proceed to next step. If excessive scale and build up is witnessed on TBG string, PU 4-1/2", 11.6#, I-80 casing scraper and TIH on 2-3/8 TBG to 7300'.
- 12 PU and TIH 10,000 psi rated RBP above and below (4-1/2", 11.6#, I-80) and set RBP at +/- 7230' (collars located at 7209' and 7251').
- 13 Pressure test RBP to 1,000 psi for 15 minutes.
- 14 Dump 2 sks sand on top of RBP. POOH.
- 15 Bleed off pressure. ND BOP's, ND wellhead, Un-land 4-1/2" casing but do not exceed 80% of the tubing tensile strength which is 169,600 lbs, NU dual entry flange, NU BOP. Function test and document.
- 16 PU and TIH with 1-1/4" 2.33# J-55 10rd IJ tbgs outside 4-1/2" csg to +/- 1400'. Run two 2" or one 3" line(s) from starting head to return tanks. If unable to achieve at least 1 bbl/min return, call engineering for alternate procedure. Circulate with 2 sweeps of Alcomer 74L and freshwater treated with biocide to clean up annulus while TIH. Make one last sweep with Alcomer 74L at 1400'. If unable to get below about 1200', contact engineering (possible obstructions shown on CBL). Continue to circulate with rig pump until clean returns are seen and well is dead. MAKE SURE WELL IS DEAD BEFORE PROCEEDING. WELL HAS A HISTORY OF HIGH BH PRESSURE AND PRODUCING FLUID.
- 17 Contact Ed Asuchak at 970-515-1170 for mud (min of 24hrs. in advance) and pump 40 bbls of 10.0ppg mud. Shut in well for 1 hr to ensure no gas is present. Not acceptable to use re-hydrated mud from annular space. If gas is detected, contact engineering to discuss plan moving forward.
- 18 PUH to 1200'.
- 19 MIRU cement company.
- 20 Commence pumping cement job at pump rate of consisting 30 bbl spacer (5 bbls water, 20 bbls SMS, 5 bbls water), 95.7 sx (29.5 bbl/165.5 cuft) of Control Set C mixed at 13.5 ppg and 1.73 cuft/sk blended for a 1:30 pump time.
- 21 TOOHS with 1-1/4" tbgs until EOT is at +/- 600' and circulate 2x tubing volume or until cement cleans up. TOOHS remaining 1-1/4" tbgs and LD all 1-1/4" tbgs.
- 22 Break lines and clean up with fresh water. RDMO cement company.
- 23 ND bop, ND dual entry flange. NU 2-3/8" tbgs head and BOP. Function test and document.

Well needs a single stage annular fill due to high Bradenhead pressure and excessive fluid.

Cement coverage is designed from 1200' to 750'.

TOC: 1420'. FHM: 1218', Nio Top: 7337

No known csg issues

Form 17 on 1/22/2015 went from 140 psi to 17 psi in 10 minutes. Test was stopped due to 20 gal of condensate produced. After 15 min shut in, pressure built up to 138 psi.

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- 24 Leave well shut overnight.
- 25 Circulate gas out of hole with fresh water with biocide.
- 26 MIRU wireline and run CCL-GR-CBL-VDL from 1600' to surface'. Verify with Evans Engineering that new TOC is at 750' or higher. 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.
- 27 RDMO wireline.
- 28 PU and TIH with 2-3/8" TBG to sand above RBP at 7230'. Reverse circulate clean and latch onto RBP, unseat RBP.
- 29 TOOH while standing back 2-3/8" TBG and laying down retrieving head and RBP.
- 30 PU & TIH with 2-3/8" NC, 2-3/8" SN, and 2-3/8" TBG. Circulate clean to 7729'. N2 may be necessary to maintain circulation.
- 31 PUH to land TBG at +/- 7550' which is approximately 1 joint above CODELL.
- 32 ND BOP, NU WH. Ensure all valves on WH are rated to minimum 5000 psi and update WH as necessary to flanged style WH. Ensure a new R-46 gasket is installed on WH.
- 33 MIRU hydrotester. Pressure test TBG head to 5000 psi for 15 minutes. After successful pressure test, proceed. RDMO hydrotester.
- 34 RU rig lubricator. Broach TBG to SN. RD rig lubricator.
- 35 RDMO WO rig. Notify Foreman or Field Coordinator of completed workover operations. Return well to production team.

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