

STREAR 6-15

- 1 Call Foreman or Lead Operator at least 24 hr prior to rig move. 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.
- 2 Gyro not needed – obtained on 3/28/12
- 3 Notify CDC when rig moves on location to generate workorder for flowline removal and one call for line locates.
- 4 Prepare location for base beam rig.
- 5 Notify cement vendor of expected volumes and blends
- 6 MIRU WO rig. Kill well using water and biocide. ND wellhead. NU BOP.
- 7 PUH w/ tbg to break any sand bridges, noting not to exceed the safety tensile load of 2-3/8", 4.7# tbg of 57,3847 lbs. (80% of upset joint yield strength).
- 8 TOOH with 2-3/8" tbg and stand back.
- 9 MIRU WL. RIH with Junk Basket/Gauge Ring on WL to \pm 7300'. TOOH with Junk Basket/Gauge Ring.
- 10 PU and RIH with CIBP for 4-1/2", 11.6#, I-70 production casing. Set CIBP at 7290' (27' above NB perms due to coupling @ 7305'). POOH. Pressure test CIBP to 1000 psi for 15 min. RDMO WL.
- 11 Run tbg to spot a 450' long balanced plug over CIBP @ 7290' to 6840.
- 12 MIRU Cementing services. Pump 30 sx of cement (Class G w/ 20% Silica four, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sx) on CIBP to reach an estimate TOC @ 6850' inside 4-1/2" production casing. Pull 2 stand tbg and circulate hole with min 9.0 ppg drilling mud (150 bbls, 1.5 volume of hole). Circulate to get any cement out of the hole. POOH. RD Cementer.
- 13 WOC for 4 hours
- 14 TIH with tubing and tag cement, if tag is less than 6900' contact Anne Kremer to discuss.
- 15 PUH to 5200' and spot a 920' long balanced plug over the Sussex/Shannon interval.
- 16 RU cementer. Pump 70 sx of cement ("G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-30) from 5200' and 4280'.
- 17 PUH to 3880' (400' above estimated top of cement) with 2-3/8" tubing and circulate conventionally with drilling mud until no cement returns to surface.
- 18 P & SB tubing for next depth (1340'), LD remainder. Circulate wellbore with drilling mud. RD cementer.
- 19 MIRU WL. TIH with jet cutter and cut casing at the "closest joint" to 1240' (100' below bottom of aquifer). RDMO WL.
- 20 ND BOP & tbg head.
- 21 NU BOP w/ 4-1/2" pipe rams on the 8-5/8" csg head.
- 22 PU csg. Circulate wellbore with drilling mud. TOOH and LD 4-1/2" csg. If unable to pull production csg contact engineer/COGCC for plugging modification.
- 23 TIH with tbg open ended to land EOT @ 1340', 100' below production casing stub at 1240'.

- 24 MIRU cementer. Spot 400 sx of cement (Type III w/ CaCl₂ and .25 pps cello flake) from 100' below the 4-1/2" stub to at least 200' inside the surface casing (plug from 1340'-520').
TOOH w/ tubing and stand back 600' tbg in derrick. RDMO Cementer.
- 25 WOC 4 hours or overnight.
- 26 TIH with tbg and tag cement plug. If tag is below 620' contact Anne Kremer and discuss options. Record tagging plug in Openwells report. Lay down all tbg.
- 27 RU WL. Set 8-5/8" CIBP above cement top at approximately 100'. Pressure test CIBP to 1000 psi for 15 min. (If CIBP does not hold contact Evans engineer and do not RDMO WO rig).
- 28 RDMO WO rig.
- 29 Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Sabrina Frantz.
- 30 NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Sabrina Frantz.
- 31 Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
- 32 Check top of cement inside 8-5/8" surface casing. If cement is not of sufficient height (less than 25' below ground level), place redi-mix cementer on will call.
- 33 Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing at least 5' below ground level.
- 34 Have welder cut off 8-5/8" surface casing at least 5' below ground level.
- 35 MIRU ready cement mixer. Fill the last 100' inside the 8-5/8" surface casing. Use 4,500 psi compressive strength redi-mix cement (sand and cement only, no gravel) to finish filling surface casing to top of cut off.
- 36 Have welder spot weld on steel marker plate. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API number.
- 37 Properly abandon flowlines as per Rule 1103.
- 38 Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
- 39 Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.