

CAMP 30-5J

PLUG AND ABANDON PROCEDURE

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- 1 Gyro run 10/9/2014.
- 2 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6. Submit Form 42 and call Automation Removal Group at least 24 hr 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 MIRU SL. Fish production equipment and tag PBMD (should be 7462'). Enter tag depth in OpenWells. RDMO SL services.
- 4 Prepare location for base beam rig.
- 5 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL. The last Form 17 test on 12/16/2014 recorded no Bradenhead pressure. Blow down Bradenhead if necessary and re-check pressure the next day until pressure stays at 0 psi. Contact Evans Engineering if pressure does not blow down to 0 and stay at 0.
- 6 Spot 25 jts of 2-3/8" 4.7# J-55 EUE tbg.
- 7 MIRU WO rig. Well should be dead from existing CIBP @ 7105' w/ 35 sx cap. ND WH, NU BOP.
- 8 PU tbg to break any possible sand bridges. Do not exceed 80% of tubing tensile strength, or 57,360 lb. LD landing jt (no need to hydrotest, tbg EMI'd and hydrotested Jan 2015).
- 9 Notify cementers of the needed volumes: 35 sx of 0:1:0 Class G cement w/ 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk (Sussex plug); 360 sx of Type III cement w/ 0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl₂ mixed at 14.8 ppg and 1.33 cf/sk (Fox Hills stub plug).
- 10 PUH w/ 2-3/8" tbg to 4540'. Circulate fresh water w/ biocide to remove gas from hole.
- 11 MIRU cement company. Spot 35 sx of 0:1:0 Class G cement w/ 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk (cement from 4540' to 4130' in 4-1/2" csg).
- 12 PUH to 3900'. Circulate fresh water w/ biocide to clear tbg and remove gas from hole. WOC to set up per cementing company recommendation.
- 13 PU & TIH w/ 2-3/8" tubing and tag cement plug at 4130'. If cement plug is not at 4130', contact engineering.
- 14 TOOH. Stand back 1450' of tbg and LD remainder.
- 15 MIRU WL. PU jet cutter and RIH to 1350', cut 4-1/2" csg. Circulate to remove any gas and old mud from wellbore. RDMO WL.
- 16 ND BOP, ND tbg head. NU BOP on surface csg w/ 4-1/2" pipe rams. Install 3000 psi ball valves on csg head outlets. Install choke or choke manifold on one outlet.
- 17 TOOH w/ 4-1/2" csg and LD.
- 18 Uninstall 4-1/2" pipe rams on BOP and install 2-3/8" pipe rams.
- 19 TIH w/ 2-3/8" tbg to +/- 1450', 100' inside 4-1/2" csg stub.
- 20 MIRU cement company. Establish circulation w/ fresh water and biocide and get bottoms up. Pump 10 bbls SAPP, 20 bbls fresh water and biocide followed w/ 360 sx of of Type III cement w/

0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl₂ mixed at 14.8 ppg and 1.33 cf/sk (cement from 1450' to 520', 10" avg hole from caliper, adding 20% excess).

- 21 TOO H w/ 2-3/8" tbg. WOC to set up per cementing company recommendation, tag plug. Tag needs to be 620' or higher. TOO H.
- 22 MIRU WL. RIH w/ 8-5/8" CIBP and set at 80'. Pressure test to 1000 psi for 15 min. If pressure holds, RDMO WL and RDMO WO rig.
- 23 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to rscDJVendors@anadarko.com w/in 24 hrs of the completion of the job.
- 24 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
- 25 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 26 Excavate hole around surface casing enough to allow welder to cut 8-5/8" casing minimum 5' below ground level.
- 27 Welder cut 8-5/8" casing minimum 5' below ground level.
- 28 MIRU Redi Cement mixer. Use 4500 psi compressive strength cement, (NO gravel) to fill stubout.
- 29 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
- 30 Properly abandon flowlines per Rule 1103.
- 31 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
- 32 Back fill hole w/ fill. Clean location, level.
- 33 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.