

CAROL FEDERAL 3-31A

- 1 Call foreman or lead operator at least 24 hr prior to rig move. Request that they catch and remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence as needed.
- 2 GYRO complete OCT11.
- 3 Provide notice of MIRU to COGCC field inspector as specified in approved form 6.
- 4 Notify IOC when rig mobilizes to location to generate workorder for flowline removal and one call for line locates.
- 5 Prepare location for base beam equipped rig
- 6 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
- 7 Notify cementers to be on call. Provide volumes (30 sx "G" w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301, and R-3 for pump time of 2:30 mixed at 15.8 ppg and 1.38 yield, 75 sx class G, 0.4% CD-32, 0.4% ASA-301 15.8ppg 1.15 yield (In pipe only), 160 sx Type III CaCl₂ cement 1.53 yield (10"+20%)).
- 8 TOOH 2 3/8" production tubing. Stand back.
- 9 MIRU WL. RIH gauge ring for 4-1/2" 11.6#/ft csg to 7760'.
- 10 RIH CIBP, set at 7700'. PT CIBP to 1000 psi. PU dump bailer, dump bail 2 sx class G cement on CIBP. RD WL
- 11 TIH to 7050'+/- hydrotesting tubing in to 3000 psi. Roll hole using water containing biocide.
- 12 RU cement services.
- 13 Spot 30 sx "G" w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301, and R-3 for pump time of 2:30 mixed at 15.8 ppg and 1.38 yield to ensure coverage in pipe from 7050-6650'.
- 14 PUH 8 stands. Circulate 100 BBL water containing biocide if forward circulating, 10 BBL water containing biocide if reverse circulating to clear tubing. WOC 4 hrs.
- 15 TIH, tag cement. Note depth, if below 6650', contact production engineer to discuss.
- 16 Place 9.0 ppg mud containing biocide from tag to 5050' (~25BBL).
- 17 Spot 75 sx class G, 0.4% CD-32, 0.4% ASA-301 with 1.15 cuft/sk yield from 5050' to 4078'.
- 18 PUH 18 stands. Circulate 60 BBL water containing biocide if forward circulating, 6 BBL water containing biocide if reverse circulating to clear tubing. WOC 4 hrs.

- 19 TIH and tag plug. If below 4078', contact production engineer to discuss.
- 20 Place 9.0 ppg mud containing biocide from tag to 700' (~52BBL).
- 21 P&SB 900' tbg. LD remainder.
- 22 RU WL. Crack coupling or shoot off casing at 900'. RD WL. Circulate hole using 80 BBL water containing biocide to remove any gas.
- 23 NDBOP, NDTH.
- 24 NU BOP on casing head, install 4-1/2" pipe rams.
- 25 TOO H with 4-1/2" casing, LD.
- 26 TIH into csg stub using production tubing to 900'.
- 27 Spot 160 SX Type III CaCl₂ cement with 1.53cuft/sk yield.
- 28 PUH to 150'. Circulate 10 BBLs 9.0 ppg mud with biocide.
- 29 TOO H. WOC 4 hrs.
- 30 TIH and tag. If cement is below 200', discuss with production engineer.
- 31 Fill casing with 9.0 ppg drilling mud containing biocide from tag to 100'.
- 32 RU Wireline services. RIH 8-5/8" CIBP to 100'. Set, PT to 1000psi for 15 min. If tests, RDMO WL and WO rig.
- 33 Supervisor submit paper copies of all invoices, logs, and reports to Frantz, Sabrina.
- 34 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 35 Place Redi Mix cement on will call if cement top in 8 5/8" is more than 25' below surface.
- 36 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
- 37 Welder cut 8 5/8" casing minimum 5' below ground level.
- 38 MIRU redimix. Use 4500psi compressive strength cement, (NO gravel) fill stubout.
- 39 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 ¼ descriptor) and API number
- 40 Properly abandon flowlines per Rule 1103.
- 41 Back fill hole with fill. Clean location, level.

42 Submit Form 6 to COGCC ensuring to provide "As performed" WBD identifying operations completed.