

## GOULD LEE JR UNIT #1

- 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 MIRU slickline services and VES. Pull bumper spring, tag bottom and run gyro survey from 7850' to surface with stops every 100'. Forward gyro survey data to Sabrina Frantz and invoices to Sabrina Frantz. RDMO slickline services and VES.
- 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 and circulate. ND WH. NU BOP. Unseat landing jt, LD.
- 7 Notify cementers to be on call. Provide volumes (140 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk (9.5"+20% Caliper Log in file), 560 sx class "G", w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (11"+20% Caliper Log in file); 120 sx (7.875" w/ 60% through CICR) and 80 sx (inside 4.5" on CICR) Type III CaCl<sub>2</sub> cement mixed at 14.0 ppg and 1.53 cf/sx).
- 8 TOOH 2 3/8" production tubing. Stand back.
- 9 MIRU WL. RIH gauge ring for 4.5" 11.6#/ft csg to 7700'.
- 10 RIH CIBP, set at 7650'. PT CIBP to 1000 psi. PU dump bailer, dump bail 2 sx class "G" cement on CIBP.
- 11 RUN CBL from 7500' to TOC (should be about 7000'). Contact production engineer if cement is found shallower than 7000'.
- 12 PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 6950' and 6550'. RD WL.
- 13 PU CICR on production tubing. TIH to 6580' hydrotesting tubing in to 3000 psi. Roll hole using water containing biocide.
- 14 Set CICR at 6580'. Initiate circulation through CICR using water containing biocide. Note rate and pressure.
- 15 RU cement services.

- 16 Pump 140 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk. Underdisplace by 3 bbls, unsting from retainer and dump remaining 3 bbls on top of CICR.
- 17 PUH 6 stands. Reverse circulate 50 BBL water containing biocide to clear tubing.
- 18 Place 9.0 ppg mud containing biocide from 6208' to 4720' (~24BBL). TOOH
- 19 RU WL. PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4720' and at 3890'. RD WL.
- 20 PU CICR on production tubing and set at 3920'. Initiate circulation through CICR using water containing biocide. Note rate and pressure.
- 21 RU cement services.
- 22 Pump 20 bbl Sodium Metasilicate immediately preceding cement.
- 23 Pump 560 sx class "G", w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sx. Underdisplace by 3 bbls, unsting from retainer and dump remaining on top of CICR.
- 24 PUH 6 stands. Reverse circulate 30 BBL water containing biocide to clear tubing.
- 25 Place 9.0 ppg mud containing biocide from 3550' to 1700' (~30BBL).
- 26 RU WL. PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 1700' and at 1300'. RD WL.
- 27 PU CICR on production tubing and set at 1330'. Initiate circulation through CICR using water containing biocide. Note rate and pressure.
- 28 RU cement services.
- 29 Pump 120 sx Type III CaCl<sub>2</sub> cement mixed at 14.0 ppg and 1.53 cuft/sx.
- 30 Unsting from retainer.
- 31 Pump 80 sx Type III CaCl<sub>2</sub> cement mixed at 14.0 ppg and 1.53 cuft/sx.
- 32 PUH to 100'. Circulate 10 BBLs water containing biocide to clear tubing and casing.
- 33 TOOH. WOC 4 hrs.
- 34 TIH and tag. If cement is below 150', discuss with production engineer.
- 35 MIRU WL. RIH 4-1/2" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
- 36 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.

- 37      Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 38      Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
- 39      Welder cut 8 5/8" casing minimum 5' below ground level.
- 40      MIRU ready cement mixer. Use 4500psi compressive strength cement, (NO gravel) fill stubout.
- 41      Weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number
- 42      Properly abandon flowlines per Rule 1103.
- 43      Back fill hole with fill. Clean location, level.
- 44      Submit Form 6 to COGCC ensuring to provide "As performed" WBD identifying operations completed.