

SAKATA ROBERT GU #2

- 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 run 20DEC11
- 3 Provide notice of MIRU to COGCC field inspector as specified in approved form 6.
- 4 Notify CDC 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 (140 sx 50/50 Poz G 20% silica flour 3% gel, 0.1 sodium metasilicate 0.4% FL-52 1.71 yield (9"+20%), 870 sx class G w 0.25pps Cello flake, 0.4% CD-32, 0.4% ASA-301 1.15 yield (11"+20%), 350 sx Type III CaCl<sub>2</sub> cement 1.53 yield (9"+20%))
- 8 TOOH 2 3/8" production tubing. Stand back.
- 9 MIRU WL. RIH gauge ring for 4.5" 10.5#/ft csg to 7800'.
- 10 RIH CIBP, set at 7720'. Dump bail 2 sx class G cement on CIBP.
- 11 TIH to 7010'+/-. Circulate hole with biocide water.
- 12 PT plug to 1000 psi. TOOH
- 13 RIH CCL/GR/CBL/VDL. Run from 7200' to surface to verify cement coverage. Notify engineer if cement top is below 7089'.
- 14 PU perf gun with 1' 3spf, 0.5" dia. 120\* phasing. Shoot 1' of squeeze holes at 7070'. RD WL.
- 15 PU CICR on production tubing, hydrotest tubing in to 3000 psi. RIH to 6718', set.
- 16 RU cementers. Initiate injection through CICR. Note rate and pressure.
- 17 Pump 140 sx 50/50 Poz G 20% silica flour 3% gel, 0.1 sodium metasilicate 0.4% FL-52 1.71 yield. Underdisplaced by 2 BBLS. Release from CICR, dump remaining 2 BBLS on top of CICR.
- 18 PUH 10 stands. Circulate with 150 BBL 9.0 ppg min biocide mud. TOOH.
- 19 RU WL. PU perf gun with 2' 3spf, 0.5" dia. 120\* phasing. Shoot 1' of squeeze holes at 4100' and 5170'. RD WL.
- 20 RIH with CICR to 4130', set using production tubing.
- 21 Initiate circulation through CICR. Preflush using 5 BBL H<sub>2</sub>O, 20BBL Sodium Metasilicate, 5 BBL H<sub>2</sub>O.
- 22 Pump 870 sx class G w 0.25pps cello flake, 0.4% CD-32, 0.4% ASA-301 1.15 yield cement. Underdisplace by 2 BBLS. Release from CICR, dump remaining 2 BBLS on top of CICR.
- 23 PUH 6 stands. Circulate 150 BBL 9.0 ppg biocide mud to clear tbg.
- 24 RU WL. Crack coupling or shoot off casing at 1280'. RDMO WL. Circulate with 100 BBL 9.0 ppg biocide mud. TOOH.
- 25 NDBOP, NDTH.
- 26 NU BOP on casing head, install 4-1/2" pipe rams.
- 27 TOOH with 4-1/2" casing, LD.
- 28 TIH into csg stub using production tubing to 1380'+/-'.
- 29 Spot 350 SX Type III CaCl<sub>2</sub> cement with 1.53cuft/sk yield. TOOH.

- 30 WOC 4hrs.
- 31 TIH and tag. If cement is below 387', top as necessary to 387' +/-.
- 32 RU Wireline services. RIH 8-5/8" CIBP to 100'. Set, and PT to 1000psi for 15 min. If test, 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 5' below ground level.
- 38 MIRU redimix. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.
- 39 Weld on steel marker plate. Marker should contain Well name, 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.