

NISHIMOTO 7-36 (HSR)

- 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 Provide notice of MIRU to COGCC field inspector as specified in approved Form 6.
- 3 Notify IOC when rig mobilizes to location to generate workorder for flowline removal and one call for line locates.
- 4 Prepare location for base beam equipped rig.
- 5 MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
- 6 Notify cementers to be on call. Provide volumes (30 sx 1:1:3 'Poz:G:Gel' + 20% silica flour + 0.4% CFL-2 + 0.1% SMS + 0.05% CR-4 mixed at 13.5 ppg and 1.66 cf/sk (inside 4.5"), 220 sx 1:2:4 'Poz:III:Gel' + 3% (BWOW) KCl + 1% SMS + 0.4% CR-4 + 0.2% SPC-2 + 2 lb/sx PS Flake mixed at 12.5 ppg and 1.93 cf/sx (8.5"+20% Caliper Log in file); 240 sx Type III + 0.2% SPC-2 mixed at 14.2 ppg and 1.46 cf/sx (8"+20% Caliper Log in file)).
- 7 TOOH 2 3/8" production tubing. Stand back.
- 8 MIRU Wireline.
- 9 RIH gauge ring for 4.5" 11.6#/ft csg to 7000'.
- 10 RIH CIBP, set at 6975'. PT CIBP to 1000 psi. RD WL
- 11 TIH to 6975'+/- tag CIBP hydrotesting tubing in to 3000 psi. Roll hole using water containing biocide.
- 12 RU cement services.
- 13 Spot 30 sx 1:1:3 'Poz:G:Gel' + 20% silica flour + 0.4% CFL-2 + 0.1% SMS + 0.05% CR-4 mixed at 13.5 ppg and 1.66 cf/sk on top of CIBP.
- 14 PUH 18 stands. Reverse circulate 50 BBL water containing biocide to clear tubing.
- 15 Place 9.0 ppg mud containing biocide from 5859' to 4925' (~15BBL). TOOH
- 16 RU WL. PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4925' and at 4000'. RD WL.
- 17 PU CICR on production tubing and set at 4030'. Initiate circulation through CICR using water containing biocide. Note rate and pressure.

- 18 RU cement services.
- 19 Pump 20 bbl Sodium Metasilicate immediately preceding cement.
- 20 Pump 220 sx 1:2:4 'Poz:III:Gel' + 3% (BWOW) KCl + 1% SMS + 0.4% CR-4 + 0.2% SPC-2 + 2 lb/sx PS Flake mixed at 12.5 ppg and 1.93 cf/sx. Underdisplace by 3 bbls, unsting from retainer and dump remaining on top of CICR.
- 21 PUH 7 stands. Reverse circulate 28 BBL water containing biocide to clear tubing.
- 22 Place 9.0 ppg mud containing biocide from 3596' to 1477' (~33BBL).
- 23 P&SB 1477' tbg. LD remainder.
- 24 RU WL. Crack coupling or shoot off casing at 1377'. RDMO WL. Circulate hole using 95 BBL water containing biocide to remove any gas.
- 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 1477'.
- 29 Spot 240 sx Type III + 0.2% SPC-2 mixed at 14.2 ppg and 1.46 cf/sx.
- 30 PUH to 400'. Circulate 51 BBLs water containing biocide to clear tubing.
- 31 TOOH. WOC 4 hrs.
- 32 TIH and tag. If cement is below 651', discuss with production engineer.
- 33 Fill casing with 9.0 ppg mud containing biocide from tag to 100'.
- 34 MIRU WL. RIH 8-5/8" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
- 35 Supervisor submit paper copies of all invoices, logs, and reports to Frantz, Sabrina.
- 36 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 37 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
- 38 Welder cut 8 5/8" casing minimum 5' below ground level.
- 39 MIRU ready cement mixer. Use 4500psi compressive strength cement, (NO gravel) fill stubout.

- 40 Weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number
- 41 Properly abandon flowlines per Rule 1103.
- 42 Back fill hole with fill. Clean location, level.
- 43 Submit Form 6 to COGCC ensuring to provide "As performed" WBD identifying operations completed.