

SCOTTDALE RANCH 7-2 (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 Gyro requested 8/21/13
- 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, circulate to remove gas and kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
- 7 TOO 2-3/8" production tubing. Stand back.
- 8 MIRU WL. RIH gauge ring for 4-1/2" 11.6 #/ft CIBP to 6880'.
- 9 RIH CIBP, set at 6860' (correlate depth from Brandex CBL dated 1/21/2009). POOH. Pressure test CIBP to 1000 psi for 15 minutes. If pressure test passes, RDMO wireline.
- 10 TIH with open ended 2-3/8" tubing to just above CIBP while hydrotesting to 3000 psi.
- 11 RU cement services.
- 12 Spot 30 sx "G" w/ 20% silica flour, 0.4% CD32, 0.4% ASA-301 and R-3 15.8ppg 1.38 cf/sk (In pipe only) from 6821' to 6421'.
- 13 PUH to 6200'. Tubing volume at 6200' approximately 24 bbls. Circulate fresh water with biocide to clear tbg. WOC 4 hrs.
- 14 RUWL. PU and RIH with two 1' perf guns, each 3 spf, 0.50" EHD, 6.0" penetration, 120 deg phasing, 3 shot total perf guns and CCL. Correlate to Brandex CBL dated 1/21/2009 and perf casing at 4790'. PUH and perf casing at 4014' (200' above top of Sussex).
- 15 POOH with CCL and perf guns and RDMO WL.
- 16 RIH with 4-1/2" CICR on setting tool and 2-3/8" tubing, set CICR at 4074' in 4-1/2" casing. Establish circulation with fresh water and biocide through squeeze holes at 4790' and 4014'.
- 17 RU cement services. Pump 20 bbl Sodium Metasilicate ahead of cement. Pump 340 sx "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 cement with 1.15 cuft/sk yield (Cement in open hole based on caliper. 8.25" hole, assume 9' hole, calculate 20% excess). Under displace 3 bbl, sting out of retainer and dump remaining 3 bbl cement on top of retainer.

- 18 PUH to 3700' with 2-3/8" tubing and circulate with drilling mud and biocide until no cement returns to surface. WOC 4 hours.
- 19 RU WL. Crack coupling or shoot off casing at 870'. RDMO WL. Circulate hole using drilling mud with biocide to remove any gas.
- 20 NDBOP, NDTH.
- 21 NU BOP on casing head, install 4-1/2" pipe rams
- 22 TOO H with 4-1/2" casing, LD.
- 23 TIH into csg stub using work string to 970'.
- 24 Pump 160 sx Type III cement with 1.53 cuft/sk yield.
- 25 PUH 200'. Circulate tubing clean with drilling mud with biocide.
- 26 TOO H. WOC overnight.
- 27 TIH and tag. If cement is below 400', discuss with production engineer and COGCC.
- 28 RU Wireline services. RIH 8-5/8" CIBP to 100'. Set, PT to 1000psi for 15 min. If plug holds, RDMO WL and RDMO WO rig.
- 29 Supervisor submit paper copies of all invoices, logs, and reports to Frantz, Sabrina.
- 30 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 31 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
- 32 Welder cut 8 5/8" casing minimum 5' below ground level.
- 33 MIRU redimix. Use 4500psi compressive strength cement, (NO gravel) fill stubout.
- 34 Weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 ¼ descriptor) and API number
- 35 Properly abandon flowlines per Rule 1103.
- 36 Back fill hole with fill. Clean location, level.
- 37 Submit Form 6 to COGCC ensuring to provide "As performed" WBD identifying operations completed.