

V C Leclerg GU 1 Remedial Cement.docx

- 1 Call Foreman or Field Coordinator before rig up to isolate production equipment. Catch and remove plunger. Call 24 hours prior to the rig moving onto location so that any automation equipment can be removed prior to the rig showing up. NOTE: Report surface casing pressure in OpenWells. If surface casing is not accessible at ground level, re-pipe so valve is at ground level.
- 2 Level location for base beam rig.
- 3 MIRU slickline. RIH to retrieve production equipment. RIH and tag for fill. Note tagged depth in OpenWells. RDMO slickline.
- 4 MI & spot at least 5 jts 2-3/8", 4.7#, J-55 EUE TBG for cleanout/replacement and 160 jts of 1-1/4", 2.3#, J-55 10rd IJ tubing for annular job.
- 5 MIRU WO Rig, flat tank, & rig pump. Relieve pressure from well & control with biocide treated fresh water. ND WH and NU BOP. Unseat landing joint and LD.
- 6 MIRU EMI services. TOOH with 2-3/8" TBG. EMI on TOOH. LD joints with wall loss or penetrations > 35%. Replace joints as necessary. **Keep yellow & blue band tubing. Note joint number and depth of tubing leak(s) on PRODUCTION EQUIPMENT FAILURE REPORT IN OPEN WELLS.
- 7 PU retrieving head and RBP (10k rated above and below) and RIH on 2-3/8" TBG. Set RBP at 6930'. (nearest collars at 6910' and 6950'). Circulate out any gas and load hole. Pressure test RBP to 1000 psi. If pressure test fails, call Evans office for alternate procedures.
- 8 Stack out TBG on RBP. ND BOP.
- 9 ND existing TBG head off 4-1/2" CSG and install new WHI 5000 psi flanged tubing head complete with 5000 psi rated casing valves. Install 7-1/16", 5000 psi tubing head adapter with new 5000 psi master valve with 2-3/8" 8 round threaded connection.
- 10 Make up stacked out TBG string into tubing head adapter.
- 11 Pressure test RBP/casing to 1000 psi for 15 min.
- 12 If pressure test unsuccessful, call Evans office for alternate procedures.
- 13 ND TBG head adapter and master valve. Stack out TBG on RBP. NU BOP.
- 14 POOH and stand back 2-3/8" TBG. LD retrieving head.
- 15 ND BOP. ND WH. Unland 4-1/2" casing. NU double entry flange.
- 16 PU 1-1/4", 2.3#/ft J-55 10rd IJ tubing and TIH outside 4-1/2" casing and open hole to 4800'. Circulate with biocide treated fresh water on TIH.
- 17 MIRU cement services. Mix and pump cement job as follows: Freshwater spacer, 20 bbls Sodium Metasilicate, 590 sx G neat cement with ¼#/sk cello-flake mixed at 15.8 ppg & 1.15 cuft/sk. The cement is to be retarded for 125 degF for a six hour pump time. (Attempt to cement from 4800' to 3840'). Design is for 11.5" & 11" hole (caliper), 4.5" casing, 960' w/ 20% excess.
- 18 PUH to 700' and pump additional cement as follows: 180 sx 14.0 ppg Type III cement with ¼#/sk cello-flake mixed at 1.53 cuft/sk. The cement is to be retarded for 125 degF for a six hour pump time. (Attempt to cement from 700' to 285'). Design is for 11" hole, 4.5" casing, 415' w/ 20% excess (no caliper).
- 19 PUH to trip out of the hole with 1-1/4" tubing and shut in well.
- 20 Rig down cementing services.
- 21 Reland 4-1/2" CSG. ND double entry flange. NU WH. SDFN to WOC.
- 22 MIRU wireline services.
- 23 PU and RIH with CCL-GR-CBL-VDL. Tie into GR on Welex CDL dated 5/6/75. Run from 5000' to surface. RDMO wireline. If the shallow plug TOC is not above 285' then contact engineer.
- 24 NU BOPs. PU and TIH with 2-3/8" TBG and RBP retrieving head. Latch onto RBP and release. POOH and stand back 2-3/8" TBG. LD RBP and retrieving head.
- 25 MIRU hydrotester.

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- 26 PU & RIH with 2-3/8" NC, 2-3/8" XN profile nipple, 120 joint 2-3/8" TBG, Arrowset AS-1X packer (10k psi rated), and 2-3/8" TBG. Hydrotest tubing to 6000 psi while RIH. Set packer at 4000', according to collars on new CBL. End of tubing should be landed at +/- 7728'.
- 27 Load backside with biocide treated water and pressure test packer to 1000 psi for 15 min.
- 28 ND BOP. NU WH. Ensure all valves on TBG head are rated to 5000 psi and ensure TBG head has a new R-46 ring gasket installed.
- 29 Hydrotest TBG head and master valve to 5000 psi. If pressure test fails, call Evans office for alternate procedures.
- 30 RDMO hydrotester. RDMO WO rig.
- 31 Return well to production team.
- 32 END OF SAFETY PREP STEPS. BELOW ARE STEPS FOR UN-PREPPING THE WELL.
- 33 When notification is sent to un-prep well, MIRU WO rig.
- 34 Control well with biocide treated water.
- 35 ND WH. NU BOP.
- 36 Release Arrowset AS-1X packer and POOH with 2-3/8" TBG, Arrowset packer, XN profile nipple, and NC while standing back TBG and laying down packer.
- 37 Return packer to shop were purchased and have redressed.
- 38 PU & RIH with 2-3/8" NC, 2-3/8" XN profile nipple (ensure nipple is input into OpenWells), and 2-3/8" TBG.
- 39 Clean out to PBTD at 7874' using biocide treated water. Bail as necessary.
- 40 PUH and land TBG at 7728', which is approximately 1 joint above the top JS perf.
- 41 RU rig lubricator. Broach TBG to SN. RD rig lubricator.
- 42 ND BOP, NU WH.
- 43 Hydrotest TBG head and master valve to 5000 psi. If pressure test fails, call Evans office for alternate procedures. RDMO hydrotesters.
- 44 RDMO WO rig. Swab well back if needed. Return well to production team.