

D K Norgren Unit C True #1 – Single Stage Bradenhead Squeeze

- 1 Well needs single stage bradenhead squeeze.
- 2 Well had gyro survey completed 12/18/2014.
- 3 Contact field foreman or field coordinator before rig up to isolate production equipment. Catch and remove plunger. Enter plunger into PLUNGER DATABASE. Call prior to the rig moving onto location so that any automation equipment can be removed prior to the rig showing up. Install fence if needed. If surface casing is not accessible at ground level, re-pipe so valve is at ground level. Plug all disconnected valves around wellhead.
- 4 Level location for base beam rig.
- 5 MIRU slickline. RIH to retrieve production equipment and tag fill (last tag depth at +/- 7,782' on 3/17/06). RDMO slickline.
- 6 Spot appropriate number of drill collars to drill out cement plug at +/- 1,200' in 5 ½" 15.5# J-55 casing.
- 7 MIRU workover rig. Control well with biocide treated water.
- 8 ND wellhead and NU BOP.
- 9 Unseat tubing hanger. LD landing joint and tubing hanger.
- 10 MIRU EMI services. EMI 2 3/8" tubing on TOOH and tally while standing back tubing. Lay down joints with wall loss or penetrations >35%. Replace bad joints as necessary. Note joint number and depth of bad tubing and create production equipment failure report in Open Wells. RDMO EMI services.
- 11 PU and RIH 10,000 psi rated RBP above and below (5 ½", 17#, N-80) and set RBP at +/- 7,690'.
- 12 Circulate out any gas and load hole. Pressure test the RBP to 1,000 psi for 15 minutes. Spot 2 sacks of sand on top of RBP.
- 13 TOOH with 2 3/8" tubing, SB tubing.
- 14 If needed, ND BOP and existing tubing head off of 5 ½" casing, install new WHI 7 1/16", 5,000 psi flanged tubing head complete w/ 5,000 psi rated casing valves, NU BOP.
- 15 MIRU WL. Run CCL-GR-CBL-VDL from 7,690' to 0'. If cement is not above 4,000', contact engineering for a modified procedure. E-mail logs to engineering and DJVendors@anadarko.com.
- 16 PU and RIH with CCL and 3 1/8" perforating gun, 0.38" EHD charge, 3 spf, 120 deg phasing, 1 ft total. Perforate 5 ½" casing at +/- 1,300' avoiding any collars identified by CCL. POOH, RDMO WL.
- 17 Establish circulation with rig pump at greater than 2 BPM. Circulate at least 130 bbls (1.5X annular volume) until well is dead. If circulation cannot be established, contact engineering for a modified procedure.

Well needs single stage bradenhead squeeze

Work in Preparation for Top Gun Campaign; ~1,070' from closest planned horizontal

Prep Type: Full Circle

Crops

Gyro survey completed on this well 12/18/2014

Nio Top: 6964'; TOC: 3683' (Estimated)

Appears to be casing issue above J Sand perfs (per 3/20/2006 operations report)

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- 18 MIRU cement company. Establish circulation with biocide treated water and commence pumping cement job consisting of 5 bbls fresh water, 20 bbls sodium metasilicate, 5 bbls fresh water, and 93 bbl (300 sx) of ControlSet-C (Sanjel blend) with ¼ lb/sk cello flake mixed at 13.5 ppg and 1.74 cuft/sk (cement from 1,300' to 640'). Drop wiper plug and displace with +/- 28 bbls biocide treated water (leave ~100' of cement in casing).
- 19 Break lines, clean up with fresh water, RDMO cement company.
- 20 Leave well shut in 48 hours.
- 21 PU drill collars and appropriate bit/mil and TIH with 2 3/8" tubing and crossover. Rig up power swivel and cleanout to +/- 1,500'.
- 22 Pressure test casing to 1,000 psi for 15 minutes. If pressure does not hold, contact engineering for further support. TOOH 2 3/8" tubing, drill collars, and bit. SB tubing and LD drill collars and bit.
- 23 MIRU WL. Run CCL-GR-CBL-VDL from 1,500' to 0'. If cement is not above 640', contact engineering for support. E-mail logs to engineering and DJVendors@anadarko.com. RDMO WL.
- 24 TIH with retrieving head and 2 3/8" tubing, tag sand above RBP at +/- 7,690'. Circulate sand off RBP, latch onto and release RBP. TOOH standing back tubing and LD RBP.
- 25 If fill is encountered above 7,794' (bottom J Sand perf), PU and TIH w/ 2 3/8" hydrostatic bailer assembly and 2 3/8" tubing. Bail sand to PBMD at +/- 7,872'. TOOH, SB tubing, LD bailer assembly.
- 26 PU & TIH with 2 3/8" NC, 2 3/8" XN nipple, and 2 3/8" tubing. Land tubing at +/- 7,735' (1 joint above top J Sand perf). Verify XN nipple size and enter in Open Wells.
- 27 RU rig lubricator. Broach tubing to XN nipple. RD rig lubricator.
- 28 ND BOP, install 7 1/16", 5,000 psi flanged tubing head adaptor w/ new 2 1/16", 5,000 psi flanged master valve.
- 29 MIRU hydrotester. Install 2 3/8" pup joint above master valve. Hydrotest wellhead to 5,000 psi from below tubing head through master valve for 15 minutes.
- 30 Secure wellhead, RDMO WO rig.

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