

Erie Corp USX UU 10-17 – Nio Squeeze

- 1 Dump 2 sks of sand onto rbp (set at 8,210'). PU & RIH with 3-1/8" guns and shoot squeeze holes at 7,430' (collars at 7,410' and 7,450'). Using 3 SPF, 0.38" EHD, 33.65" penetration, 1' net, 3 total shots, 3 per perf depth. POOH with perf guns.
- 2 Establish injection rate and pressure. If injection rate can't be established CONTACT EVANS FOR NEW PROCEDURE.
- 3 PU & RIH with CCL & CICR and set at +- 7,335' (collars at 7,327 and 7,368) . NOTE: CICR can be set on 2-3/8" TBG if desired.
- 4 MIRU Cementing Services
- 5 Establish injection rate with fresh water, keeping casing valve open for circulation. Once injection rate has been established, mix and pump 180 sks cement as follows: 54.7 bbl of cement (50/50 POZ "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52, Mixed at 13.5 ppf and 1.71 (yield) cuft/sk). Volumes calculated using 510' between 10" hole and 4-1/2" casing + 30% excess, with perfs @ 7,430' and CICR @ 7,335'.
- 6 Pump in cement and displace with 27 bbl of fresh water, Sting out of CICR and dump remaining cement on CICR (about 1 BBL).
- 7 TOO H to have EOT at +-7,000' (about 330' above CICR). Reverse circulate down csg an up tbg using biocide treated water until clear. TOO H with tbg and SB before SDFN.
- 8 WOC overnight. (DO NOT PRESSURE TEST UNTIL CBL IS RUN)
- 9 MIRU E-Line service company.
- 10 PU and RIH w/ CCL-CBL-VDL tools and log from cement above CICR at +/- 7,265' (about 65' above CICR) to surface. NOTE: TOC MUST BE ABOVE 7,123' (400' ABOVE TOP OF NIOBRARA FORMATION AT 7,523'). IF INSUFFICIENT CEMENT, CONTACT EVANS FOR NEW PROCEDURE.
- 11 POOH, RDMO E-Line service company.
- 12 PU & TIH with 3-7/8" bit (rock, blade, etc.) and 2-3/8" TBG. Drill out cement, CICR, and CIBP, push to PBMD at 8,424' (bottom production perfs at 8,291').
- 13 TOO H with 2-3/8" tbg and 3-7/8" bit, SB TBG and BIT
- 14 ND BOP, ND existing tbg head off of 4-1/2" csg and install WHI 5,000 psi flanged tubing head complete w/ 5,000 psi rated casing valves. Install 7-1/16" x 2-1/16" 5,000 psi tubing head adaptor and new flanged 5,000 psi master valve with 2-3/8" EUE companion flange on top. Make sure all wellhead valves are rated to 5,000 psi (2 csg valves, and master valve).
- 15 Pressure test the casing and tubing head to 1,000 PSI, for 15 min. If pressure test fails, contact Evans office for possible change in procedure
- 16 ND tubing head adaptor and master valve, NU BOP
- 17 Hydrotest tbg to 6,000 psi while TIH. Land EOT at +/- 8,230 or one joint above the top of JSND perfs (8,269' – 8,291')
- 18 ND BOP, NU WH.
- 19 Install 2-3/8" pup joint above master valve. Pressure test TBG head from below TBG head through master valve w/ hydrotester to 5,000 psi.
- 20 RU rig lubricator. Broach tbg to seating nipple. RD rig lubricator.
- 21 RDMO WO Rig. Return well to production team

TOC: 7460; NB top: 7523'

NPV: UNKNOWN

Last Pressure Test: UNKNOWN

Remedial Cement, Prep and Produce