

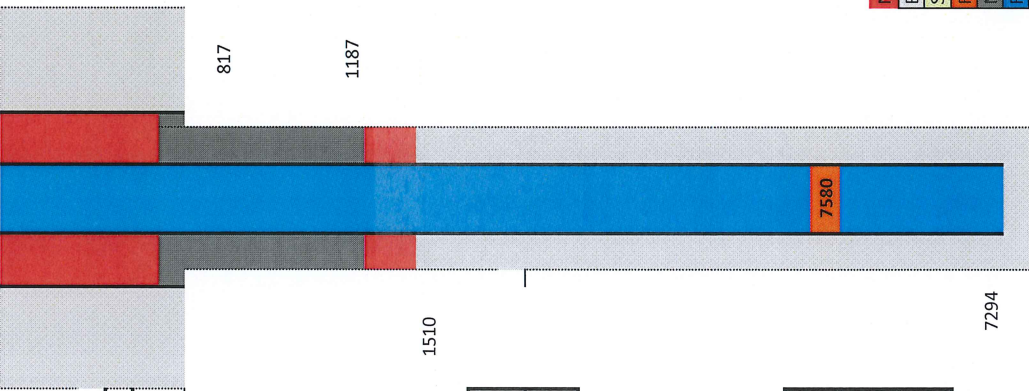
Commons 28-19 – Bradenhead Procedure

- 1 Call Foreman or Lead Operator at least 24 hr prior to rig move. If not already completed, request that they catch and remove plunger, isolate production equipment and remove any automation equipment prior to the rig showing up. Install perimeter fence as needed.
- 2 MIRU Slick line. Fish plunger if necessary and tag for PBTD (should be at 8197').
- 3 Prepare location for base beam rig.
- 4 Spot 12 jts of 2-3/8" 4.7# J-55 8RD EUE tbg.
- 5 Spot 40 jts of 1-1/4" 2.33# J-55 10rd IJ tbg.
- 6 Check wellhead for 5,000 psi rating. If wellhead is not rated to 5,000 psi, install one that is prior to completing the job.
- 7 MIRU WO rig. Kill well with fresh water with biocide. ND wellhead, NU BOPs.
- 8 Run two 2" or one 3" line(s) from starting head to return tanks
- 9 PU 8-10' landing joint with TIW safety valve on top and screw into the tbg hanger. Back out the lock down pins and pull up on the tbg string to break any possible sand bridges. Do not exceed 80% of tubing tensile strength, or 57,384-lb.
- 10 Unseat tbg hanger and LD tbg hanger and landing joint. Install rubber wiper in stripping head.
- 11 MIRU EMI equipment. TOOH with 2-3/8" tbg. EMI tbg while TOOH. Lay down joints with wall loss or penetrations >35%. Replace joints as necessary. Keep yellow and blue band tubing. Note joint number and depth of tubing leak(s) on production equipment failure report in OpenWells. Clearly mark all junk (red band) tubing sent to yard.
- 12 TIH with 2-3/8" tbg and 4.5" RBP. Set RBP at +/- 7580' (Collars at 7564' and 7608').
- 13 Pressure test RBP to 1,000 psi for 15 minutes. (Pressure test to make sure plug is set correctly)
- 14 Spot 2 sx sand on top of RBP and TOOH. SB tbg.
- 15 ND bop, ND tubing head. Un land 4-1/2" csg string. NU double entry flange, NU BOP.
- 16 PU and TIH with 40 jts of 1-1/4" 2.33# J-55 10rd IJ tbg outside 4 1/2" csg to +/- 1187'. Circulate while TIH to condition hole.
- 17 MIRU Cement company.
- 18 Commence pumping cement job at pump rate of consisting 5 bbl fresh water, 20 bbl sodium meta silicate and 5 bbl fresh water; 19 bbl (70 sx) of Type III + with CaCl₂ and 1/4 lb/sk PS Flake mixed at 14.0 ppg and 1.53 cuft/sk blended for a 3 hr pump time (Cement from 1178' to 817').
- 19 TOOH with 23 jts of 1-1/4" tbg and circulate 2x tubing volume or until cement cleans up. TOOH remaining 1-1/4" tbg and LD all 1-1/4" tbg.
- 20 Break lines and clean up with fresh water. RMDO cement company.
- 21 ND bop, ND dual entry flange. NU 2-3/8" tbg head and BOP.
- 22 Leave well shut in for 24 hours.
- 23 Circulate gas out of hole with fresh water with biocide.
- 24 MIRU wire line and run CCL-GR-CBL-VDL from 1200' to 0'. If cement is not above 817', contact engineering for further instructions. RDMO wire line.
- 25 Pressure test csg to 5,000 psig. If pressure does not hold, contact engineering for further support.
- 26 TIH with 2 3/8" tbg and retrieving head and tag sand above RBP. Circulate sand off RBP. Latch onto RBP at +/- 7380' and release RBP. TOOH standing back all 2 3/8" tbg and LD RBP.

- 27 TIH with 2-3/8" XN SN and 2-3/8" 4.7# J55 EUE tbg. Land tbg @ +/- 8055' (1 jt above top Codell perf). Broach tbg to XN nipple.
- 28 ND BOP, Install 7 1/16" x 5,000 psi tubing head adaptor with new 5,000 psi master valve threaded 2 3/8" connection. Make sure all wellhead valves are rated to 5,000 psi.
- 29 NU master valve and hydrotest tubing head to 5,000 psi for 15 minutes.
- 30 RMDO WO rig.
- 31 Clean location and swab well back to production. Notify field foreman/field coordinator of finished work and turn well back over to production team.

Existing

KB=10'
Commons 28-19
API #051232921



8-5/8" 24#/ft J-55 STC
12-1/4"

Surface casing 917
Fox Hills Base 502
Fox Hills Marker 987

TOC 1510

Sussex Top	No perfs 4720
Shannon Base	No perfs 5368

Niobrara Top	7700-7988 7694
Codeil Top	8085-8098 8087

4-1/2" 11.6 #/ft I-80 LTC 7294

Type III	Fox Hill Cement
	Wellbore Diameter (in) 8.00
	Hole/Csg Capacity (ft3/ft) 0.24
	Cement Coverage Height (ft) 370
	Cement Volume (ft3) 88
	20% Excess (ft3) 106
	Cement Vol (bbl) 19
	Sx 69

