WORKOVER PROCEDURE

WELL NAME:	Winter 9-19	**DATE:**	3/7/2017
LOCATION:			
Qtr/Qtr:	NESE	Section: 19	Township: 6N	Range: 64W
Footages:	1817 FSL & 720 FEL		
COUNTY:	WELD	STATE:	CO	API #: 05-123-21866

ENGINEER: Brian Ulmer
(Please notify Engineer of any major changes prior to work)

7 Day Notice Sent:
Do not start operations until:
Notice Expires:

OBJECTIVE: P&A

WELL DATA:

Surface Csg:	8-5/8", J-55, 24# @ 538'	KB Elevation:	4,724
Surface Cmt:	380 sx	GL Elevation:	4,712
Long St Csg:	4-1/2", I-80, 11.6# @ 7135'	TD:	7,147
Long St Cmt:	520 sx	PBTD:	7,107
Long St Date:	12/24/2003		

Plug Back (Sand or CIBP):	***Sand***
Perforation Interval (1):	Niobrara Perforations: 6714' - 6870'
Perforation Interval (2):	Codell Perforations: 6982' - 6996'
Perforation Interval (3):	
Tubing:	2-3/8", J-55, 4.70# @ 6954' Rods:
Pump:	
Misc.:	

PRODUCTION STATUS: Producing
COMMENTS: Base of Fox Hills - 370'. Deepest water well within 1 mi - 575'.

PROCEDURE:

1) Ensure Form 17 has been performed.

2) MIRU Workover rig, pump & tank.

3) Blow down well and roll hole with fresh water, if possible.

4) ND WH, NU BOP.

5) POOH and LD tbg.

6) RIH w/ wireline and set CIBP. Set CIBP @ 6664'.

7) Dump bail 2 sx of Class G Neat cement on top of CIBP.

8) Load hole with fluid and pressure test CIBP to 1000 psi with rig pumps. Hold for 15 minutes.
Test will be considered successful if lose less than 100 psi. If test is unsuccessful, contact engineer.

9) RIH w/ workstring to 4098' and circulate hole clean. At least 2 BU volumes, 82 bbls.

10) Pump 55 sacks balanced plug, class G neat cement (1.15 cuft/sack).
Plug should extend from 3376' to 4098'
- assume 4" ID production casing

11) Displace cement with 11 bbls fresh water.
- underdisplace 2 bbls short of workstring volume to final top of plug.
- assuming 2-3/8" 4.7 ppf workstring

12) POOH with workstring to 3176', 200' above top of plug, and circulate hole clean.

13) POOH w/ workstring.

14) Perforate casing at 2500' with 1' perf gun 4-6 spf.

15) RIH w/ workstring and CICR and set a CICR at 2400'

16) Load annulus between production casing and workstring. Test to 500 psi for 15 minutes.
Test is considered successful if lose less than 50 psi. If pressure test fails, contact engineer.

17) Establish injection rate

18) Pump 10 bbls mud flush. Pump 210 sacks class G neat cement (1.15 cuft/sack).
Plug should extend from 2500' to 2000' in annulus and 10 sacks on top of CICR.
- assume 4-1/2" OD production casing and 10" open hole
- add 10 sacks to volume to place on top of CICR.

19) Displace cement with 7.2 bbls fresh water.
- underdisplace 2 bbls short of workstring volume to top of CICR to place 2 bbls (10 sacks) on top of CICR.
- assuming 2-3/8" 4.7 ppf workstring

20) Unsting from CICR

21) Place remaining 2 bbls of cement on top of CICR. Allow to fall on CICR as pulling out.

22) POOH w/ workstring.

23) RIH w/ wireline and cut production casing at 725'.

24) Circulate a MINIMUM of 2 bottoms up volumes (76 bbls) or until well is free of oil, gas and any large cuttings

25) Perform flow check for 5 minutes to ensure well is static and record current fluid weight in Wellview

26) Unland production casing

27) POOH and LD production casing filling pipe every 6 joints.

28) RIH w/ workstring to 725' (top of casing).

29) Establish circulation.

30) Pump 10 bbls Mud Flush (or similar spacer) followed by 256 sacks of class G neat cement as a balanced plug.
TOC should be at surface.

31) POOH w/ workstring. Top off cement if needed. Cement needs to be ~10' from surface.

32) ND BOP. Top off cement as needed.

33) Clean up location. Reclaim location. RDMO.