



## Wells Ranch USX AA33-08

*P&A Procedure*

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### LOCATION:

Qtr/Qtr: SE/NE Section: 33 Township: 6N Range: 63W  
 Footages: 1896 FNL & 551 FEL

COUNTY: WELD STATE: CO API #: 05-123-26416

### WELL DATA:

Surface Csg: 8-5/8" 24# J-55 @ 563' KB Elevation: 4795'  
 Surface Cmt: 293 sx GL Elevation: 4782'  
 Long St Csg: 4-1/2" 11.60# M-80 @ 6980' TD: 6988'  
 Long St Cmt: 860 sx PBTD: 6963'  
 Long St Date: 10/17/2007

Plug Back (Sand or CIBP): Sand  
 Perforation Interval (1): Niobrara Perforations 6530'-6546' & 6614'-6630'  
 Perforation Interval (2): Codell Perforations 6787'-6798'  
 Perforation Interval (3): \_\_\_\_\_  
 Tubing: 2-3/8" 4.70# J-55 @ 6771' Rods: N/A  
 Pump: \_\_\_\_\_  
 Misc.: \_\_\_\_\_  
 Misc.: \_\_\_\_\_

### PRODUCTION STATUS:

Producing

### COMMENTS:

Abandoning to accommodate upcoming horizontal wells

### PROCEDURE:

- 1) Bradenhead Form 17 needs to be done by the rig since this is a PG1 LTSI well that hasn't had a recent Form 17. Recover any necessary samples per Form 6 COA; direct sample(s) to DIG/Precision contact for analysis.
- 2) MIRU workover rig, pump, and tank.
- 3) Blow down well and roll hole with fresh water, if possible.
- 4) ND WH, NU BOP.
- 5) POOH and stand back tbq.
- 6) RU WL and RIH w/ CIBP and set @ 6480' (50' above Nio top perf).
- 7) Dump bail 2 sx of Class G Neat cement on top of CIBP.  
TOC: 6454'
- 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/ 1' perforating gun and shoot 4-6 spf @ 1740' (TOC is 1790').
- 10) RIH w/ CICR on workstring and set @ 1640' (100' above perforations).
- 11) 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.
- 12) Establish injection rate.
- 13) Pump 10 bbls Mud Flush (or similar spacer) followed by 210 sx of cement.

Length (ft)	Vol Factor (bbls/ft)	Volume (bbls)	Volume (ft^3)	Yield (ft^3/sk)	Cement (sk)	Next Nearest 5sk
500	0.0775	38.75	217.58	1.15	189.20	--
100	0.0155	1.55	8.70	1.15	7.57	--
129	0.0155	2.00	11.23	1.15	9.76	--
TOTAL:					206.53	210

Calculations assume 10" open hole and last 2 bbls cmt left on top of CICR.

- 14) Displace cement with 4 bbls fresh water (2 bbls short of workstring volume).

Tubing ID	Length (ft)	Disp. Factor (bbl/ft)	Displacement (bbl)	Displacement Minus 2 bbls
1.995	1640	0.00387	6	4

- 15) Unsting from CICR.

- 16) Place remaining 2 bbls of cement on top of CICR. Allow to fall on CICR as pulling out.  
TOC: 1511'

- 17) POOH w/ workstring.

- 18) RIH w/ WL and cut production casing at 763' (200' below surface shoe or deepest water well).

- 19) Circulate a MINIMUM of 2 bottoms up volumes (81 bbls) or until well is free of oil, gas, or any large cuttings.

Length (ft)	Vol Factor (bbls/ft)	Volume (bbls)
563	0.0440	24.77
200	0.0775	15.50
TOTAL x 2:		81

- 20) Perform flow check for 5 minutes to ensure well is static and record current fluid weight in WellView.

- 21) Unland production casing.

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

- 23) RIH w/ workstring to 763' (top of casing).

- 24) Establish circulation.

- 25) Pump 10 bbls Mud Flush (or similar spacer) followed by 270 sx of cement as a balanced plug.  
TOC should be at surface.

Length (ft)	Vol Factor (bbls/ft)	Volume (bbls)	Volume (ft^3)	Yield (ft^3/sk)	Cement (sk)	Next Nearest 5sk
563	0.0636	35.81	201.06	1.15	174.83	--
200	0.0971	19.42	109.04	1.15	94.82	--
TOTAL:					269.65	270

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

- 27) ND BOP. Top off cement as needed.

- 28) RDMO.