



Dos Rios 11-34

P&A Procedure

Engineer: Ben Zapp, PE (303.241.1273)

28 February 2017

API:	05-123-16457	KB Elevation:	4688'
Qtr/Qtr:	NESW	GL Elevation:	4676'
Section:	34	TD:	7330' KB
Township:	5N	PBTD:	7266' KB
Range:	66W		
Footages:	1475 FSL & 2171 FWL	Water Well (ft):	260
County:	Weld	Fox Hills (ft):	301
State:	CO	Sfc Casing (ft):	338
		Shoe Plug (ft):	538

WELL DATA:	Surface Csg:	8.625" 24# J-55 @ 338' KB
	Surface Cmt:	295 sx
	Long St Csg:	4.5" 11.6# N-80 @ 7329' KB
	Long St Cmt:	205 sx
	Long St Date:	3/12/1993
	PDTD (Sand or CIBP):	FILL
	Perforation Interval (1):	Niobrara Perforations: 6886-7007' KB
	Perforation Interval (2):	Codell Perforations: 7177-7187' KB
	Perforation Interval (3):	
	Tubing:	2.375" 4.7# J-55 @ 7159' KB
	Rods:	
	Pump:	
	Misc.:	
STATUS:		
COMMENTS:		

Procedure:

- 1) MIRU workover rig, pump, and tank.
- 2) Blow down well and roll hole with fresh water, if possible.
- 3) ND WH, NU BOP.
- 4) POOH and LD tbg.
- 5) RIH w/ CIBP on wireline and set @ 6836'
- 6) Dump bail 2 sx G Neat cement on top of CIBP
- 7) Load hole with fluid and pressure test CIBP to 1000 psi with rig pumps. Hold for 15 minutes.
Test considered successful if <100 psi drop observed. If test is unsuccessful, contact engineer.

- 8) RIH w/ 1' perforating gun and shoot 4-6 spf @ 2500'.
- 9) RIH w/ CICR on workstring and set @ 2400' (100' above perforations).
- 10) Load annulus between production casing and workstring. Test to 500 psi for 15 minutes. Test considered successful if <50 psi drop observed. If pressure test fails, contact engineer.
- 11) Establish injection rate.
- 12) Pump 10 bbls Mud Flush (or similar spacer) followed by 200 sx of cement (15.8ppg Enhanced PlugCem)

Length (ft)	OD (in)	ID (in)	ft ³ /ft	Volume (ft ³)	Yield (ft ³ /sk)	Cement (sk)	Nearest 5sk
500	10.000	4.500	0.435	217	1.209	180	180
100	4.000	0.000	0.087	9	1.209	7	10
2 bbl on top of CICR				11	1.209	9	10
						TOTAL:	200

- 13) Displace cement with 7 bbls fresh water.

Tubing ID	Length (ft)	Disp. Factor (BBL/ft)	Disp (BBL)	Disp -2BBL
1.995	2400	0.00387	9	7

- 14) Unsting from CICR.
- 15) Place remaining 2 bbls of cement on top of CICR. Allow to fall on CICR as pulling out.
- 16) POOH w/ workstring.
- 17) RIH w/ WL and cut production casing at 538'.
- 18) Circulate a MINIMUM of 2 bottoms up volumes from surface casing cut (61 bbls) or until well is free of oil, gas, or any large cuttings.

Length (ft)	OD (in)	ID (in)	BBL/ft	Disp (BBL)	2x Disp (BBL)
338	8.097	4.500	0.0440	15	30
200	10.000	4.500	0.0775	15	31
				TOTAL:	61

- 19) Perform flow check for 5 min to ensure well is static. Record current fluid weight in WellView.
- 20) Unland production casing.
- 21) POOH and LD production casing filling pipe every 6 joints.
- 22) RIH w/ workstring to 588' (50' inside top of cut casing)
- 23) Establish circulation.
- 24) Pump 10 bbls Mud Flush (or similar spacer) followed by 160 sx of 15.8 ppg Enhanced PlugCem cement as a balanced plug. TOC @ 288'.

Length (ft)	OD (in)	ID (in)	ft ³ /ft	Volume (ft ³)	Yield (ft ³ /sk)	Cement (sk)	Nearest 5sk
50	8.097	0.000	0.358	18	1.209	15	15
200	12.250	0.000	0.818	164	1.209	135	140
50	4.000	0.000	0.087	4	1.209	4	5
						TOTAL:	160

25) SDFN and ensure well has no pressure prior to pumping second plug to surface. If pressure is present, please contact engineer.

26) RIH w/ workstring to 288' tag TOC.

27) Roll hole followed by 90sx of 15.8 G Neat to surface.

Length (ft)	OD (in)	ID (in)	ft ³ /ft	Volume (ft ³)	Yield (ft ³ /sk)	Cement (sk)	Nearest 5sk
288	8.097	0.000	0.358	103	1.150	90	90
						TOTAL:	90

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

29) ND BOP. Top off cement as needed.

30) RDMO

