

State M36-09

P&A Procedure

Ben Zapp, PE (303-241-1273)

2 March 2017



API:	05-123-23207	KB Elevation:	4735'
Qtr/Qtr:	NESE	GL Elevation:	4719'
Section:	36	TD:	7686' KB
Township:	6N	PBTD:	7588' KB
Range:	67W		
Footages:	2373 FSL & 209 FEL	Water Well (ft):	680
County:	Weld	Fox Hills (ft):	255
State:	CO	Sfc Casing (ft):	536
		Shoe Plug (ft):	880

WELL DATA:	Surface Csg:	8.625" 24# J-55 @ 536' KB
	Surface Cmt:	375 sx
		4.5" 11.6# WC-80 @ 7680'
	Long St Csg:	KB
	Long St Cmt:	700 sx
	Long St Date:	11/3/2005
	PDTD (Sand or CIBP):	PLUG REMNANTS
	Perforation Interval (1):	Niobrara Perforations: 6748-6896' KB
	Perforation Interval (2):	Codell Perforations: 7069-7087' KB
	Perforation Interval (3):	
	Tubing:	2.375" 4.7# J-55 @ 7061' 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 @ 6698'
- 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 workstring to 2500', pump a 40x balanced plug of 15.8ppg G Neat. Calculated TOC @ 2000ft. (existing annular cement 1740' – 4840')

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Length (ft)	OD (in)	ID (in)	ft ³ /ft	Volume (ft ³)	Yield (ft ³ /sk)	Cement (sk)	Nearest 5sk
500	4.000	0.000	0.087	44	1.150	38	40
						TOTAL:	40

9) RIH w/ WL to 880' and cut production casing.

10) Circulate a MINIMUM of 2 bottoms up volumes from surface casing cut (102 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)
536	8.097	4.500	0.0440	24	47
20	12.250	4.500	0.1261	3	5
324	10.000	4.500	0.0775	25	50
				TOTAL:	102

11) Perform flow check for 5 min to ensure well is static. Record current fluid weight in WellView.

12) Un-land production casing.

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

14) RIH w/ workstring to 930' (50' inside top of cut casing)

15) Establish circulation.

16) Pump 10 bbls Mud Flush (or similar spacer) followed by 345 sx of 15.8 ppg G Neat cement as a balanced plug. TOC @ Surface

Length (ft)	OD (in)	ID (in)	ft ³ /ft	Volume (ft ³)	Yield (ft ³ /sk)	Cement (sk)	Nearest 5sk
536	8.097	0.000	0.358	192	1.150	167	170
20	12.250	0.000	0.818	16	1.150	14	15
324	10.000	0.000	0.545	177	1.150	154	155
50	4.000	0.000	0.087	4	1.150	4	5
						TOTAL:	345

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

18) ND BOP. Top off cement as needed.

19) RDMO

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