

6-29-20

Airco Federal #2 PnA Procedure Document 1, API 05-083-06536

- 1. Submit PnA Notice of Intent to COGCC office.**
- 2. Site visit, pre-check rig anchors and required equipment removal**
- 3. Mobilize Well Service Equipment**
- 4. Rig up well service equipment.**
- 5. Pump 15 bbls water down tubing and 15 bbls water down casing-tubing annular to stabilize pressure to static. Note Surf/Prod Tubing SI pressure 300 psi.**
- 6. Secure well head. Screw off Larken Head. Make up 5-1/2 X 9-1/16 screw on well head flange and NU BOPE, PT 800 psi.**
- 7. POOH and lay down 1-1/2 production tubing (2216 ft) on pipe float and transport to operator yard.**
- 8. Pick up and strap 2-7/8 6.5# work string.**
- 9. Run bit & scraper on work string to 15 ft above top of perforations to 2165, circulate hole if possible.**
- 10. POOH, remove bit-scraper**
- 11. Tubing set CIBP set at 2150' and pump 5 sxs 15.8 ppg 1.15 yield Type A cmt on top of CIBP. Note all cmt plugs will be mixed at a 1.15 cft/sx yield. Notify BLM field representative 24 hrs prior to setting first CIBP and or for any perforating for cement downhole activity.**
- 12. Circulate 38 bbl corrosion inhibited water spacer to Surface casing shoe.**
- 13. POOH LD tbg on float to depth of plug #2 bottom @ 562.**
- 14. Pump 10 sx cement plug #2 from 562-512.**
- 15. Circulate 10 bbl corrosion inhibited water spacer to Surface.**
- 16. LD tbg on float to 100 ft below surface.**
- 17. Pump 20 sx surface plug #3 from 100-0 ft.**
- 18. Cut off well head 3 ft below ground level**
- 19. Install subsurface P&A Marker**
- 20. Transfer rental tbg to yard**

- 21. Transfer waste fluid to disposal site**
- 22. Rig down, move equipment off location**

Notes:

Separator and line will be moved before mobilization.

Rig can back up to well where separator is positioned. Pit and pump might fit front left corner (just left of square trench excavation).

Reclaimed dirt piles cannot be disturbed.



Wellbore Schematic	Current
Well Name	Airco Federal #2 API 05-083-06536
Field	McElmo #53674. Montezuma County #083, CO
Location, Surface	2231 FWL, 878 FNL Sec 25 T36N R18W
Subsurface	3728 FWL 292 FSL Sec 24 T36N R18W
Drilled	8/5/1991

Conductor Csg:
None. Drilled 9-7/8" pilot hole to 50 ft. Ream pilot hole to 12-1/4".

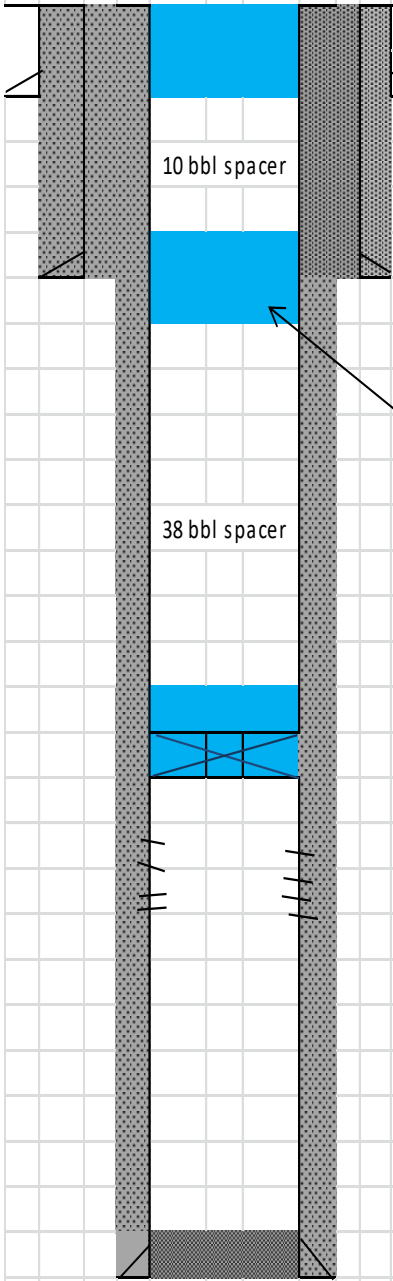
Surface Csg:
12-1/4 hole 9-5/8 36# J-55 537 ft
230 sx CL G CL G + 2% CaCl₂ (265 cft)
TOC Surface, 16 bbls cement circulated to surface.

Production Tubing:
1-1/2 2.4# 10 rnd IJ landed at 2216 ft, SN 2181 ft

Shinarump Formation
Perforations:
2180-2200

String 1
Production Csg:
8-1/2 hole 5-1/2 K-55 LTC 15.5# at 2315 ft
Lead Slurry: 240 sx 85/15 Poz Y=2.26 cft/sx
Tail Slurry: 185 sxs CI B + 1% CF + 3% KCL +3#/sx Hiseal 15.6 ppg 1.19 cft/sx
TOC Surface, Circulated 5 bbl cement to surface
PBSD 2272 MD TVD 1589
TMD 2318 TVD 1616

Wellbore Schematic	Plug & Abandonment Proposed			
Well Name	Airco Federal #2 API 05-083-06536			
Field	McElmo #53674. Montezuma County #083, CO			
Location, Surface	2231 FWL, 878 FNL Sec 25 T36N R18W			
Subsurface	3728 FWL 292 FSL Sec 24 T36N R18W			
Drilled	8/5/1991			
		Plug #3 (Surface Plug 0-100 ft)		
		20 sxs		
		Conductor Csg:		
		None. Drilled 9-7/8" pilot hole to 50 ft. Ream pilot hole to 12-1/4".		
		Surface Csg:		
		12-1/4 hole 9-5/8 36# 537 ft		
		230 sx CL G + 2% CaCl2 (265 cft)		
		TOC Surface, 16 bbl cmt circulated to surface		
		Plug #2 (512-562 ft)		
		10 sxs		
		Corrosion Inhibited Fresh Water		
		Plug #1 (2140 - 2150 ft)		
		Set 5-1/2 CIBP at 2150 with 5 sxs cmt on top		
		Perforations: (Shinarump Formation)		
		2180-2200		
		String 1		
		Production Csg:		
		8-1/2 hole 5-1/2 K-55 LTC 15.5# at 2315 ft		
		Lead Slurry: 240 sx 85/15 Poz Y=2.26 cft/sx		
		Tail Slurry: 185 sxs CI B + 1% CF + 3% KCL +3#/sx Hiseal 15.6 ppg 1.19 cft/sx		
		TOC Surface, Circulated 5 bbl cement to surface		
		PBTD 2272 MD TVD 1589		
		TMD 2318 TVD 1616		



Airco 2 P&A

1 bbl =	5.61458	cft
1 cft =	0.17811	bbl

	I.D.	bbl/lin-ft	cft/lin-ft
9-5/8" 36#	8.921	0.07731	0.4341
5-1/2 15.5#	4.95	0.0238	0.1336
12-1/4 OH X 9-5/8		0.05578	0.3132
9-5/8 X 5-1/2		0.04793	0.2691
8-1/2 OH X 5-1/2		0.06484	0.3641
5-1/2 X 2-7/8		0.01577	
2-7/8 6.5#	2.441	0.00579	

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