

**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:**

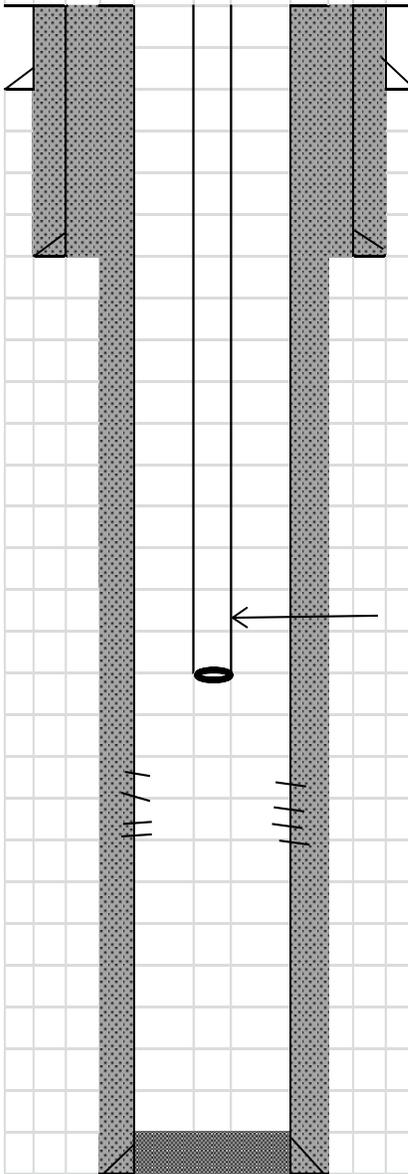
**Separator and line will be moved before mobilization.**

**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		Airc 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 Cl 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

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		
<p>The diagram shows a wellbore with several sections. At the top, there is a blue section labeled 'Plug #3 (Surface Plug 0-100 ft)' with '20 sxs' below it. Below this is a grey section labeled 'Conductor Csg:'. Further down is another blue section labeled 'Plug #2 (512-562 ft)' with '10 sxs' below it. Below that is a grey section labeled 'String 1' with 'Production Csg:'. At the bottom, there is a blue section labeled 'Plug #1 (2140 - 2150 ft)' with 'Set 5-1/2 CIBP at 2150 with 5 sxs cmt on top' below it. Perforations are shown in the 'String 1' section. Spacers are labeled as '10 bbl spacer' and '38 bbl spacer'. The wellbore is shown in cross-section with casing and spacers.</p>	<p><b>Plug #3 (Surface Plug 0-100 ft)</b>  <b>20 sxs</b>  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</p> <p><b>Plug #2 (512-562 ft)</b>  <b>10 sxs</b>  Corrosion Inhibited Fresh Water</p> <p><b>Plug #1 (2140 - 2150 ft)</b>  <b>Set 5-1/2 CIBP at 2150 with 5 sxs cmt on top</b></p> <p>Perforations: (Shinarump Formation)  2180-2200</p> <p>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 Cl B + 1% CF + 3% KCL +3#/sx Hiseal 15.6 ppg 1.19 cft/sx  TOC Surface, Circulated 5 bbl cement to surface  PBD 2272 MD TVD 1589  TMD 2318 TVD 1616</p>		

**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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