Aitken 23-11

NE/SW - Section 23 - T9S - R95W

FEE / FEE

API: 05-077-08558

Lat. 39.260542/Long. -107.96301

Mesa County, Colorado

P&A Procedure

October 9, 2014

Engineer:	Tanner Messer
Production Group Lead:	Mark Thrush
Western Operations Team Lead:	Jeff Balmer

API Number:	05-077-08558	
Spud Date:	November 18, 1983	
GL Elevation:	6429’	
TD:	3053’ MD PBTD 3006. MD	
Surface Casing:	8 5/8” OD, 24 lb/ft, assumed K-55, set at 521 ft.	
Surface Casing Properties:	ID:	8.097”
	Drift ID:	7.972”
	Collapse:	1,370 psig
	Burst:	2,950 psig
	Capacity:	0.0636 BBL/ft
Production Casing:	4 ½” OD, 11.6 lb, N 80 set at 6140’ ft.	
Production Casing Properties:	ID:	4.000”
	Drift ID:	3.875”
	Collapse	6,350 psig
	Burst	7,780 psig
	Joint Yield Strength	248,000 lb
	Capacity:	0.0155BBL/ft 64.3384 ft/bbl.
	Capacity 8 5/8” x 4 ½” casing:	0.0440 BBL/ft 22.7187 ft/bbl.
Tubing:	2 3/8” tubing. EOT @ 5285’	
Perfs:	5792’ to 6030’ Corcoran & Cozzette formation 4685’ to 4773’ Mesa Verde	

Objective

Plug and abandon the Aitken 23-11

Background

The Aitken 23-11 is a vertical well drilled in November of 1983. There is T&A status on this well and now the well has moved on to P&A status.

Safety

Safety meetings are to be held with all service company personnel prior to each job. Wellsite supervisor must notify contractors as to known hazards of which the contractors may be unaware. Well site supervisor must ensure that all workers are aware of their responsibilities and duties under the EH&S guidelines. All safety meetings will be recorded on the EnCana daily completion reports in Well View. Wellsite supervisor is responsible to ensure that all utility one calls and ground disturbance forms are completed and on location for safety review. All JSA, Ground disturbance forms and Utility one call paper work is to be turned in to Parachute safety department at the completion of the job.

Regulations

All verbal notifications and approval from government regulatory agencies will be recorded on the EnCana daily report. The name of the individual contacted and the subject matter of approval or notification will be recorded.

Plug & Abandon Procedure

1. Notify the COGCC at least 48 hours before plugging operations commence.

2. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.

3. MIRU pulling unit. Kill well.

4. ND wellhead, NU BOP.

5. TOH w/ 2 3/8" tubing standing back. Call for 2 3/8" tubing swivel.

6. RU wireline & RIH w/ Cement retainer & set @ 5742''. ROH w/ wireline.

7. TIH w/ tubing & retainer stinger to 5742'. Sting into retainer & prep to pump cement.

8. Mix & pump 50 sacks (10 bbl's) through cement retainer set @ 5742'. Sting out of retainer & pump 10 sacks (2 BBLS) cement on top of the retainer. This will cover the Cozzette & Corcoran perfs.

9. TOH w/ tubing. Lay down tubing. Stand back 4635' of tubing.

10. RU wireline. RIH w/ 2nd cement retainer to 4635' & set. ROH w/ wireline.

11. TIH w/ tubing & retainer stinger to 4635'.

12. Mix & pump 50 sacks (10 bbls.) of cement below cement retainer. This will cover the Mesa Verde perfs from 4685' to 4773'. Sting out of retainer & pump 10 sacks (2 BBLS) of cement on top of the retainer.

13. TOH w/ tubing laying down. Stand back 571' feet of tubing.

14. RU wireline. RIH w/ perf gun to 571' & shoot surface shoe squeeze holes. ROH w/ wireline. RD & release wireline.

15. TIH w/ tubing to 571'.

16. Try to establish circulation up the annular to surface. Do not pressure over 350 psi.

17. Mix & pump balanced plug of 10 sacks cement in 4 ½" casing & 25 sacks cement through squeeze perfs @ 571'.

18. TOH w/ tubing standing back. WOC overnight. TIH w/ tubing the following day & hard tag TOC. Minimum TOC is 471'. TOH w/ tubing to 90'.

19. Mix & pump cement from 90' to surface in the 4 ½" casing and the annular. Cement volume as needed to surface. Should be around 25 sacks cement total.

20. TOH w/ remaining tubing laying down.

21. ND-BOP & RD service unit.

22. Dig down around wellhead 4' below ground level. Cut off wellhead & casings. Top off with cement as needed to surface. Install information plate & weep hole & backfill.