



## **Cities Federal 7-31**

**SW/NE Section 31, T3S, R101W**

**Federal Lease # COC-2015**

**Rio Blanco County, Colorado**

**P&A Procedure**

**June 27, 2013**

Engineer: Thomas Joyce

Production Group Lead: Jerry Dietz

North Piceance Team Lead: Jacob Shumway

API Number:	05-103-07484	
Spud Date:	11/30/1972	
GL Elevation:	6,892 ft	
KB Elevation:	6,902 ft	
TD:	5,225 ft MD	
PBTD:	1,842 ft.	
Surface Casing:	13 3/8" OD, 48 lb/ft, K-55, set at 79 ft.	
Surface Casing Properties:	ID:	12.515"
	Drift ID:	12.359"
	Collapse:	1,540 psig
	Burst:	3,090 psig
	Joint Yield Strength:	633,000 lb
	Capacity:	0.1521 BBL/ft
Intermediate Casing:	8 5/8" OD, 24 lb/ft, J-55, set at 1,354 ft.	
Intermediate Casing Properties:	ID (32 lb/ft):	7.921"
	Drift ID (32 lb/ft):	7.796"
	Collapse (24 lb/ft):	1,370 psig
	Burst (24 lb/ft):	2,950 psig
	Joint Yield Strength (24 lb/ft):	244,000 lb
	Capacity (24 lb/ft):	0.0636 BBL/ft
	Capacity 8 5/8" casing x 13 3/8" casing:	0.0799 BBL/ft
Production Casing:	5 1/2" OD, 17 lb/ft, J-55, set at 1,838 ft.	
Production Casing Properties:	ID:	4.950"
	Drift ID:	4.825"
	Collapse:	4,040 psig
	Burst:	4,810 psig
	Joint Yield Strength:	217,000 lb
	Capacity:	0.0238 BBL/ft
	Capacity 5 1/2" casing x 8 5/8" casing:	0.0343 BBL/ft
	Tubing:	2 7/8" OD, J-55, set at 1,700'
Tubing properties:	ID:	2.441"
	Drift ID:	2.347"
	Coupling OD:	3.668"
	Collapse:	7,680 psig
	Burst:	7,260 psig
	Joint Yield Strength:	99,660 lb
	Capacity:	0.00579 BBL/ft
	Capacity 2 7/8" tubing x 5 1/2" 15.5 lb/ft casing:	0.0158 BBL/ft
Perfs:	1,540 to 1,699'	

**Objective**

Plug and abandon the Cities Federal 7-31.

**Background**

The Cities Federal 7-31 is a vertical well drilled in November 30 1972, and completed in the Mancos. The well has been flow tested and swabbed. This well is no longer economical to operate.

**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 Core.

**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 Meeker BLM and COGCC office 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.
4. ND wellhead, NU BOP.
5. Load hole.
6. TOH with tubing. Lay down any bad joints.
7. RU wireline and set CIBP at 1,490 ft.
8. RIH with dump bailer and spot 5 sacks ( 1BBL) cement on CIBP at 1,490 ft.
9. ROH with wireline and pick up perf gun, RIH and shoot perms @ 1,404' 50 feet below the intermediate casing shoe @ 1,354. ROH w/ wireline.
10. TIH w/ tubing and pump a 20 sacks (4 BBLS) cement @ 1,404' ft. Estimated TOC @ 1,304, 50 feet above the intermediate casing shoe. Short TOH w/ tubing and WOC to tag. If cement is not @ least 50 feet above the intermediate casing shoe top off to ensure it is.
11. RU wireline and set CIBP at 129' ft. ROH w/ wireline and pick up perf gun and shoot perms in the 8.626 X 5.5 casing to expose the Surface casing shoe @ 79'. RD wireline.
12. TIH with tubing to 129' ft.
13. Establish circulation up casing annulus.
14. Pump 90 sacks (18 BBLS) cement to surface in the 13.375" X 8.625" X 5.5" annulus and production casing.
15. Dig down and cut off wellhead 4 feet below ground level. Weld information plate to casing stub, take GPS readings of well information plate for regulatory agencies and back fill hole. Top off cement to surface w/ 1" if needed.
16. RDMO workover rig.



