



## **Orchard Unit 17-11**

**SE/SW - Section 17 - T8S - R96W**

**Federal Lease: COC 58675**

**API: 05-077-09285**

**Lat / Long: 39.34433 / -108.13478**

**Mesa County, Colorado**

**P&A Procedure**

**September 22, 2016**

Engineer:	Casey Morse
Completions Coordinator:	Ryan Tompkins
Production Manager:	James Jmieff

API Number:	05-077-09285-0000	
Spud Date:	June 29, 2007	
GL Elevation:	5750'	
TD:	5107' MD    PBTD: 5063' MD	
Conductor:	16" OD, 42 lb/ft, set at 40 ft.	
Surface Casing:	8 5/8" OD, 24 lb/ft, J-55, set at 1267 ft.	
Surface Casing Properties:	ID:	8.097"
	Drift ID:	7.972"
	Collapse:	1,370 psig
	Burst:	2,950 psig
	Joint Yield Strength:	244,000 lb
	Capacity:	0.0637 BBL/ft
	Capacity 8 5/8" casing x 12 1/4" hole:	0.0735 BBL/ft
	Top of Cement:	56'
Production Casing:	5 1/2" OD, 17 lb/ft, I-80, set at 5107 ft.	
Production Casing Properties:	ID:	4.892"
	Drift ID:	4.767"
	Collapse:	6,820 psig
	Burst:	7,740 psig
	Joint Yield Strength:	397,000 lb
	Capacity:	0.0232 BBL/ft
		43.0147 ft/ BBL.
	Capacity 7 7/8" x 5 1/2" casing:	0.0309 BBL/ft
		32.4065 ft/ BBL
	Top of Cement:	3,480'
Tubing:	2 3/8" OD, 4.7 lb/ft, J-55, set at 4248 ft.	
Perfs:	3,780' to 4,799' Williams Fork and Iles Formation	

**Objective**

Plug and abandon the Orchard Unit 17-11.

**Background**

The Orchard Unit 17-11 vertical well was drilled in June of 2007. The well last produced in 2013 and has since lost casing and tubing pressure, making it uneconomic to produce.

**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 Wellview. 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 Silt BLM office & COGCC at least 48 hours before plugging operations commence. Ensure proper ground disturbance forms have been completed, one call for utility identification has been done and proper paper work is on location.
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 workover unit. Kill well.
4. ND wellhead, NU BOP.
5. TOH with 2 3/8" tubing (set @ 4,248'.)
6. RIH with 5 1/2" cast iron bridge plug to 3,730', 50' above top perf @ 3,780'. Set CIBP & ROH w/ wireline.
7. Pressure test casing to 500 psi.
8. Dump bail 12 sacks (2 bbls.) of Class G neat cement (15.8 lb/gal, 1.15 cu-ft/sx) on top of CIBP @ 3,730'. Estimated TOC @ 3,630' (100' cement cap).
9. RU wireline. RIH w/ perf gun to 2500' (approx. 80' below top of Williams Fork) & perforate with 4 holes. ROH w/ wireline. RD wireline.
10. TIH with tubing to 2600'. Mix and pump balance plug of 70 sxs (10% excess) Class G neat cement. Estimated TOC @ 2300'.
11. RU wireline. RIH and set 5 1/2" CIBP @ 1,367' (100' below surface shoe.) ROH w/ wireline.
12. RIH w/ perf gun to 1,317' (50' below surface shoe) & perforate casing with 4 holes. ROH w/ wireline. RD & release wireline.
13. TIH w/ tubing to perfs @ 1,317'. Mix and pump 52 sxs of cement @ perfs located at 1,317' (150' cement cap) and plan to perform top cement job with 1" to surface.
14. POOH w/ tubing and spot 75' of Class G neat cement to surface inside 5 1/2" (10 sxs.) and inside 5 1/2" x 8 5/8" annulus (18 sxs.)
15. RDMO workover unit and ND BOP.
16. Dig down around wellhead and cut off 4 feet below ground level. Top off with cement if needed.
17. Weld information plate to casing stub with 1/4" weep hole, take GPS readings of well information plate for regulatory agencies.
18. Back fill hole and release equipment.
19. RD MO.

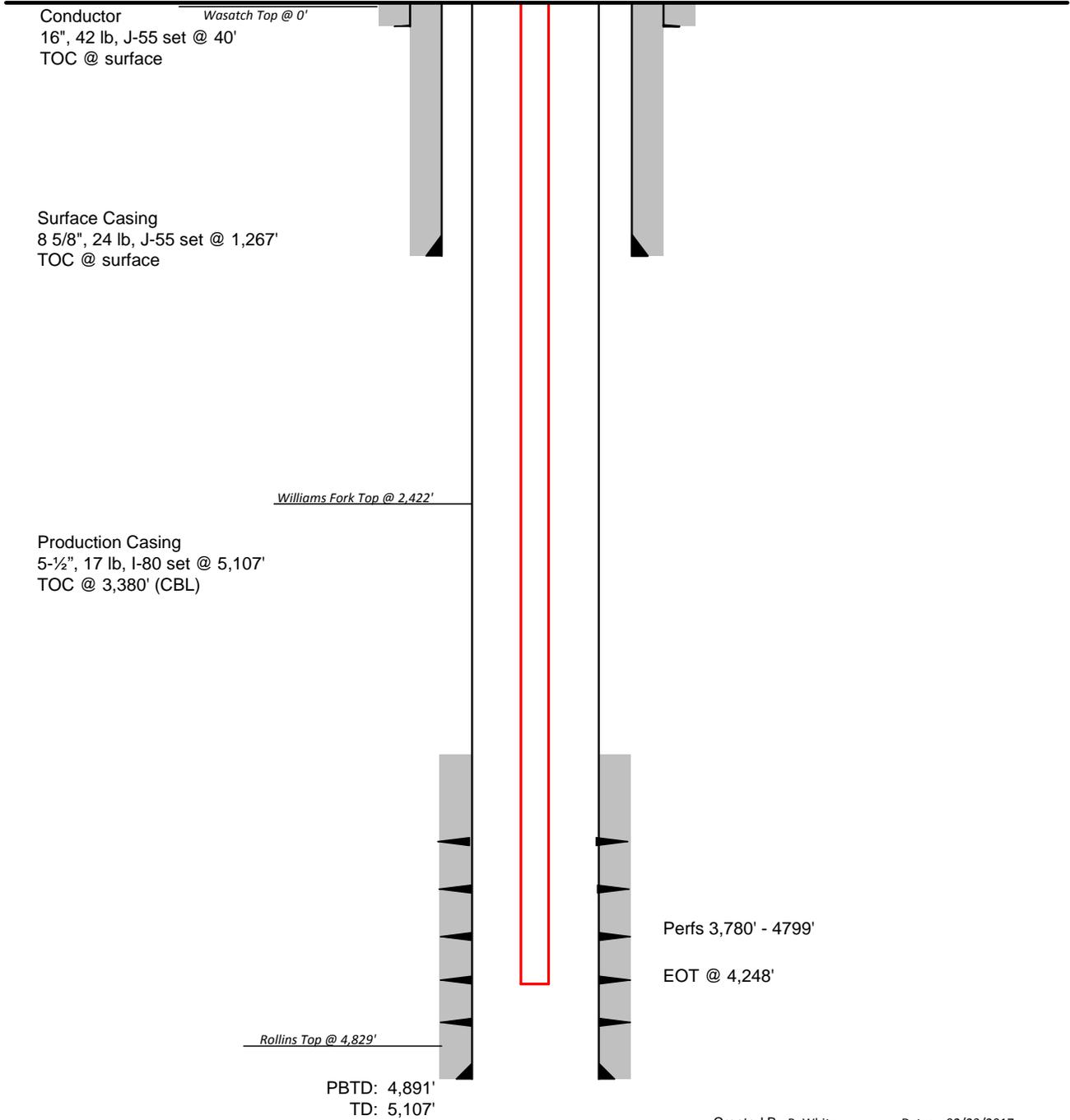
**Well Name:** Orchard Unit 17-11

**API #:** 05-077-09285-0000

**Location:** SESW - Section 17 - T8S - R96W

**County/St:** Mesa, Colorado

**Current Wellbore**



Created By: B. White

Date: 02/23/2017

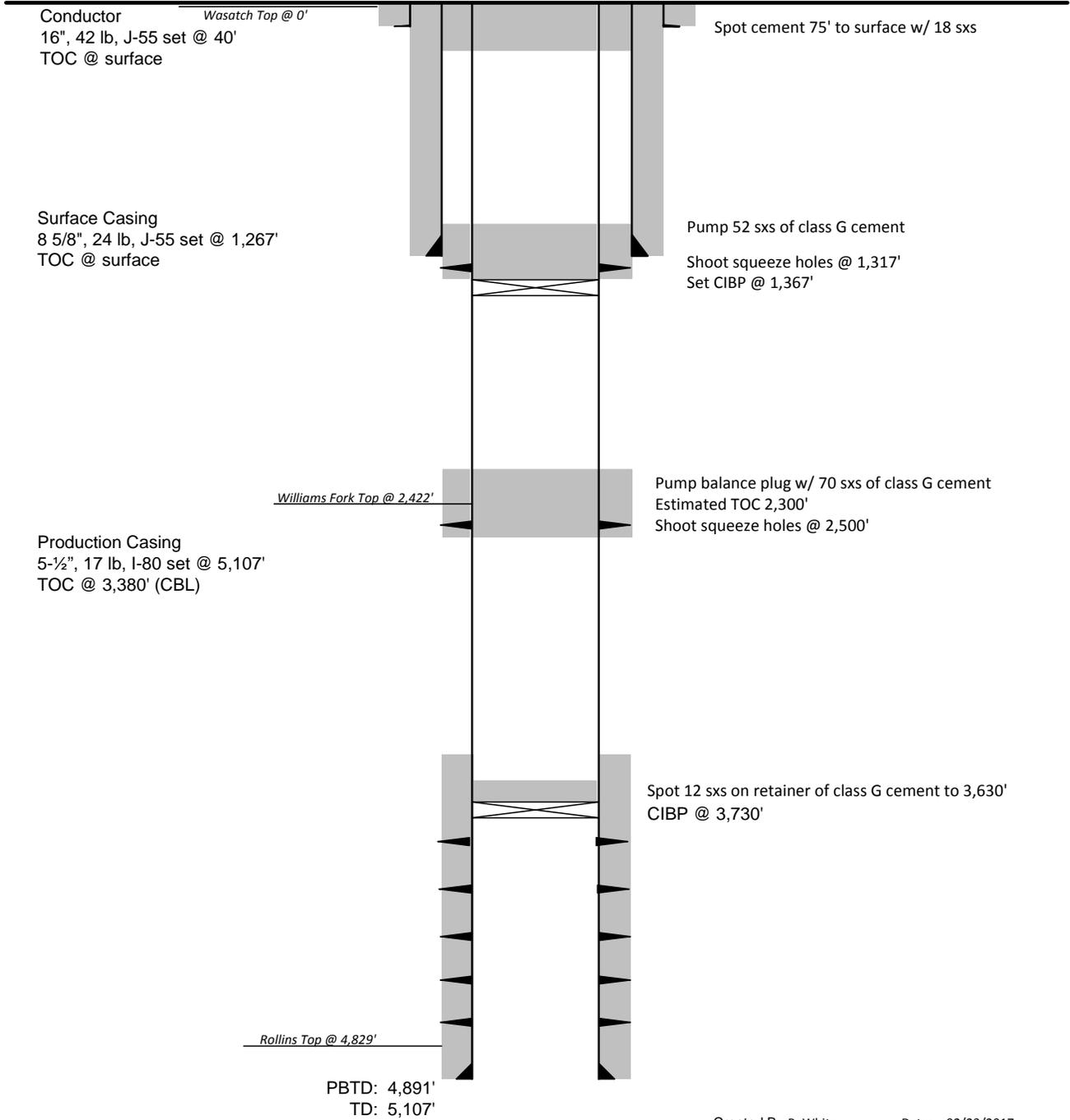
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**Proposed Wellbore**



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