



## **Thunder Federal 9-14**

**SE/SW - Section 9 - T4S - R102W**

**Federal Lease : COC-9496**

**API # 05-103-08816**

**Rio Blanco County, Colorado**

### **P&A Procedure**

**July 10, 2012**

Engineer: Tully Gallagher / Mills Bale

Production Group Lead: Jerry Dietz

North Piceance Team Lead: Jeff Balmer

### **Plug & Abandon Procedure**

1. Notify the Meeker BLM office and 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.
4. ND wellhead, NU BOP.
5. POOH with tubing. TIH w/ bit to 5,600' and TOO H.
6. RIH with CIBP and set at 5,559 ft.
7. Load hole and test csg to 500 psi.
8. RIH with tubing and spot 1 BBL (5 sx) cement on CIBP at 5,559 ft.
9. PU tubing 200 ft and reverse circulate clean.
10. POOH with tubing.
11. Freepoint and cut off 4 ½" production casing at +/- 2,473'. POOH w/ csg.
12. Attempt to sting into 4 ½" casing stub and spot 80 sx cement.
13. Pull out of hole with tubing and WOC. Run in and tag cement top to verify it is 50' above shoe.
14. TIH to 260' feet and circulate 55 sx cement to surface.
15. Cut off casing 4 ft below ground level and weld on plate.
16. RDMO

**Well Name:** Federal 9-14

**API #:** 05103088160000

**Location:** Sec. 9-4S-102W

**KB:** 6,873' (10' AGL)

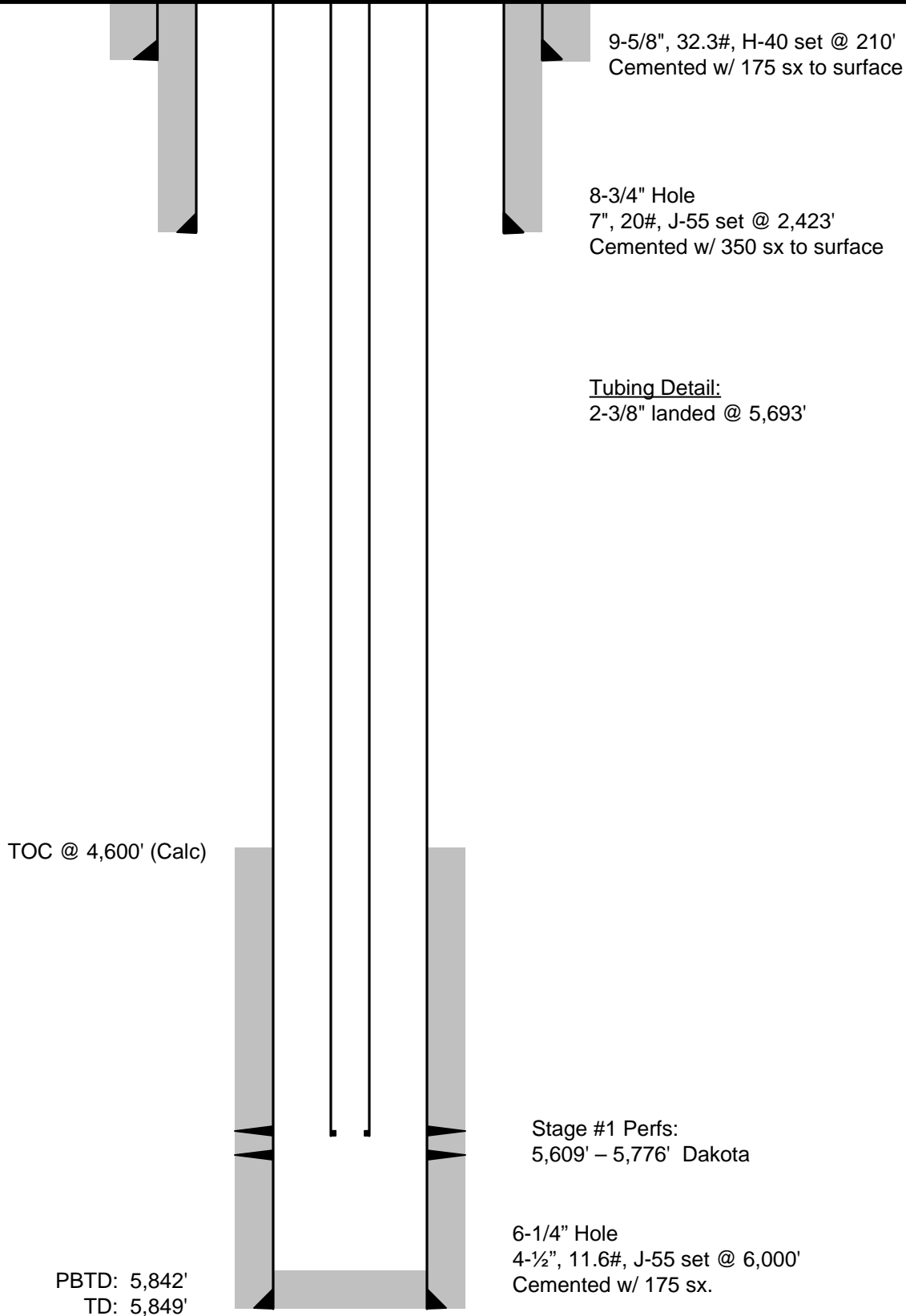
**GL:** 6,863'

**County/St:** Rio Blanco, CO

**Created By:** M. Bale

**Date:** 3/30/2012

**Current Wellbore**



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**API #:** 05103088160000

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**County/St:** Rio Blanco, CO

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**Date:** 7/10/2012

### Proposed Wellbore

55 sx cement plug 260' to surface

9-5/8", 32.3#, H-40 set @ 210'  
Cemented w/ 175 sx to surface

4-1/2" csg stub at 2,473'.  
Cemented w/ 80 sx.

8-3/4" Hole  
7", 20#, J-55 set @ 2,423'  
Cemented w/ 350 sx to surface

TOC @ 4,600' (Calc)

Set CIBP @ 5,559'  
Bail 5 sx cement on top

Stage #1 Perfs:  
5,609' – 5,776' Dakota

PBTD: 5,955'  
TD: 6,000'

6-1/4" Hole  
4-1/2", 11.6#, J-55 set @ 6,000'  
Cemented w/ 175 sx.

