



1001 17<sup>th</sup> Street  
Suite 1600  
Denver, CO 80202  
4/9/2020

## **Couey 23-8 (H23W)**

### **Appendix A**

API: 05-045-14657

Surface Casing: 9 5/8" OD, 8.92" ID, 36 lb/ft, J-55, set at 964'.

Production Casing:  
Hole Size: 4 1/2" OD, 4" ID, 11.6 lb/ft, J-55, set at 8,183'  
7 7/8"

TOC: 4,140'

Perfs: 6,072'-7,892'

Top of Mesa Verde: 5,164'

COGCC Field: Mamm Creek

Type of P&A:

- 1) Mechanical Plug with Cement
- 2) Casing Plug for TOMV coverage
- 3) Stabilization Plug if 3,000' between plugs
- 4) Surface Shoe Balance Plug
- 5) Cement Top Off



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### **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 paperwork 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. Record all tubing and casing pressures as found, note in WellView.
4. Perform Bradenhead Test using a Form 17. With gauges monitoring production and tubing pressures, open surface casing (bradenhead) valve. Record pressures at five minute intervals for 30 minutes. Record all pressures and complete Form 17. Return completed Form 17 to Production Engineer.
5. MIRU workover unit. Kill well.
6. ND wellhead, NU BOP.
7. TOOH w/ tubing while scanning. Lay down any joints with visible holes or greater than 35% wall loss (Red Band).
8. RIH w/ 4 1/2" CIBP to 6,022'.
9. RIH w/ tubing and pump 12 sacks of Class G neat cement (15.8 lb/gal., 1.15 cu-ft/sk.) on top of CIBP @ 6,022'. Estimated TOC @ 5,872' (100' cement cap w/ 50' excess). TOOH w/ tubing to ~5,164'.
10. Pressure test casing to 350 psi.
11. At 5,164' pump 42 sacks of Class G neat cement from 4,614' – 5,164' (550' of cement for Top of Mesa Verde coverage). TOOH w/ tubing 4,290'.
12. At 4,290' pump 12 sacks of Class G neat cement from 4,140' – 4,290' (150' of cement coverage for 3,000' stabilization plug)
13. RIH with perf gun and shoot 4 squeeze holes at 1,140'. ROH and RDMO wireline.
14. TIH w/ tubing, bring on rig pumps, and establish circulation through squeeze holes up bradenhead annulus.
15. Pump 90 sacks of Class G neat cement (15.8 lb./gal, 1.15 cu-ft./sk.) cement into Perfs @ 1,140'. Puts 276' of cement above Perfs in Production Casing and Annulus @ 864'. TOOH w/ tubing.



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16. RIH with perf gun and shoot 4 squeeze holes at 75'. ROH and RDMO wireline.
17. Perform top job with cement between 8-5/8" and 4-1/2" casing with 1" to surface. Spot 50' (+25' Excess) 27 sacks of Class G neat cement (15.8lb./gal, 1.15 cu-ft./sk.) into annulus.
18. Dig down around wellhead and cut off 4 feet below ground level. Top off with cement if needed.
19. Weld information plate to casing stub with 1/4" weep hole, take GPS readings of well information plate for regulatory agencies. Inscribe information plate with:

Caerus Oil and Gas LLC  
Sec 23 T7S R93W Couey 23-8 (H23W) 05-045-14657  
Lease # COC55972E
20. Back fill hole and release equipment. RDMO



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