

State of Colorado  
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY

**BRADENHEAD TEST REPORT**

Step 1. Record all tubing and casing pressures as found.  
Step 2. Sample now, if intermediate or surface casing pressure >25 psi. In sensitive areas, 1 psi.  
Step 3. Conduct Bradenhead test.  
Step 4. Conduct intermediate casing test.  
Step 5. Send report to BLM within 30 days and to OGCC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach gas and liquid analyses if sampled.

1. OGCC Operator Number: 10084  
 2. Name of Operator: Pioneer Natural Resources  
 3. BLM Lease No:  
 4. API Number: 05-071-09333-0005. Multiple completion?  Yes  No  
 5. Well Name: Combledoed Deep Number: 32-20  
 6. Location (Qtr, Sec, Twp, Rng, Meridian): SWNE 20 T32S R67W  
 7. County: Las Animas 8. Field Name: Algaratoro River  
 9. Minerals:  Fee  State  Federal  Indian  
 10. Date of Test: 10/26/15  
 11. Well Status:  Flowing  Shut in  
 Gas Lift  Pumping  Injection  
 Clock/Intermitter  
 Plunger Lift  
 12. Number of Casing Strings:  Two  Three  Liner?  
 13. STEP 1: EXISTING PRESSURES  
 Record all pressures as found  
 Tubing: Fm: 0 Tubing: Fm: Prod. Casing: Fm: 10 Intermediate Csg: Surface Casing: Fm: 0  
 14. STEP 2: See instructions above.

15. STEP 3: BRADENHEAD TEST  
 Buried valve?  Yes  No Confirmed open?  Yes  No  
 With gauges monitoring production, intermediate casing and tubing pressures, open surface casing (bradenhead) valve (if no intermediate casing, monitor only the production casing and tubing pressures.) Record pressures at five minute intervals. Define characteristics of flow in "Bradenhead Flow" column using letter designations below:  
 O = No Flow; C = Continuous; D = Down to 0; V = Vapor  
 H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas  
 BRADENHEAD SAMPLE TAKEN?  
 Yes  No  Gas  Liquid  
 Character of Bradenhead fluid:  Clear  Fresh  
 Sulfur  Salty  Black  
 Other: (describe)  
 Sample cylinder number:  
 Elapsed Time (Min:Sec) Fm: Tubing: Fm: Tubing: Production Casing PSIG Intermediate Casing PSIG Bradenhead Flow:  
 00: 0 10 0  
 05:  
 10:  
 15:  
 20:  
 25:  
 30:  
 Note instantaneous Bradenhead PSIG at end of test: >

16. STEP 4: INTERMEDIATE CASING TEST  
 Buried valve?  Yes  No Confirmed open?  Yes  No  
 With gauges monitoring production casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals. Characterize flow in "Intermediate Flow" column using letter designations below:  
 O = No Flow; C = Continuous; D = Down to 0; V = Vapor  
 H = Water H2O; M = Mud; W = Whisper; S = Surge; G = Gas  
 INTERMEDIATE SAMPLE TAKEN?  
 Yes  No  Gas  Liquid  
 Character of intermediate fluid:  Clear  Fresh  
 Sulfur  Salty  Black  
 Other: (describe)  
 Sample cylinder number:  
 Elapsed Time (Min:Sec) Fm: Tubing: Fm: Tubing: Production Casing PSIG Intermediate Casing PSIG Intermediate Flow:  
 00:  
 05:  
 10:  
 15:  
 20:  
 25:  
 30:  
 Note instantaneous Intermediate Casing PSIG at end of test: >

17. Comments: Braden head blew down for 7 seconds

18. STEP 5: See instructions above.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.  
 Test Performed by: Paul Costa Title: Phone: 719-680-1780  
 Signed: [Signature] Title: Date: 10/26/15  
 WITNESSED BY: Title: Agency: