

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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**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 3 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: 10079 3. BLM Lease No: \_\_\_\_\_  
 2. Name of Operator: ANTERO RESOURCES PICEANCE CORPORATION  
 4. API Number; 05-045-12628-00 5. Multiple completion?  Yes  No  
 6. Well Name: SNYDER Number: C8  
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE,12,6S,93W,6  
 8. County GARFIELD 9. Field Name: MAMM CREEK  
 10. Minerals:  Fee  State  Federal  Indian

11. Date of Test: 07/27/2010  
 12. Well Status:  Flowing  
 Shut In  Gas Lift  
 Pumping  Injection  
 Clock/Intermitter  
 Plunger Lift

14. EXISTING PRESSURES					
Record all pressures as found	Tubing: <u>230</u> Fm: _____	Tubing: _____ Fm: _____	Prod Csg <u>939</u> Fm: _____	Intermediate Csg: _____	Surf. Csg <u>121</u>

13. Number of Casing Strings:  
 Two  Three  Liner?

**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

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
00:00	230		939		D
05:00	230		939		O
10:00	230		939		O
15:00	230		939		O
20:00	230		939		O
25:00	230		939		O
30:00	230		939		O

BRADENHEAD SAMPLE TAKEN?  
 Yes  No  Gas  Liquid  
 Character of Bradenhead fluid:  Clear  Fresh  
 Sulfur  Salty  Black  
 Other:(describe) \_\_\_\_\_  
 Sample cylinder number: \_\_\_\_\_

Instantaneous Bradenhead PSIG at end of test: > 0

**INTERMEDIATE CASING TEST**

Buried valve?  Yes  No  
 Confirmed open?  Yes  No  
 With gauges monitoring production, intermediate 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

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:

INTERMEDIATE SAMPLE TAKEN?  
 Yes  No  Gas  Liquid  
 Character of Intermediate fluid:  Clear  Fresh  
 Sulfur  Salty  Black  
 Other:(describe) \_\_\_\_\_  
 Sample cylinder number: \_\_\_\_\_

Instantaneous Intermediate Casing PSIG at end of test: >

Comments: BRADENHEAD FLOW DOWN TO ZERO PRESSURE AT 30 SECONDS

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed By: TERRY DICK Title: OPERATOR Phone: (970) 230-0704

Signed: DAVID ANDREWS Title: PE II Date: 7/27/2010

Witnessed By: SHAUN KELLERBY Title: NWFIU Agency: COGCC