

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: N/A
 4. API Number: 05-071-02476 5. Multiple completion? Yes No
 6. Well Name: CAYENNE Number: 23-23
 7. Location (Ctr/Dir, Sec, Twp, Rng, Meridian): NE/SW Sec 23 - 32S-60W
 8. County: Las Animas 9. Field Name: Purgatoire River
 10. Minerals: Fee State Federal Indian

11. Date of Test: 11-19-11
 12. Well Status: Flowing Shut In
 Gas Lift Pumping Injection
 Clock/Interrmitter
 Plunger Lift
 13. Number of Casing Strings:
 Two Three Liner?

14. **STEP 1: EXISTING PRESSURES**

Record all pressures as found	Tubing:	Tubing:	Prod. Casing:	Intermediate Csg:	Surface Casing:
	Fm: <u>90</u>	Fm:	Fm: <u>13</u>		<u>0</u>

15. **STEP 2: See instructions above.**

16. **STEP 3: BRADENHEAD TEST**

Elapsed Time (Min Sec)	Fm: _____		Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
	Tubing:	Tubing:			
00:	<u>90</u>		<u>13</u>		<u>0</u>
05:					
10:					
15:					
20:					
25:					
30:					

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: _____

Note instantaneous Bradenhead PSIG at end of test: >

17. **STEP 4: INTERMEDIATE CASING TEST**

Elapsed Time (Min Sec)	Fm: _____		Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
	Tubing:	Tubing:			
00:					2321
05:					2305
10:					2300
15:					
20:					
25:					
30:					

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: _____

Note instantaneous Intermediate Casing PSIG at end of test: >

18. Comments: _____

19. **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: Robert Shull Title: lease operator Phone: 719-846-7898
 Signed: Robert M. Shull Title: _____ Date: 11-19-11
 WITNESSED BY: _____ Title: _____ Agency: _____