

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: <u>10084</u>	3. SLM Lease No: <u>NW</u>	11. Date of Test: <u>11/27/11</u>
2. Name of Operator: <u>Pioneer Natural Resource</u>	5. Multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12. Well Status: <input type="checkbox"/> Flowing <input type="checkbox"/> Shut In
4. API Number: <u>05-071-6221</u>	6. Well Name: <u>Vulc 2</u> Number: <u>31-13</u>	<input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Injection
7. Location (Ctr/Otr Sec, Twp, Rng, Meridian): <u>NW/NE Sec 15-35S-66W</u>	8. County: <u>Las Animas</u>	<input type="checkbox"/> Cyclic/Intermittent
10. Minerals: <input type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian	9. Field Name: <u>Purgatoire River</u>	<input type="checkbox"/> Plunger Lift
14. STEP 1: EXISTING PRESSURES		13. Number of Casing Strings: <input type="checkbox"/> Two <input type="checkbox"/> Three <input type="checkbox"/> Liner?
Record all pressures as found	Tubing: <u>0</u> Frac: <u>0</u>	15. STEP 2: See instructions above.
Tubing: <u>0</u> Frac: <u>0</u>	Prod. Casing: <u>1</u> Frac: <u>1</u>	
Intermediate Casing: <u>0</u>	Surface Casing: <u>0</u>	

16. STEP 3: BRADENHEAD TEST						
Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 = Whimper; S = Surge; G = Gas BRADENHEAD SAMPLE TAKEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid Character of Bradenhead fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black <input type="checkbox"/> Other: (describe) Sample cylinder number:	Elapsed Time (Min Sec)	Frac: <u>0</u>	Frac: <u>0</u>	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
	00:					<u>0</u>
	05:			<u>1</u>		
	10:					
	15:					
	20:					
	25:					
	30:					
Note instantaneous Bradenhead PSIG at end of test: >						

17. STEP 4: INTERMEDIATE CASING TEST						
Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 = Whimper; S = Surge; G = Gas INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid Character of Intermediate fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black <input type="checkbox"/> Other: (describe) Sample cylinder number:	Elapsed Time (Min Sec)	Frac: <u>0</u>	Frac: <u>0</u>	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
	00:					
	05:					
	10:					
	15:					
	20:					
	25:					
	30:					
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: John Gandy Title: Lead Oup Phone: 946-7898

Signed: [Signature] Title: \_\_\_\_\_ Date: 11/27/11

WITNESSED BY: \_\_\_\_\_ Title: \_\_\_\_\_ Agency: \_\_\_\_\_