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Oil and Gas

# State of Colorado Oil and Gas Conservation Commission

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## BRADENHEAD TEST REPORT

Step 1: Record all tubing and casing pressures as found.  
Step 2: Sample flow, 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 OGC within 30 days and to OGC within 10 days. Include wellbore diagram if not previously submitted or if wellbore configuration has changed since prior program. Attach pass and liquid progress if sampled.

1. OGC Operator Number: Williford 5. BLM Lease No.:  
2. Name of Operator: Williford 6. Well completion? ☐ Yes ☒ No  
3. API Number: Russel Harris #1 Number:  
4. Well Name: Russel Harris #1 7. Location (Qtr, Sec, Twp, Rng, Meridian): NE NE 12 33 12  
8. County: La Plata 9. Field Name:  
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/14/21

12. Well Status: ☐ Flowing ☐ Shut-in  
☐ Gas Lift ☒ Pumping ☐ Injection  
☐ Cyclic Steam Flooding ☐ Plugger Lift

13. Number of Casing Strings: ☒ Two ☐ Three ☐ Four

14. STEP 1: EXISTING PRESSURES  
Record all pressures as found  
Tubing: 5 Prof. Casing: 2.2 Intermediate Casing: N/A Surface Casing: 2.1

15. STEP 2: See instructions above.

16. STEP 3: BRADENHEAD TEST

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:  
D = 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)	Flow	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00:	5	2.2		D-W
05:	5	2.2		W
10:	5	2.2		W
15:	5	2.2		W
20:	5	2.2		W
25:	5	2.2		W
30:	5	2.2		W

BRADENHEAD SAMPLE TAKEN? ☐ Yes ☒ No ☐ Gas ☐ Liquid  
Character of Bradenhead fluid: ☐ Clear ☐ Fresh ☐ Sour ☐ Salty ☐ Black  
☐ Other (describe):  
Sample cylinder number:  
Note instantaneous Bradenhead PSIG at end of test: 757M

17. STEP 4: INTERMEDIATE CASING TEST

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:  
D = 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)	Flow	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
00:				
05:				
10:				
15:				
20:				
25:				
30:				

INTERMEDIATE SAMPLE TAKEN? ☐ Yes ☐ No ☐ Gas ☐ Liquid  
Character of Intermediate fluid: ☐ Clear ☐ Fresh ☐ Sour ☐ Salty ☐ Black  
☐ Other (describe):  
Sample cylinder number:  
Note instantaneous Intermediate Casing PSIG at end of test: N/A

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: M. Tech Kennedy Title: Tech Phone: 970 238 1206  
Signed: [Signature] Title:  Date: 10/14/21  
Agency: