

2004  
17  
Rev. 08/04

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2109 Fax: (303) 894-2109

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. Intermediate casing, 1 psi.  
Step 3. Conduct intermediate casing test.  
Step 4. Conduct intermediate casing test.  
Step 5. Send report to BLM within 30 days and to OGC within 10 days. Include all data and diagrams if not previously submitted or if wellbore configuration has changed since prior report. Analyze gas and liquid analyses if sampled.

1. OGC Operator Number: Williford  
2. Name of Operator: Williford  
3. BLM Lease No.:  
4. APT Number: Spring Hollow Mac 1  
5. Multiple completion? ☐ Yes ☒ No  
6. Well Name: Spring Hollow Mac 1  
7. Location (County, Sec., Twp., Rng., Meridian): SW SW 76 33 11  
8. County: Laplace  
9. Field Name:  
10. Jurisdiction: ☐ Fed ☐ State ☐ Federal ☐ Indian

11. Date of Test: 10/14/21  
12. Well Status: ☐ Flowing ☐ Shut in  
☐ Gas Lift ☒ Pumping ☐ Injection  
☐ Cyclic/Intermittent  
☐ Plugger LR  
13. Number of Casing Stages: ☒ Two ☐ Three ☐ Linear

14. STEP 1: EXISTING PRESSURES  
Record all pressures as found:  
Tubing: From: 1.5 To: 5.6  
Intermediate Casing: N/A  
Surface Casing: 5.7

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 H<sub>2</sub>O; M = Mud; W = Whimper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN:  
☐ Yes ☒ No ☐ Gas ☐ Liquid  
Character of Bradenhead fluid: ☐ Clear ☐ Fresh  
☐ Sulfur ☐ Slaty ☐ Black  
☐ Other (describe):  
Sample cylinder number:

Elapsed Time (Min:Sec)	From Tubing	From Casing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
01	2 sec	1.5	5.7		D-W
05		1.5	5.7		W
10		1.5	5.7		Φ
15	END TEST				
20					
25					
30					

Note instantaneous Bradenhead PSIG at end of test: Φ

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 H<sub>2</sub>O; M = Mud; W = Whimper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN:  
☐ Yes ☒ No ☐ Gas ☐ Liquid  
Character of intermediate fluid: ☐ Clear ☐ Fresh  
☐ Sulfur ☐ Slaty ☐ Black  
☐ Other (describe):  
Sample cylinder number:

Elapsed Time (Min:Sec)	From Tubing	From Casing	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow
01					
05					
10					
15					
20					
25					
30					

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