

State of Colorado  
Oil and Gas Conservation Commission

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FOR BGLC 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: 10305		3. BLM Lease No:		11. Date of Test: 05/20/2019	
2. Name of Operator: Goodwin Energy Management		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: 05-001-9009		6. Well Name: Moore		<input type="checkbox"/> Gas Lift <input type="checkbox"/> Pumping <input type="checkbox"/> Injection	
7. Location (On/Off, Sec. Twp. Rng. Meridian): NENW, 9, T2S, R64W		8. County: Adams		<input type="checkbox"/> Check/Intermittent	
9. Field Name: Wadsworth		10. Minerals: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian		<input checked="" type="checkbox"/> Plunger Lift	
13. Number of Casing Strings:		14. STEP 1: EXISTING PRESSURES		15. STEP 2: See instructions above.	
Record all pressures as found	Tubing: 190 Fm:	Tubing: Fm:	Prod. Casing: 230 Fm:	Intermediate Csg: N/A	Surface Casing: 0

16. STEP 3: BRADENHEAD TEST					
Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input checked="" type="checkbox"/> Yes <input 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: D = No Flow; C = Continuous; D = Down to 0; V = Vapor H = Water H <sub>2</sub> O; M = Mud; W = Whisper; 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)	Fm. Tubing	Fm. Tubing	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow
00	190		230		0
05	190		230		0
10	190		230		0
15	190		230		0
20	190		230		0
25	190		230		0
30	190		230		0
Note instantaneous Bradenhead PSIG at end of test:					> 0

17. STEP 4: INTERMEDIATE CASING TEST					
Buried valve? <input type="checkbox"/> Yes <input type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input 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: D = No Flow; C = Continuous; D = Down to 0; V = Vapor H = Water H <sub>2</sub> O; M = Mud; W = Whisper; S = Surge; G = Gas					
INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input 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)	Fm. Tubing	Fm. Tubing	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: Scott Goodwin Title: CEO Phone: 303-881-2482

Signed: Title: Date: 03/06/2019

WITNESSED BY: Title: Agency: