

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



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: 17180		3. BLM Lease No:		11. Date of Test: 02/05/2020	
2. Name of Operator: Citation Oil & Gas Corp.		5. Multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12. Well Status: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Shut In	
4. API Number: 05-017-06784		Number: 146 (23-22)		<input type="checkbox"/> Gas Lift <input type="checkbox"/> Pumping <input type="checkbox"/> Injection	
6. Well Name: Arapahoe Unit		7. Location (Qtr/Sec, Twp, Rng, Meridian): NESW Sec 22 Twp:14S Rng: 42W 6th PM		<input type="checkbox"/> Clock/Intermittent	
8. County: Cheyenne		9. Field Name: Arapahoe Unit		<input type="checkbox"/> Plunger Lift	
10. Minerals: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian		13. Number of Casing Strings:		<input checked="" type="checkbox"/> Two <input type="checkbox"/> Three <input type="checkbox"/> Liner?	
14. STEP 1: EXISTING PRESSURES					
Record all pressures as found	Tubing: 420 Fm: Morrow	Tubing: Fm:	Prod. Casing: 0 Fm: Packer	Intermediate Cag: NA	Surface Casing: 0
15. STEP 2: See instructions above.					

16. STEP 3: BRADENHEAD TEST						
Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input 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: O = 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)	Fm: MRRW Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Bradenhead Flow:
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)	00:	420		0		W
	05:	420		0		0
	10:	420		0		0
	15:	420		0		0
	20:	420		0		0
	25:	420		0		0
Sample cylinder number:	30:	420		0		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: O = 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)	Fm: Tubing:	Fm: Tubing:	Production Casing PSIG	Intermediate Casing PSIG	Intermediate Flow:
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)	00:					
	05:					
	10:					
	15:					
	20:					
	25:					
Sample cylinder number:	30:					
Note instantaneous Intermediate Casing PSIG at end of test: >						

18. Comments: Bradenhead had slight blow when opened, died off immediately

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: Herschel Kennedy Title: Sr. Production Foreman Phone: (719) 340-1150

Signed: *Herschel Kennedy* Title: *Sr. Production Foreman* Date: *2/5/2020*

WITNESSED BY: Title: Agency: