

FORM
17
Rev
6/99

State of Colorado

Energy & Carbon Management Commission

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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 3 days and to ECMC 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. ECMC Operator Number: 10456 3. BLM Lease No: COC23443
 2. Name of Operator: CAERUS PICEANCE LLC
 4. API Number; 05-045-14162-00 5. Multiple completion? Yes No
 6. Well Name: FEDERAL Number: 7-12C
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): Lot 7,7,8S,95W,6
 8. County GARFIELD 9. Field Name: PARACHUTE
 10. Minerals: Fee State Federal Indian

11. Date of Test: 10/30/2017
 12. Well Status: Flowing
 Shut In Gas Lift
 Pumping Injection
 Clock/Intermitter
 Plunger Lift
 13. Number of Casing Strings:
 Two Three Liner?

14. EXISTING PRESSURES

Record all pressures as found	Tubing: <u>1</u> Fm: <u>WFCM</u>	Tubing: <u>1</u> Fm: <u>WFCM</u>	Prod Csg <u>2</u> Fm: <u>WFCM</u>	Intermediate Csg: _____	Surf. Csg <u>0</u>
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BRADENHEAD TEST

Buried valve? Yes No
 Confirmed open? Yes 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

BRADENHEAD SAMPLE TAKEN?
 Yes No Gas Liquid
 Character of Bradenhead fluid: Clear Fresh
 Sulfur Salty Black
 Other:(describe)
 Sample cylinder number: N/A

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
00:00	WFCM 1	<input type="checkbox"/>	<input type="checkbox"/> 2		NO FLOW
05:00	WFCM 1	<input type="checkbox"/>	<input type="checkbox"/> 2		NO FLOW
10:00	WFCM 1	<input type="checkbox"/>	<input type="checkbox"/> 2		NO FLOW
15:00	WFCM 1	<input type="checkbox"/>	<input type="checkbox"/> 2		NO FLOW
20:00	WFCM 1	<input type="checkbox"/>	<input type="checkbox"/> 2		NO FLOW
25:00	WFCM 1	<input type="checkbox"/>	<input type="checkbox"/> 2		NO FLOW
30:00	WFCM 1	<input type="checkbox"/>	<input type="checkbox"/> 2		NO FLOW

Instantaneous Bradenhead PSIG at end of test: > 0

INTERMEDIATE CASING TEST

Buried valve? Yes No
 Confirmed open? Yes No
 With gauges monitoring production, intermediate 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

INTERMEDIATE SAMPLE TAKEN?
 Yes No Gas Liquid
 Character of Intermediate fluid: Clear Fresh
 Sulfur Salty Black
 Other:(describe)
 Sample cylinder number: _____

Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Instantaneous Intermediate Casing PSIG at end of test: >

Comments: Test requested by Craig Burger, COGCC NW Engineer. Caerus Piceance LLC would like to obtain a wavier from running an MIT on this wellbore.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Test Performed By: Keith Rice Title: Caerus Lead Pumper Phone: (970) 644-3464

Signed: Cole Spurgeon Title: Production Engineer Date: 10/30/2017

Witnessed By: _____ Title: _____ Agency: _____