

State of Colorado  
Oil and Gas Conservation Commission

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



Document Number:

403168990

## BRADENHEAD TEST REPORT

Step 1. Before opening any valves, record all tubing and casing pressures as found.

Step 2. Collect liquid and gas samples as required; consult Bradenhead Testing and Reporting Instructions and Guidance for field specific Orders at

<http://cogcc/reg.html#opguidance>

Step 3. Conduct Bradenhead test.

Step 4. Submit Form 17 within 10 days of test. Attach a wellbore diagram if not previously submitted or if wellbore configuration has changed since last wellbore diagram was submitted.

Step 5. Submit sample analytical results via Form 43.

1. OGCC Operator Number: 10456 3. BLM Lease No: \_\_\_\_\_

2. Name of Operator: CAERUS PICEANCE LLC

4. API Number: 05-103-10690-00 5. Multiple completion? ☐ Yes ☐ No

6. Well Name: FREEDOM UNIT Number: 297-28A5

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW,28,2S,97W,6

8. County RIO BLANCO 9. Field Name: PICEANCE CREEK

10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 08/22/2022

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: _____ Fm: _____	Tubing: 147 Fm: _____	Prod Csg 146 Fm: _____	Intermediate Csg: 150	Surf. Csg 100
-------------------------------	----------------------------	--------------------------	---------------------------	--------------------------	------------------

## 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.

Describe character of flow in "Bradenhead Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Bradenhead Fluid" column: H = Water H<sub>2</sub>O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = None

Buried valve? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermedia Csg PSIG	Bradenhead Flow:	Bradenhead Fluid:
Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	00:00		147	146	150	CONTINUOUS	GAS
BRADENHEAD SAMPLE TAKEN?	05:00		141	142	150	CONTINUOUS	GAS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	10:00		140	141	150	CONTINUOUS	GAS
Character of Bradenhead fluid:	15:00		128	129	150	CONTINUOUS	GAS
<input type="checkbox"/> Clear <input type="checkbox"/> Fresh	20:00		124	126	150	CONTINUOUS	GAS
<input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black	25:00		119	118	150	CONTINUOUS	GAS
Other:(describe)	30:00		113	112	150	CONTINUOUS	GAS
REQUIRED - Instantaneous Bradenhead Pressure at End of Test: 100 PSIG							

## INTERMEDIATE CASING TEST

With gauges monitoring production, intermediate casing and tubing pressures, open the intermediate casing valve. Record pressures at five minute intervals.

Describe character of flow in "Intermediate Flow" column: O = No Flow; C = Continuous; D = Down to 0; S = Surge; W = Whisper

Describe fluid type in "Intermediate Fluid" column: H = Water H<sub>2</sub>O; M = Mud; G = Gas; V = Vapor; L = Liquid Hydrocarbon; H & M = Water & Mud; H & G = Water & Gas; H & V = Water & Vapor; M & G = Mud & Gas; M & V = Mud & Vapor; G & V = Gas & Vapor; H & L = Water & Liquid Hydrocarbon; M & L = Mud & Liquid Hydrocarbon; G & L = Gas & Liquid Hydrocarbon; V & L = Vapor & Liquid Hydrocarbon; N = None.

Buried valve? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Elapsed Time (Min:Sec)	Fm: Tubing	Fm: Tubing:	Prod Csg PSIG	Intermediate Csg PSIG	Intermediate Flow:	Intermediate Fluid:
Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	00:00		113	112	150	CONTINUOUS	GAS
<b>INTERMEDIATE SAMPLE TAKEN?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid	05:00		110	110	100	CONTINUOUS	GAS
	10:00		109	110	100	CONTINUOUS	GAS
	15:00		100	99	100	CONTINUOUS	GAS
	20:00		98	97	100	CONTINUOUS	GAS
Character of Intermediate fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black Other:(describe) _____	25:00		89	88	100	CONTINUOUS	GAS
	30:00		86	85	100	CONTINUOUS	GAS
	REQUIRED - Instantaneous Intermediate Casing Pressure at End of Test: 100 PSIG						

Comments:

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

Test Performed By: <u>Jeremy Wilson</u>	Title: <u>Valve Tech</u>	Phone: <u>(970) 712-8484</u>
Signed: <u>Lisa Click</u>	Title: <u>Regulatory Tech</u>	Date: <u>9/16/2022</u>
Witnessed By: _____	Title: _____	Agency: _____