

State of Colorado
Energy & Carbon Management Commission



Document Number:
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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://ecmc/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. ECMC Operator Number: 69175 3. BLM Lease No: _____
 2. Name of Operator: PDC ENERGY INC
 4. API Number; 05-123-51796-00 5. Multiple completion? Yes No
 6. Well Name: Hen Number: 07N
 7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE,8,4N,64W,6
 8. County WELD 9. Field Name: WATTENBERG
 10. Minerals: Fee State Federal Indian

11. Date of Test: 07/29/2024
 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>1481</u> Fm: _____ | Tubing: _____ Fm: _____ | Prod Csg <u>2508</u> Fm: _____ | Intermediate Csg: _____ | Surf. Csg <u>78</u> |
|-------------------------------|----------------------------------|----------------------------|-----------------------------------|----------------------------|------------------------|

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 H2O; 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 Confirmed open? <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: |
|---|------------------------|------------|-------------|---------------|---------------------|------------------|-------------------|
| | | | | | | | |
| | 00:00 | 1472 | | 2505 | | DOWN TO 0 | WATER AND GAS |
| | 05:00 | 1481 | | 2508 | | CONTINUOUS | WATER H2O |
| | 10:00 | 1477 | | 2505 | | CONTINUOUS | WATER H2O |
| Character of Bradenhead fluid: <input type="checkbox"/> Clear <input type="checkbox"/> Fresh <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black Other:(describe) _____ | 15:00 | 1500 | | 2512 | | CONTINUOUS | WATER H2O |
| | 20:00 | 1471 | | 2520 | | CONTINUOUS | WATER H2O |
| | 25:00 | 1488 | | 2526 | | CONTINUOUS | WATER H2O |
| | 30:00 | 1475 | | 2547 | | CONTINUOUS | WATER H2O |
| REQUIRED - Instantaneous Bradenhead Pressure at End of Test: <u>0</u> 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 H2O; 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 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 type="checkbox"/> Yes <input type="checkbox"/> No | 00:00 | | | | | | |
| INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid | 05:00 | | | | | | |
| | 10:00 | | | | | | |
| | 15:00 | | | | | | |
| | 20:00 | | | | | | |
| 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 | | | | | | |
| | 30:00 | | | | | | |
| | REQUIRED - Instantaneous Intermediate Casing Pressure at End of Test: _____ PSIG | | | | | | |

Comments: Post-Production within 60 days of first sales. 78 PSI water and gas flow blew down to 0 PSI in first few minutes of test. Water continued to trickle for entire test, ~1 gallon total fluid. PDC will schedule a sampling event and submit results via form 43. PDC will monitor pressure and re-test according to bradenhead policy.

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

Test Performed By: _____ Title: _____ Phone: () _____
 Signed: Jessica Johannsen Title: Regulatory Analyst Date: 8/5/2024
 Witnessed By: _____ Title: _____ Agency: _____