

FORM
17Rev
11/20State of Colorado
Oil and Gas Conservation Commission

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Document Number:

402529255

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: 69175 3. BLM Lease No: _____

2. Name of Operator: PDC ENERGY INC

4. API Number; 05-123-49446-00 5. Multiple completion? ☐ Yes ☐ No

6. Well Name: Red Cloud Number: 3N

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE,1,4N,64W,6

8. County WELD 9. Field Name: WATTENBERG

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

11. Date of Test: 11/06/202012. 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: _____ | Tubing: _____ | Prod Csg _____ 0 | Intermediate _____ | Surf. Csg _____ |
| | Fm: _____ | Fm: _____ | Fm: _____ | Csg: _____ | 80 |

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 type="checkbox"/> Yes <input checked="" 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 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 | | DOWN TO 0 | NONE |
| BRADENHEAD SAMPLE TAKEN? | 05:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 | | NO FLOW | NONE |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid | 10:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 | | NO FLOW | NONE |
| Character of Bradenhead fluid: | 15:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 | | NO FLOW | NONE |
| <input type="checkbox"/> Clear <input type="checkbox"/> Fresh | 20:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 | | NO FLOW | NONE |
| <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black | 25:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 | | NO FLOW | NONE |
| Other:(describe) | 30:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 | | NO FLOW | NONE |
| Instantaneous Bradenhead PSIG at end of test: > <u>0</u> | | | | | | | |

INTERMEDIATE CASING 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 "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 Confirmed open? <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: |
| | 00:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| INTERMEDIATE SAMPLE TAKEN? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid | 05:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | 10:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | 15:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| 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) _____ | 20:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | 25:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | 30:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | |
| | Instantaneous Intermediate Casing PSIG at end of test: > _____ | | | | | | |

Comments: Delayed Completions Test. 80 PSI blew down to 0 PSI within seconds. No pressure or flow observed for the remainder of the test.

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: <u>Jenifer Hakkarinen</u> | Title: <u>REg TEch</u> | Date: <u>11/10/2020</u> |
| Witnessed By: _____ | Title: _____ | Agency: _____ |