

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:

403135883

## 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: 100322 3. BLM Lease No: \_\_\_\_\_

2. Name of Operator: NOBLE ENERGY INC

4. API Number: 05-123-51329-00 5. Multiple completion? ☐ Yes ☐ No

6. Well Name: Roth Number: A31-720

7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE,30,6N,64W,6

8. County WELD 9. Field Name: WATTENBERG

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

11. Date of Test: 08/12/2022

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: 1612<br>Fm: _____ | Tubing: _____<br>Fm: _____ | Prod Csg 2896<br>Fm: _____ | Intermediate<br>Csg: _____ | Surf. Csg<br>55 |
|-------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|-----------------|

## 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 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                  | 1612       |             | 2896          |                     | CONTINUOUS       | GAS               |
| BRADENHEAD SAMPLE TAKEN?  | 05:00                  | 1611       |             | 2896          |                     | DOWN TO 0        | NONE              |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid | 10:00                  | 1612       |             | 2896          |                     | NO FLOW          | NONE              |
| Character of Bradenhead fluid:  | 15:00                  | 1611       |             | 2896          |                     | NO FLOW          | NONE              |
| <input type="checkbox"/> Clear <input type="checkbox"/> Fresh   | 20:00                  | 1614       |             | 2896          |                     | NO FLOW          | NONE              |
| <input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black   | 25:00                  | 1612       |             | 2896          |                     | NO FLOW          | NONE              |
| Other:(describe)  | 30:00                  | 1611       |             | 2896          |                     | NO FLOW          | NONE              |
| REQUIRED - Instantaneous Bradenhead Pressure at End of Test: 0 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 type="checkbox"/> Yes <input type="checkbox"/> No<br>Confirmed open? <input type="checkbox"/> Yes <input type="checkbox"/> No  | Elapsed Time<br>(Min:Sec)  | Fm:<br>Tubing | Fm:<br>Tubing: | Prod Csg<br>PSIG | Intermediate<br>Csg PSIG | Intermediate<br>Flow: | Intermediate<br>Fluid: |
|   | 00:00  |               |                |                  |                          |                       |                        |
| INTERMEDIATE SAMPLE TAKEN?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Gas <input type="checkbox"/> Liquid   | 05:00  |               |                |                  |                          |                       |                        |
|   | 10:00  |               |                |                  |                          |                       |                        |
|   | 15:00  |               |                |                  |                          |                       |                        |
| Character of Intermediate fluid:<br><input type="checkbox"/> Clear <input type="checkbox"/> Fresh<br><input type="checkbox"/> Sulfur <input type="checkbox"/> Salty <input type="checkbox"/> Black<br>Other:(describe)<br>_____ | 20:00  |               |                |                  |                          |                       |                        |
|   | 25:00  |               |                |                  |                          |                       |                        |
|   | 30:00  |               |                |                  |                          |                       |                        |
|   | REQUIRED - Instantaneous Intermediate Casing Pressure at End of Test: _____ PSIG |               |                |                  |                          |                       |                        |

Comments: GAS PRESENT AT BEGINING OF TEST. GAS WAS NOT CONTINUOUS. BLEWDOWN TO ZERO NO PSI NO FLOW AT END OF TEST. GAS SAMPLE COLLECTED

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

Test Performed By: Raul Sanchez Title: WELLHEAD FOREMAN Phone: (303) 8707730

Signed: RYAN SOKOLOWSKI Title: REGULATORY ANALYST Date: 8/15/2022

Witnessed By: \_\_\_\_\_ Title: \_\_\_\_\_ Agency: \_\_\_\_\_