

FORM  
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# State of Colorado Oil and Gas Conservation Commission

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



DE ET OE ES

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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 casing. Step 4. Conduct intermediate casing test. Step 5. Send report to BLM within 3 days and to OGCC 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. OGCC Operator Number: 100322 3. BLM Lease No: \_\_\_\_\_  
2. Name of Operator: NOBLE ENERGY INC  
4. API Number; 05-123-44839-00 5. Multiple completion? ☐ Yes ☒ No  
6. Well Name: Waste Management Number: Y23-784  
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW,11,2N,64W,6  
8. County WELD 9. Field Name: WATTENBERG  
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 02/18/2018

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: _____<br>Fm: _____ | Tubing: _____<br>Fm: _____ | Prod Csg _____ 0<br>Fm: _____ | Intermediate _____<br>Csg: _____ | Surf. Csg _____ 0 |
|-------------------------------|----------------------------|----------------------------|-------------------------------|----------------------------------|-------------------|

### BRADENHEAD TEST

Buried valve? ☐ Yes ☒ NoConfirmed 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 H<sub>2</sub>O; M = Mud; W = Whisper; S = Surge; G = Gas

BRADENHEAD SAMPLE TAKEN?

☐ Yes ☒ No ☐ Gas ☐ LiquidCharacter of Bradenhead 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: |
|------------------------|--------------------------|--------------------------|----------------------------|---------------------|------------------|
| 00:00                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 |                     | O                |
| 05:00                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 |                     | O                |
| 10:00                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 |                     | O                |
| 15:00                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 |                     | O                |
| 20:00                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 |                     | O                |
| 25:00                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 |                     | O                |
| 30:00                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 0 |                     | O                |

Instantaneous Bradenhead PSIG at end of test: &gt; 0

### INTERMEDIATE CASING TEST

Buried valve? ☐ Yes ☐ NoConfirmed 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 H<sub>2</sub>O; M = Mud; W = Whisper; S = Surge; G = Gas

INTERMEDIATE SAMPLE TAKEN?

☐ Yes ☐ No ☐ Gas ☐ LiquidCharacter 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"/> |                     |                  |
|                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                     |                  |

Instantaneous Intermediate Casing PSIG at end of test: &gt;

Comments: PRE FRAC 5.5" MONOBORE

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

Test Performed By: ADRIAN GOMEZ Title: SR. FRAC FOREMAN Phone: (870) 290-1749

Signed: MISTY LUCERO Title: ENGINEERING TECH Date: 2/28/2018

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