



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; 05-123-21605-00 5. Multiple completion? ☐ Yes ☐ No
6. Well Name: LDS Number: 20-8
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE,8,3N,64W,6
8. County WELD 9. Field Name: WATTENBERG
10. Minerals: ☐ Fee ☐ State ☐ Federal ☐ Indian

11. Date of Test: 03/22/2019
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: _____ Fm: _____ | Prod Csg <u>1102</u> Fm: _____ | Intermediate Csg: _____ | Surf. Csg <u>330</u> |
|-------------------------------|----------------------------|----------------------------|-----------------------------------|----------------------------|-------------------------|

BRADENHEAD TEST

| | | | | | | |
|---|--------------------------|--------------------------|-------------------------------|-------------------------------|---------------------|------------------|
| Buried valve? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Confirmed open? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 H2O; M = Mud; W = Whisper; S = Surge; G = Gas | 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"/> 1102 | | G |
| | 05:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 1102 | | G |
| | 10:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 1102 | | G |
| | 15:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 1102 | | G |
| | 20:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 1102 | | G |
| | 25:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 1102 | | G |
| 30:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> 1102 | | G | |
| Instantaneous Bradenhead PSIG at end of test: > <u>30</u> | | | | | | |

BRADENHEAD SAMPLE TAKEN?
☐ Yes ☒ No ☐ Gas ☐ Liquid
Character of Bradenhead fluid: ☐ Clear ☐ Fresh
☐ Sulfur ☐ Salty ☐ Black
Other:(describe) _____
Sample cylinder number: _____

INTERMEDIATE CASING TEST

| | | | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|------------------|
| Buried valve? <input type="checkbox"/> Yes <input type="checkbox"/> No Confirmed open? <input type="checkbox"/> Yes <input type="checkbox"/> 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 H2O; M = Mud; W = Whisper; S = Surge; G = Gas | 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"/> | | |
| | 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"/> | | |
| | 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: > _____ | | | | | | |

INTERMEDIATE SAMPLE TAKEN?
☐ Yes ☐ No ☐ Gas ☐ Liquid
Character of Intermediate fluid: ☐ Clear ☐ Fresh
☐ Sulfur ☐ Salty ☐ Black
Other:(describe) _____
Sample cylinder number: _____

Comments: GAS PRESENT FOR DURATION OF TEST. INSTANTANEOUS BUILT UP TO 30 PSI. SECONDARY BLOWDOWN
2019. SAMPLE TAKEN ON PREVIOUS TEST 3/7/19

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

Test Performed By: MIGUEL BARRON Title: ROUSTABOUT 1 Phone: (970) 302-2475

Signed: MISTY LUCERO Title: ENGINEERING TECH Date: 3/28/2019

Witnessed By: _____ Title: _____ Agency: _____