

FORM  
2

Rev  
12/05

State of Colorado  
Oil and Gas Conservation Commission

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



Document Number:

400343503

Date Received:

11/19/2012

PluggingBond SuretyID

20030009

APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER \_\_\_\_\_  
SINGLE ZONE ☒ MULTIPLE ☐ COMMINGLE ☐

Refiling ☐

Sidetrack ☐

3. Name of Operator: NOBLE ENERGY INC

4. COGCC Operator Number: 100322

5. Address: 1625 BROADWAY STE 2200

City: DENVER State: CO Zip: 80202

6. Contact Name: Justin Garrett Phone: (303)228-4449 Fax: (303)228-4286

Email: JDGarrett@nobleenergyinc.com

7. Well Name: Sauer Well Number: F33-77HN

8. Unit Name (if appl): Unit Number:

9. Proposed Total Measured Depth: 11317

WELL LOCATION INFORMATION

10. QtrQtr: SESW Sec: 33 Twp: 5N Rng: 65W Meridian: 6

Latitude: 40.349130 Longitude: -104.672160

Footage at Surface: 238 feet FNL/FSL 1587 feet FEL/FWL  
FSL FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4671 13. County: WELD

14. GPS Data:

Date of Measurement: 09/07/2012 PDOP Reading: 1.6 Instrument Operator's Name: Wyatt Hall

15. If well is ☐ Directional ☒ Horizontal (highly deviated) submit deviated drilling plan.

Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL FEL/FWL  
732 FSL 1319 FWL 535 FNL 1320 FWL  
Sec: 33 Twp: 5N Rng: 65W Sec: 33 Twp: 5N Rng: 65W

16. Is location in a high density area? (Rule 603b)? ☐ Yes ☒ No

17. Distance to the nearest building, public road, above ground utility or railroad: 225 ft

18. Distance to nearest property line: 238 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 58 ft

20. LEASE, SPACING AND POOLING INFORMATION

| Objective Formation(s) | Formation Code | Spacing Order Number(s) | Unit Acreage Assigned to Well | Unit Configuration (N/2, SE/4, etc.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| Niobrara               | NBRR           |                         | 320                           | GWA                                  |

21. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian Lease #: \_\_\_\_\_

22. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

23. Is the Surface Owner also the Mineral Owner? ☒ Yes ☐ No Surface Surety ID#:

23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease? ☒ Yes ☐ No

23b. If 23 is No: ☐ Surface Owners Agreement Attached or ☐ \$25,000 Blanket Surface Bond ☐ \$2,000 Surface Bond ☐ \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):

T5N-R65W Sec 33: S/2SW/4 AND OTHER LANDS

25. Distance to Nearest Mineral Lease Line: 0 ft

26. Total Acres in Lease: 480

### DRILLING PLANS AND PROCEDURES

27. Is H2S anticipated? ☐ Yes ☒ No If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling? ☐ Yes ☒ No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling? ☐ Yes ☒ No

30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)? ☐ Yes ☐ No

31. Mud disposal: ☒ Offsite ☐ Onsite

If 28, 29, or 30 are "Yes" a pit permit may be required.

Method: ☒ Land Farming ☐ Land Spreading ☐ Disposal Facility Other: Closed loop

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

| Casing Type | Size of Hole | Size of Casing | Wt/Ft | Csg/Liner Top | Setting Depth | Sacks Cmt | Cmt Btm | Cmt Top |
|-------------|--------------|----------------|-------|---------------|---------------|-----------|---------|---------|
| CONDUCTOR   | 18+1/2       | 16+0/0         |       | 0             | 100           | 6         | 100     | 0       |
| SURF        | 13+3/4       | 9+5/8          | 36    | 0             | 550           | 270       | 550     | 0       |
| 1ST         | 8+3/4        | 7+0/0          | 26    | 0             | 7,270         | 490       | 7,270   |         |
| 1ST LINER   | 6+1/8        | 4+1/2          | 11.6  | 7120          | 11,317        |           |         |         |

32. BOP Equipment Type: ☒ Annular Preventer ☒ Double Ram ☒ Rotating Head ☐ None

33. Comments The production liner will be hung off inside 7" casing. First String top of cement will be 200' above Niobrara formation. Well is part of a six-well pad consisting of the proposed Sauer F33-77-1HC (Doc #400343502), Sauer F33-77HN (Doc #400343503), Sauer F33-78-1HC (Doc #400343504), and the permitted Sauer F33-76-1HN (API 05-123-35636), Sauer F33-77-1HN (API 05-123-35634), and Sauer F33-78-1HN (API 05-123-35635); multi-well plan attached. The production facilities for the proposed pad will be added to existing equipment 610' NW of the pad site (Doc #400343506). Unit configuration = W/2. Noble Energy Inc. requests approval of Rule 318A.a Surface location outside window; 318A.c Twinning location exception, request letter attached. Waiver language is included in attached SUA. Noble Energy Inc. requests approval of a Rule 318.A.m. exception location; wellhead is to be located less than 150' from an existing wellbore. Request attached. Question 19 nearest well is Sauer F33-25 (API: 05-123-29891). The Alles F33-20D will not be drilled; abandon location sundry forthcoming.

34. Location ID: 429021

35. Is this application in a Comprehensive Drilling Plan ? ☐ Yes ☐ No

36. Is this application part of submitted Oil and Gas Location Assessment ? ☒ Yes ☐ No

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

Signed: \_\_\_\_\_ Print Name: Justin Garrett

Title: Regulatory Specialist Date: 11/19/2012 Email: JDGarrett@nobleenergyinc.co

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Matthew Lee Director of COGCC Date: 12/23/2012

#### API NUMBER

05 123 36442 00

Permit Number: \_\_\_\_\_ Expiration Date: 12/22/2014

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

- 1) Provide notice of MIRU via an electronic Form 42.
- 2) Comply with Rule 317.i and provide cement coverage from the 7" casing TD to a minimum of 200' above the Niobrara. Verify coverage with a cement bond log.

Operator must meet Water Well Testing requirements as per amended Rule 318Ae(4)

### **Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

### **Attachment Check List**

| Att Doc Num | Name                   |
|-------------|------------------------|
| 2481940     | SURFACE CASING CHECK   |
| 400343503   | FORM 2 SUBMITTED       |
| 400348151   | 30 DAY NOTICE LETTER   |
| 400348194   | PLAT                   |
| 400348196   | DEVIATED DRILLING PLAN |
| 400348197   | MULTI-WELL PLAN        |
| 400348198   | SURFACE AGRMT/SURETY   |
| 400348200   | EXCEPTION LOC REQUEST  |
| 400348201   | EXCEPTION LOC REQUEST  |
| 400348204   | PROPOSED SPACING UNIT  |
| 400349672   | DIRECTIONAL DATA       |

Total Attach: 11 Files

### **General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b>  | <b><u>Comment Date</u></b> |
|--------------------------|--|----------------------------|
| Permit                   | Final Review Completed. No LGD or public comment received.   | 12/20/2012<br>8:19:20 AM   |
| Permit                   | Corrected distance to nearest lease line as per opr: Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 535'. Mineral Lease totals 480 acres.<br>Ready to pass pending public comment 12/13/12.  | 11/27/2012<br>10:35:34 AM  |
| Permit                   | Corrected spacing as per GWA & notified opr.<br>Operator requests approval of a Rule 318Aa and Rule 318Ac exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Request and waivers attached.<br>Operator requests approval of a Rule 318Am exception location: Wellbore is to be located less than 150' from an existing wellbore. Request and waivers attached. | 11/27/2012<br>9:20:46 AM   |
| Engineer                 | Evaluated offset wells for adequate cement coverage.   | 11/26/2012<br>1:31:29 PM   |
| Permit                   | operator attached corrected directional drilling data spreadsheet and template. This form passed completeness.   | 11/26/2012<br>1:01:06 PM   |
| Permit                   | Return to draft:<br>1. directional drilling data spreadsheet well name and data values do not match deviated drilling plan,<br>2. directional drilling template well name and data values do not match deviated drilling plan.   | 11/22/2012<br>11:14:35 PM  |

Total: 6 comment(s)

## BMP

| <u>Type</u>                            | <u>Comment</u>  |
|--|---|
| General Housekeeping                   | Housekeeping will consist of neat and orderly storage of materials and fluids. Wastes will be temporarily stored in sealed containers and regularly collected and disposed of at offsite, suitable facilities. If spills occur prompt cleanup is required to minimize any commingling of waste materials with stormwater runoff. Routine maintenance will be limited to fueling and lubrication of equipment. Drip pans will be used during routine fueling and maintenance to contain spills or leaks. Any waste product from maintenance will be containerized and transported offsite for disposal or recycling. There will be no major equipment overhauls conducted onsite. Equipment will be transported offsite for major overhauls. Cleanup of trash and discarded materials will be conducted at the end of each work day. Cleanup will consist of patrolling the roadway, access areas, and other work areas to pickup trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.   |
| Material Handling and Spill Prevention | Spill Prevention Control and Countermeasures (SPCC) plans are in place to address any possible spill associated with Oil & Gas operations throughout the state of Colorado in accordance with CFR 112.  |
| Drilling/Completion Operations         | <p>Anti-collision:<br/>Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to COGCC with the Form 5.</p> <p>During and Post stimulation:<br/>Noble Energy will comply with the COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated 5/29/12</p> |
| Storm Water/Erosion Control            | Stormwater management plans (SWMP) are in place to address construction, drilling and operations associated with Oil & Gas development throughout the state of Colorado in accordance with Colorado Department of Public Health and Environment (CDPHE) General Permit No. COR- 038637. BMP's will be constructed around the perimeter of the site prior to, or at the beginning of construction. BMP's used will vary according to the location, and will remain in place until the pad reaches final reclamation.   |

Total: 4 comment(s)