

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:

400239414

Date Received:

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 ☐

PluggingBond SuretyID

20030009

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: JAN KAJIWARA Phone: (303)228-4092 Fax: (303)228-4286

Email: jkajiwara@nobleenergyinc.com

7. Well Name: LORENZ F Well Number: 22-67-1HN

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

9. Proposed Total Measured Depth: 11260

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 22 Twp: 5N Rng: 65W Meridian: 6

Latitude: 40.389220 Longitude: -104.641010

Footage at Surface: 970 feet FNL/FSL FNL 310 feet FEL/FWL FEL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4625 13. County: WELD

14. GPS Data:

Date of Measurement: 10/25/2011 PDOP Reading: 2.2 Instrument Operator's Name: DAVID C HOLMES

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  
1647 FNL 733 FEL 1650 FNL 535 FWL  
Sec: 22 Twp: 5N Rng: 65W Sec: 22 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: 278 ft

18. Distance to nearest property line: 310 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 200 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):

SEE ATTCHED LEASE MAP

25. Distance to Nearest Mineral Lease Line: 0 ft

26. Total Acres in Lease: 606

### 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             | 100           | 6         | 100     | 0       |
| SURF        | 13+3/4       | 9+5/8          | 36    | 0             | 550           | 276       | 550     | 0       |
| 1ST         | 8+3/4        | 7              | 26    | 0             | 7,242         | 507       | 7,242   |         |
| 1ST LINER   | 6+1/8        | 4+1/2          | 11.6  | 6029          | 11,260        |           |         |         |

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

33. Comments 6 WELL PAD: LORENZ F22-17, F22-18D, F22-67-1HN, F22-68-1HN, F22-69HN, F23-31D. SEE ATTACHED SAVAGE AND SAVAGE REPORT ON WETLAND DETERMINATION. FACILITIES TO BE BUILT APPROX. 571'S FROM PROPOSED PAD. UNIT CONFIGURATION = N/2 22-5N-65W. EXCEPTION LOCATION TO RULE 318A.a and 318A.c REQUESTED AND ATTACHED.

34. Location ID: \_\_\_\_\_

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: JAN KAJIWARA

Title: REGULATORY ANALYST Date: \_\_\_\_\_ Email: jkajiwara@nobleenergyinc.com

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: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

API NUMBER

05

Permit Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

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.

### **Attachment Check List**

| Att Doc Num | Name                    |
|-------------|-------------------------|
| 400241557   | 30 DAY NOTICE LETTER    |
| 400241558   | DEVIATED DRILLING PLAN  |
| 400241562   | WELL LOCATION PLAT      |
| 400241563   | EXCEPTION LOC WAIVERS   |
| 400241602   | DIRECTIONAL DATA        |
| 400284208   | LEGAL/LEASE DESCRIPTION |
| 400284209   | EXCEPTION LOC REQUEST   |
| 400284210   | PROPOSED SPACING UNIT   |
| 400284804   | SENSITIVE AREA DATA     |

Total Attach: 9 Files

### **General Comments**

| <b><u>User Group</u></b> | <b><u>Comment</u></b> | <b><u>Comment Date</u></b> |
|--------------------------|-----------------------|----------------------------|
|                          |                       |                            |

Total: 0 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 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.  |
| Drilling/Completion Operations         | <ol style="list-style-type: none"><li>1. At least seven (7) days prior to fracture stimulation, the operator is to notify all operators of non-operated wells within 300 feet of the wellbore to be fracture stimulated of the anticipated date stimulation date and the recommended best management practice to shut-in all wells within 300' of the stimulated wellbore completed in the same formation.</li><li>2. The operator will have bradenhead pressure monitored for all wells identified within 300 feet of the well to be fracture stimulated. The well within 300 feet is operated by Unioil, a wholly owned subsidiary of Petroleum Development Corporation, and has agreed to comply with the BMPs respecting horizontal well fracturing stimulation.</li><li>3. Bradenhead pressure gauges are to be installed 24 hours prior to stimulation. The gauges are to read at least once during every 24-hour period until 24-hours after stimulation is completed (post flowback). The gauges are to be of the type able to read current pressure and record the maximum encountered pressure in a 24-hour period. The gauge is to be reset between each 24-hour period. The pressures are to be recorded and saved. Alternate electronic measurement may be used to record the prescribed pressures. Data shall be kept for a period of one year.</li></ol> |
| Storm Water/Erosion Control            | 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.  |

Total: 4 comment(s)