

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:

400320764

Date Received:

08/27/2012

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: MARI CLARK Phone: (303)228-4413 Fax: (303)228-4286

Email: mclark@nobleenergyinc.com

7. Well Name: FURROW USX AB Well Number: 16-62-1HNL

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

9. Proposed Total Measured Depth: 16310

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 22 Twp: 7N Rng: 64W Meridian: 6

Latitude: 40.565570 Longitude: -104.527250

Footage at Surface: 155 feet FNL 338 feet FEL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4830 13. County: WELD

14. GPS Data:

Date of Measurement: 03/15/2012 PDOP Reading: 1.0 Instrument Operator's Name: ROBERT DALEY

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

Footage at Top of Prod Zone: 321 FSL 988 FEL Bottom Hole: 330 FSL 535 FWL  
Sec: 15 Twp: 7N Rng: 64W Sec: 16 Twp: 7N Rng: 64W

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: 333 ft

18. Distance to nearest property line: 155 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		637	GWA

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: 8969-6

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):

STATE = SEC. 16: ALL, FEE = SEC. 15: ALL.

25. Distance to Nearest Mineral Lease Line: 0 26. Total Acres in Lease: 1280

### 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	100	6	100	0
SURF	13+3/4	9+5/8	36	0	640	300	640	0
1ST	8+3/4	7	26	0	7,297	510	7,297	
1ST LINER	6+1/8	4+1/2	11.6	7150	16,310			

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

33. Comments 1ST STRING TOP OF CEMENT = 200' ABOVE NIOBRARA. THE PRODUCTION LINER WILL BE HUNG OFF INSIDE 7" CASING. WELL IS TO BE TWINNED WITH FURROW USX AB21-69-1HNL CREATNG A 2 WELL PAD. UNIT CONFIGURATION = S/2S/2 SEC. 15, S/2S/2 SEC. 16, N/2N/2 SEC. 21 & N/2N/2 SEC. 22. THE PRODUCTION FACILITIES WILL BE LOCATED ON THE SAME LOCATION & DEDICATED TO THE WELL LOCATION BEING PERMITTED. Noble Energy will comply with the COGCC Policy for Bradenhead Monitoring during Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated 5/29/12. THE STATE LEASE = S/2S/2 OF SECTION 16. EVERYTHING ELSE = FEE.

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: MARI CLARK

Title: REGULATORY ANALYST II Date: 8/27/2012 Email: mclark@nobleenergyinc.com

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: 9/28/2012

Permit Number: \_\_\_\_\_ Expiration Date: 9/27/2014

**API NUMBER**  
05 123 36125 00

**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.

Operator must meet water well testing requirements per Rule 318A.

- 1) Note surface casing setting depth change from 600' to 640'. Increase cement coverage accordingly and cement to surface.
- 2) Provide notice of MIRU via an electronic Form 42.
- 3) 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.

### Attachment Check List

Att Doc Num	Name
400320764	FORM 2 SUBMITTED
400320776	30 DAY NOTICE LETTER
400320777	DIRECTIONAL DATA
400320778	DEVIATED DRILLING PLAN
400320779	EXCEPTION LOC REQUEST
400320780	EXCEPTION LOC WAIVERS
400320782	PROPOSED SPACING UNIT
400320783	SURFACE AGRMT/SURETY
400324165	WELL LOCATION PLAT

Total Attach: 9 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	Horizontal well crosses lease lines within GWA horizontal wellbore unit; distance to lease line is 0'; distance to unit boundary is 535'.	9/28/2012 10:18:08 AM
Permit	Final Review Completed. No LGD or public comment received.	9/27/2012 6:56:55 AM
Permit	Changed mineral ownership from state to fee. This well will produce both state and fee minerals. The fee minerals are owned by the surface owner so the right to construct is granted by an O&G lease as well as a SUA.	9/27/2012 6:51:18 AM
Permit	Removed 318A.e exception location request comment per operator.	9/20/2012 9:32:40 AM
Permit	Bond in good order with State Land Board	9/11/2012 11:31:35 AM
Permit	Operator requests approval of a Rule 318Aa exception location: Wellhead is to be located outside of a GWA drilling window. Request and Waiver attached.	9/11/2012 9:29:31 AM
Engineer	Evaluated offset wells for adequate cement coverage.	9/11/2012 8:45:10 AM
Permit	Operator corrected surety ID and clarified questions 20, 21, 22, and 15.	9/6/2012 11:02:43 AM
Permit	Return to Draft: Surety ID does not match Questions 20, 21 and 22 conflict Question 15 BHL direction does not match plats and other attachments	8/29/2012 6:02:46 PM

Total: 9 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
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.
Drilling/Completion Operations	<p>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.</p> <p>2. The operator will have bradenhead pressure monitored for all wells identified within 300 feet of the well to be fracture stimulated. All wells within 300 feet are operated by Noble Energy Inc.</p> <p>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.</p> <p>If at any time during stimulation or the 24-hour post-stimulation period, the bradenhead annulus pressure of the treatment well or offset wells increases more than 200 psig, as per Rule 341, the operator of the well being stimulated shall verbally notify the Director as soon as practicable, but no later than twenty-four (24) hours following the incident. Within fifteen (15) days after the occurrence, the operator shall submit a Sundry Notice, Form 4, giving all details, including corrective actions taken.</p>
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.
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.

Total: 4 comment(s)