

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:

400320763

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: 21-69-1HNL

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

9. Proposed Total Measured Depth: 16263

WELL LOCATION INFORMATION

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

Latitude: 40.565470 Longitude: -104.527260

Footage at Surface: 192 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: 337 FNL 994 FEL Bottom Hole: 330 FNL 535 FWL
Sec: 22 Twp: 7N Rng: 64W Sec: 21 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: 192 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):
 T7N-R64W, SEC. 21: W/2, SE/4, W/2NE/4, E/2NE/4 AND SEC. 22: N/2

25. Distance to Nearest Mineral Lease Line: 0 ft 26. Total Acres in Lease: 960

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	7,260	508	7,260	
1ST LINER	6+1/8	4+1/2	11.6	7150	16,263			

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 AB16-62-1HNL CREATING 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. EXCEPTION LOCATION TO RULE 318A.e REQUESTED AND ATTACHED. 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 LEASE ASSOCIATED WITH THE STATE MINERALS = S/2S/2 OF SECTION 16. EVERYTHING ELSE IS 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

API NUMBER: **05 123 36131 00** Permit Number: _____ Expiration Date: 9/27/2014

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.

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
400320763	FORM 2 SUBMITTED
400321018	DIRECTIONAL DATA
400321019	30 DAY NOTICE LETTER
400321020	EXCEPTION LOC REQUEST
400321021	EXCEPTION LOC WAIVERS
400321023	WELL LOCATION PLAT
400321027	PROPOSED SPACING UNIT
400321030	SURFACE AGRMT/SURETY
400321036	DEVIATED DRILLING PLAN

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 10:17:16 AM
Permit	Final Review Completed. No LGD or public comment received.	9/27/2012 8:59:22 AM
Permit	Requested distance to nearest wellbore. Form ok to pass once received.	9/27/2012 7:09:37 AM
Permit	Removed 318A.e exception location request comment per operator.	9/20/2012 9:31:45 AM
Engineer	Evaluated offset wells for adequate cement coverage.	9/11/2012 12:41:23 PM
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 9:27:40 AM
Permit	Corrected surface and minerals per operator. Requested distance to nearest wellbore.	9/11/2012 9:27:01 AM
Permit	Operator corrected plugging bond surety ID and clarified questions 20, 21 and 22.	9/6/2012 9:50:46 AM
Permit	Return to Draft: Plugging bond surety ID does not match Questions 20, 21, and 22 conflict	8/29/2012 5:46:06 PM

Total: 9 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>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: 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)