

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:

400326930

Date Received:

11/06/2012

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: SUSAN MILLER Phone: (303)228-4246 Fax: (303)228-4286

Email: smiller@nobleenergyinc.com

7. Well Name: THISTLE DOWN PC Well Number: F36-69HC

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

9. Proposed Total Measured Depth: 11410

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 25 Twp: 5N Rng: 65W Meridian: 6

Latitude: 40.365990 Longitude: -104.605110

Footage at Surface: 1136 feet FSL 860 feet FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4723 13. County: WELD

14. GPS Data:

Date of Measurement: 07/12/2012 PDOP Reading: 1.5 Instrument Operator's Name: Brian Brinkman

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  
76 FNL 735 FEL 75 FNL 535 FWL  
Sec: 36 Twp: 5N Rng: 65W Sec: 36 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: 293 ft

18. Distance to nearest property line: 159 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 137 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 #: 81/6053-S

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 Section 36: All. Both State and fee lands are in the spacing unit. All surface facilities are on the fee lands but the wellbore itself is running laterally through the State lands.

25. Distance to Nearest Mineral Lease Line: 75 ft 26. Total Acres in Lease: 640

### 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	600	290	600	0
1ST	8+3/4	7	26	0	7,403	500	7,403	0
1ST LINER	6+1/8	4+1/2	11.6	7253	11,410			

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

33. Comments First string top of cement will be 200' above the Niobrara formation. The production liner will be hung off inside of the 7" casing. This is a single, horizontal well with facilities to be located off site. See 2A doc. no. 400326948 for well location and 2A doc. no. 400327760 for Facilities. Nearest well permitted/completed in same formation is Thistle Down B31-30D (API No. 05-123-29317) with actual productive interval located 137' north of the well being permitted. Unit Configuration: Sec. 25: S/2S/2; Sec. 36: N/2N/2. Please see attached Surface Use Agreement, Item 1., Section D., Page 2 of 4, for waiver of COGCC rules 318A.c. (twinning) and 318A.a. (out of window).

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: SUSAN MILLER

Title: Regulatory Analyst III Date: 11/6/2012 Email: smiller@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: 12/6/2012

**API NUMBER**  
05 123 36391 00

Permit Number: \_\_\_\_\_ Expiration Date: 12/5/2014

**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
1699175	EXCEPTION LOC REQUEST
2481922	SURFACE CASING CHECK
400326930	FORM 2 SUBMITTED
400326947	30 DAY NOTICE LETTER
400333308	WELL LOCATION PLAT
400333309	DEVIATED DRILLING PLAN
400333311	DIRECTIONAL DATA
400343574	PROPOSED SPACING UNIT
400343575	PROPOSED SPACING UNIT
400343576	SURFACE AGRMT/SURETY
400343613	OTHER
400343614	PROPOSED SPACING UNIT

Total Attach: 12 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Received approval from State Land Board for well. Final Review Completed. No LGD or public comment received.	12/6/2012 8:52:59 AM
Permit	Wellbore goes through State Lease. Sherry Lee at the State Landboard notified.	11/30/2012 3:08:54 PM
Engineer	Evaluated offset wells for adequate cement coverage.	11/14/2012 2:18:24 PM
Permit	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. 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. Corrected the spacing in the objectiver formation tab. Attached exception location request. Ready to pass pending public comment 11/26/12.	11/7/2012 11:37:58 AM
Permit	This form passed completeness.	11/6/2012 11:17:56 AM

Total: 5 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) and 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.
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: 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 Inc. will comply with the COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area dated 5/29/12.</p>
General Housekeeping	General 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 pick up trash, scrap debris, other discarded materials, and any contaminated soil. These materials will be disposed of properly.

Total: 4 comment(s)