

**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

Document Number:  
400201368

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: SUSAN MILLER      Phone: (303)228-4246      Fax: (303)228-4286  
Email: smiller@nobleenergyinc.com

7. Well Name: STATE      Well Number: Y16-18D

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

9. Proposed Total Measured Depth: 7877

**WELL LOCATION INFORMATION**

10. QtrQtr: SWNE      Sec: 16      Twp: 2N      Rng: 64W      Meridian: 6  
Latitude: 40.142020      Longitude: -104.552280

Footage at Surface:      1351 feet      FNL      1479 feet      FEL

11. Field Name: Wattenberg      Field Number: 90750

12. Ground Elevation: 4927      13. County: WELD

14. GPS Data:  
Date of Measurement: 08/09/2011      PDOP Reading: 1.9      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

1320      FNL      2565      FWL      1320      FNL      2565      FWL

Sec: 16      Twp: 2N      Rng: 64W      Sec: 16      Twp: 2N      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: 1350 ft

18. Distance to nearest property line: 1351 ft      19. Distance to nearest well permitted/completed in the same formation(BHL): 855 ft

**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.)
Codell	CODL	407-87	160	GWA
J Sand	JSND	232-23	160	GWA
Niobrara	NBRR	407-87	160	GWA

21. Mineral Ownership:       Fee       State       Federal       Indian      Lease #: 70-7879

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):  
T2N-R64W Section 16: All.

25. Distance to Nearest Mineral Lease Line:      1320 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
SURF	12+1/4	8+5/8	24	0	920	330	920	0
1ST	7+7/8	4+1/2	11.6	0	7,877	550	7,877	

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

33. Comments      Conductor casing will not be used. First string top of cement will be 200' above the Niobrara formation. This is part of a 6-well, multi-well pad which includes the State Y16-18D, State Y16-02D, State Y16-07D, State Y16-08D, State Y16-01D and State Y15-31D. Twinning existing State #1 well. As-built GPS Sundry notice submitted for this existing straight hole well. See 2A doc. no. 400201070 which covers all 6 locations. Unit Configuration: E/2NW/4, W/2NE/4.

34. Location ID:      317671

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 II                      Date: 11/29/2011                      Email: smiller@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: David S. Neslin                      Director of COGCC      Date: 12/23/2011

<b>API NUMBER</b>
05 123 34839 00

Permit Number: \_\_\_\_\_      Expiration Date: 12/22/2013

#### 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 sampling requirements per rule 318A.

- 1) Note surface casing setting depth change from 800' to 920'. Increase cement coverage accordingly and cement to surface.
- 2) Provide 24 hour notice of MIRU to Jim Precup via e-mail at james.precup@state.co.us.
- 3) Comply with Rule 317.i and provide cement coverage from the end of the production casing to a minimum of 200' above the Niobrara. Verify coverage with a cement bond log.
- 4) Comply with Rule 321. Run and submit Directional Survey from the end of production casing to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

### **Attachment Check List**

Att Doc Num	Name
2481323	SURFACE CASING CHECK
400201368	FORM 2 SUBMITTED
400201407	30 DAY NOTICE LETTER
400216946	WELL LOCATION PLAT
400216947	DEVIATED DRILLING PLAN
400216949	PROPOSED SPACING UNIT
400227139	PROPOSED SPACING UNIT
400227140	PROPOSED SPACING UNIT

Total Attach: 8 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	No LGD or public comment received; final review completed.	12/21/2011 5:49:31 AM
Permit	Notified SLB.	11/30/2011 5:24:21 AM

Total: 2 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.
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.
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.

Total: 3 comment(s)