

FORM  
2

Rev  
12/05

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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APPLICATION FOR PERMIT TO:

1.  Drill,  Deepen,  Re-enter,  Recomplete and Operate

2. TYPE OF WELL

OIL  GAS  COALBED  OTHER \_\_\_\_\_  
SINGLE ZONE  MULTIPLE ZONE  COMMINGLE ZONE

Refiling   
Sidetrack

Document Number:  
400161109  
Plugging Bond Surety  
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: SPIKE STATE Well Number: D10-21D

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

9. Proposed Total Measured Depth: 7698

WELL LOCATION INFORMATION

10. QtrQtr: SWNE Sec: 10 Twp: 3N Rng: 64W Meridian: 6

Latitude: 40.240070 Longitude: -104.532800

Footage at Surface: 2593 feet <sup>FNL/FSL</sup> FNL 1390 feet <sup>FEL/FWL</sup> FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4762 13. County: WELD

14. GPS Data:

Date of Measurement: 04/13/2011 PDOP Reading: 3.3 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: <sup>FNL/FSL</sup> 2450 <sup>FSL</sup> FSL <sup>FEL/FWL</sup> 2550 <sup>FEL</sup> FEL Bottom Hole: <sup>FNL/FSL</sup> 2450 <sup>FSL</sup> FSL <sup>FEL/FWL</sup> 2550 <sup>FEL</sup> FEL  
Sec: 10 Twp: 3N Rng: 64W Sec: 10 Twp: 3N 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: 4150 ft

18. Distance to nearest property line: 53 ft 19. Distance to nearest well permitted/completed in the same formation: 1761 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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| 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 #: \_\_\_\_\_

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 Bon  \$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):  
Please see attached mineral lease map.

25. Distance to Nearest Mineral Lease Line: 200 ft 26. Total Acres in Lease: 4737

### 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             | 650           | 212       | 650     | 0       |
| 1ST         | 7+7/8        | 4+1/2          | 11.6  | 0             | 7,698         | 700       | 7,698   |         |

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 proposed well will twin the approved Karch D10-22 (05-123-32939) location and will be located approximately 22' due north of the Karch D10-22 proposed location. Production facility equipment for the Spike State D10-21D will be added to the Karch D10-22 production facility with no additional disturbance. Operator requests approval of Rule 603a(2) exception location for well location 53' from nearest property line, request letter and signed waiver attached. Unit Configuration: SWNE, SENW, NESW, NWSE.

34. Location ID: 421500

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

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

**API NUMBER**  
05

**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.

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**Attachment Check List**

| Att Doc Num | Name                   |
|-------------|------------------------|
| 400161188   | 30 DAY NOTICE LETTER   |
| 400161189   | WELL LOCATION PLAT     |
| 400161190   | DEVIATED DRILLING PLAN |
| 400161192   | EXCEPTION LOC WAIVERS  |
| 400161193   | EXCEPTION LOC REQUEST  |
| 400161194   | EXCEPTION LOC WAIVERS  |
| 400161196   | EXCEPTION LOC REQUEST  |
| 400165289   | PROPOSED SPACING UNIT  |
| 400165292   | PROPOSED SPACING UNIT  |
| 400165294   | OTHER                  |
| 400165298   | MINERAL LEASE MAP      |
| 400165323   | SURFACE AGRMT/SURETY   |

Total Attach: 12 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>  |
|--|---|
| 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-039527. 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.  |
| 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: 3 comment(s)