

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:  
400068486  
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: FIVE RIVERS Well Number: K15-31D

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

9. Proposed Total Measured Depth: 7558

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 16 Twp: 4N Rng: 66W Meridian: 6  
Latitude: 40.318270 Longitude: -104.774130

Footage at Surface: 240 FNL/FSL FNL 246 FEL/FWL FEL

11. Field Name: Hambert Field Number: 33530

12. Ground Elevation: 4730 13. County: WELD

14. GPS Data:

Date of Measurement: 05/03/2010 PDOP Reading: 1.2 Instrument Operator's Name: Michael Chad Dilka

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

Footage at Top of Prod Zone: FNL/FSL 1320 FNL 75 FEL 1320 FNL 75 FEL  
Sec: 16 Twp: 4N Rng: 66W Sec: 16 Twp: 4N Rng: 66W

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: 202 ft

18. Distance to nearest property line: 240 ft 19. Distance to nearest well permitted/completed in the same formation: 917 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
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#: 20030012

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):  
T4N-R66W Section 16: E/2NE/4.

25. Distance to Nearest Mineral Lease Line: 75 ft 26. Total Acres in Lease: 80

### 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 27 or 28 are yes, is this location in a sensitive area (Rule 903)?  Yes  No **If 28, 29, or 30 are "Yes" a pit permit may be required.**

31. Mud disposal:  Offsite  Onsite

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	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
SURF	12+1/4	8+5/8	24	580	244	580	0
1ST	7+7/8	4+1/2	11.6	7,558	704	7,558	

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 well is part of a 2-well, multi-well pad permit which includes Five Rivers K15-30D (reference well) and Five Rivers K15-31D. 2A filed under Five Rivers K15-30D, document no. 400068472. See form 2A document no. 400054939 for production facility (already submitted to COGCC). Proposed GWA Unit Configuration for NB-CD: T4N-R66W, W/2NW/4 Section 15; E/2NE/4 Section 16. Noble Energy Inc. requests approval of a Rule 318Aa, Rule 318Ae, and Rule 318Ac exception location: Wellhead is to be located outside of a GWA drilling window, the well will be drilled to a 318Ae infill location from outside of a GWA drilling window, and the wellhead will be located more than 50' from an existing well location.

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 II Date: 10/6/2010 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. Nesline Director of COGCC Date: 10/30/2010

Permit Number: \_\_\_\_\_ Expiration Date: 10/29/2012

**API NUMBER**

05 123 32466 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.

- 1) Provide 24 hour notice of MIRU to Bo Brown at 970-397-4124 or e-mail at bo.brown@state.co.us.
- 2) Comply with Rule 317.i and provide cement coverage from TD to a minimum of 200' above Niobrara and from 200' below Sussex to 200' above Sussex. Verify coverage with cement bond log.
- 3) Comply with Rule 321. Run and submit Directional Survey from TD 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	Doc Description
400068514	30 DAY NOTICE LETTER	LF@2599239 400068514
400068515	EXCEPTION LOC WAIVERS	LF@2599240 400068515
400088915	PROPOSED SPACING UNIT	LF@2599241 400088915
400088916	PROPOSED SPACING UNIT	LF@2599242 400088916
400088917	WELL LOCATION PLAT	LF@2599243 400088917
400088918	DEVIATED DRILLING PLAN	LF@2599244 400088918
400088919	EXCEPTION LOC REQUEST	LF@2599245 400088919
400097987	PROPOSED SPACING UNIT	LF@2599246 400097987
400105011	FORM 2 SUBMITTED	LF@2599238 400105011

Total Attach: 9 Files

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