

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 ☒ COMMINGLE ☒

Refilling ☒

Sidetrack ☐

Document Number:

400176445

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: JEAN MUSE-REYNOLDS Phone: (303)228-4316 Fax: (303)228-4286

Email: jmuse@nobleenergyinc.com

7. Well Name: SPRUCE CREEK Well Number: 8-31D (8A pad)

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

9. Proposed Total Measured Depth: 9447

WELL LOCATION INFORMATION

10. QtrQtr: NENE Sec: 8 Twp: 7S Rng: 94W Meridian: 6

Latitude: 39.458705 Longitude: -107.905975

Footage at Surface: 422 feet FNL/FSL 1109 feet FEL/FWL  
FNL FEL

11. Field Name: RULISON Field Number: 75400

12. Ground Elevation: 6455 13. County: GARFIELD

14. GPS Data:

Date of Measurement: 09/12/2008 PDOP Reading: 2.4 Instrument Operator's Name: JOHN RICHARDSON

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  
1159 FNL 1825 FEL 1159 FNL 1825 FEL  
Sec: 8 Twp: 7S Rng: 94W Sec: 8 Twp: 7S Rng: 94W

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: 1300 ft

18. Distance to nearest property line: 1186 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 330 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.)
ILES	ILES	139-73	40	NWNE
WILLIAMS FORK	WMFK	139-73	40	NWNE

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 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):

On file with the State of Colorado.

25. Distance to Nearest Mineral Lease Line: 176 ft

26. Total Acres in Lease: 200

### 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 SYSTEM

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	20+0/0	16+0/0		0	60	70	60	0
SURF	12+1/4	8+5/8	32	0	1,500	550	1,500	0
1ST	7+7/8	4+1/2	11.6	0	9,447	1,030	9,447	200

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

33. Comments Parasite string 3000'. The Production Casing Top of Cement will be 200' above Top of Gas. All conditions are the same as prior approved permit. No pits will be constructed. A closed loop system will be used for this APD. This re-file will not require any expansion/additional disturbance. This location does not require a variance from any of the rules listed in COGCC Rule 306.d (1). (A).(ii). This location is not in a wildlife restricted surface occupancy area.

34. Location ID: 413476

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: JEAN MUSE-REYNOLDS

Title: REGULATORY COMPLIANCE

Date: 9/13/2011

Email: jmuse@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: 10/6/2011

#### API NUMBER

05 045 18559 00

Permit Number: \_\_\_\_\_ Expiration Date: 10/5/2013

#### 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.

(1) COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED.

(2) GARFIELD COUNTY RULISON-FIELD NOTICE TO OPERATORS. NOTE: ALL NOTICES SHALL BE GIVEN VIA E-MAIL. SEE ATTACHED NOTICE

(3) THE MOISTURE CONTENT OF ANY DRILL CUTTINGS IN A CUTTINGS PIT, TRENCH, OR PILE SHALL BE AS LOW AS PRACTICABLE TO PREVENT ACCUMULATION OF LIQUIDS GREATER THAN DE-MINIMIS AMOUNTS. AT THE TIME OF CLOSURE, THE DRILL CUTTINGS MUST ALSO MEET THE APPLICABLE STANDARDS OF TABLE 910-1.

(4) NO PORTION OF ANY PIT THAT WILL BE USED TO HOLD LIQUIDS SHALL BE CONSTRUCTED ON FILL MATERIAL, UNLESS THE PIT AND FILL SLOPE ARE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER, SUBJECT TO REVIEW AND APPROVAL BY THE DIRECTOR PRIOR TO CONSTRUCTION OF THE PIT. THE CONSTRUCTION AND LINING OF THE PIT SHALL BE SUPERVISED BY A PROFESSIONAL ENGINEER OR THEIR AGENT. THE ENTIRE BASE OF THE PIT MUST BE IN CUT.

(5) THE SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1 -MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1-MILE IS 300 FEET DEEP.

### **Attachment Check List**

Att Doc Num	Name
400176445	FORM 2 SUBMITTED
400203965	H2S CONTINGENCY PLAN
400205071	WELL LOCATION PLAT
400205072	LOCATION PICTURES
400205073	OTHER
400205074	ACCESS ROAD MAP
400205075	REFERENCE AREA PICTURES
400205076	APD APPROVED
400205077	CONST. LAYOUT DRAWINGS
400205078	LOCATION DRAWING
400205079	HYDROLOGY MAP
400205080	REFERENCE AREA MAP
400205081	MULTI-WELL PLAN

Total Attach: 13 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	LGD/Public comm. waived. Final Comprehensive Review Status--passed.	10/6/2011 10:31:47 AM
Permit	CHECKED COMMINGLE ZONES. READY TO APP. IN PERMITTING WHEN LGD & PUB. EXP. 10/4.	10/3/2011 7:57:55 AM

Total: 2 comment(s)

## **BMP**

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	<ul style="list-style-type: none"><li>• Stormwater management practices during construction and interim reclamations phases in accordance with CDPHE regulations.</li><li>• Stormwater management practices in accordance with COGCC rules throughout the operating life of the locations.</li></ul>
Material Handling and Spill Prevention	<ul style="list-style-type: none"><li>• Spill Prevention Control and Countermeasure (SPCC) Plans in accordance with 40 CFR, Part 112.</li><li>• Secondary containment for oil and produced water vessels in accordance with COGCC rules.</li></ul>
General Housekeeping	<ul style="list-style-type: none"><li>• Waste minimization practices including re-use and recycling when practicable.</li><li>• Waste management (handling and disposal) practices in accordance with COGCC rules and RCRA guidelines as applicable.</li><li>• Good housekeeping practices relative to overall site condition.</li></ul>
Planning	<ul style="list-style-type: none"><li>• Traffic minimization practices whenever possible in order to reduce dust, noise, congestion, road maintenance.</li><li>• Noise minimization.</li><li>• Use of multi-well pad sites for the purpose of minimizing areas of disturbance, traffic, and environmental impact.</li><li>• Proper reclamation and reseeding practices in accordance with COGCC rules, landowner requirements and BLM stipulations as applicable.</li></ul>
Drilling/Completion Operations	<ul style="list-style-type: none"><li>• Spill reporting and cleanup per COGCC guidelines, EPA regulations, CDPEH regulations, and Noble Energy Inc. policies.</li></ul>
Wildlife	Bird protection practices in accordance with the Migratory Bird Act.
Interim Reclamation	Use of portable toilets whenever long-term activities are occurring onsite.

Total: 7 comment(s)