

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



DE ET OE ES

Document Number:

400176501

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

Email: jmuse@nobleenergyinc.com

7. Well Name: BATTLEMENT MESA Well Number: 34-21D (34F)

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

9. Proposed Total Measured Depth: 9958

WELL LOCATION INFORMATION

10. QtrQtr: SENW Sec: 34 Twp: 7S Rng: 95W Meridian: 6

Latitude: 39.396708 Longitude: -107.984673

Footage at Surface: 1557 feet FNL/FSL 2292 feet FEL/FWL
FNL FWL

11. Field Name: PARACHUTE Field Number: 67350

12. Ground Elevation: 8288 13. County: GARFIELD

14. GPS Data:

Date of Measurement: 01/10/2008 PDOP Reading: 2.7 Instrument Operator's Name: ROBERT WOOD

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
1220 FNL 1945 FWL 1220 FNL 1945 FWL
Sec: 34 Twp: 7S Rng: 95W Sec: 34 Twp: 7S Rng: 95W

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: 1561 ft

18. Distance to nearest property line: 355 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 314 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.)
WILLIAMS FORK	WMFK	139-53	640	ALL

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: 702 ft

26. Total Acres in Lease: 3721

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	100	15	100	0
SURF	14+3/4	9+5/8	24	0	3,000	550	3,000	0
1ST	7+7/8	4+1/2	11.6	0	9,958	650	9,958	

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 the top of gas. All conditions are the same as prior approved permit. The pad is located in Project Rulison 3-mile Radius Tier II. DOE was notified 7/27/09. The pad has been built. 9 wells have been drilled on this pad. The existing pit was closed 2/1/10. No new pits will be constructed. A closed loop system will be used for this APD. This re-file will not require any expansion/additional surface disturbance of the pad. 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: 334384

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: 9/16/2011 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. Nash

Director of COGCC Date: 10/12/2011

API NUMBER

05 045 17165 00

Permit Number: _____ Expiration Date: 10/11/2013

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) PERFORM A HIGH-ACCURACY GYROSCOPIC DIRECTIONAL WELLBORE SURVEY UPON REACHING TOTAL DEPTH OF THE WELL. E-MAIL A COPY OF THE SURVEY ALONG WITH A SUNDRY NOTICE, FORM 4, REQUESTING APPROVAL TO DAVID.ANDREWS@STATE.CO.US THE DIRECTIONAL DRILLING SURVEY REPORT SHALL INCLUDE A MAP VIEW AND A VERTICAL PROFILE VIEW SHOWING WELLBORE TRAJECTORY AND DISTANCE FROM THE ½-MILE RADIUS FROM PROJECT RULISON. THE OPERATOR SHALL OBTAIN APPROVAL FROM THE COGCC PRIOR TO COMMENCING CASING-PERFORATING AND OTHER COMPLETION OPERATIONS.

(4) COMPLY WITH ALL DOE OFFICE OF LEGACY MANAGEMENT REQUESTS FOR SAMPLING AND ANALYSIS OF NATURAL GAS AND OTHER MATERIALS ASSOCIATED WITH DRILLING AND PRODUCTION.

(5) FLOWBACK TO TANKS ONLY. SUBMIT A SECONDARY AND TERTIARY CONTAINMENT PLAN VIA SUNDRY NOTICE FORM 4 FOR THE TANKS. SUBMIT VIA EMAIL TO RULISON.SUBMITTAL@STATE.CO.US. OBTAIN APPROVAL OF THE PLAN PRIOR TO FLOWBACK.

(6) SPUD NOTICE MUST IDENTIFY IF THE WELL IS LOCATED IN TIER I OR TIER II OF THE APPROVED RULISON SAMPLING AND ANALYSIS PLAN.

(7) OPERATOR SHALL PROVIDE COMPLETE WELL-SPECIFIC EMERGENCY CONTACT INFORMATION TO THE COGCC AREA ENGINEER IN THE SPUD NOTICE PRIOR TO SPUDDING THE WELL.

(8) PRODUCED WATER FROM THIS LOCATION MAY NOT BE TRANSPORTED TO OR RE-USED AT ANOTHER LOCATION WITHOUT SPECIFIC WRITTEN APPROVAL FROM COGCC AND ONLY AFTER ANALYSIS CONFIRMS COMPLIANCE WITH THE RULISON SAP.

(9) DRILL SOLIDS AND CUTTINGS FROM THIS LOCATION MAY NOT BE TRANSPORTED TO, DISPOSED OF, OR RE-USED AT ANOTHER LOCATION WITHOUT SPECIFIC WRITTEN APPROVAL FROM COGCC AND ONLY AFTER ANALYSIS CONFIRMS COMPLIANCE WITH THE RULISON SAP.

(10) A CLOSED-LOOP MUD SYSTEM SHALL BE UTILIZED TO ENSURE CONTAINMENT OF ALL MATERIALS THAT HAVE BEEN IN CONTACT WITH DOWNHOLE STRATA AND FLUIDS. ALL CUTTINGS AND FRESH MAKE-UP WATER STORAGE PITS SHALL BE LINED TO ENSURE CONTAINMENT. CONTOUR FEATURES, FRENCH DRAINS, AND OTHER STORMWATER BMPS AS NECESSARY SHALL BE EMPLOYED TO ENSURE SITE INTEGRITY.

(11) NO INDIVIDUAL OPERATOR SHALL UTILIZE MORE THAN ONE RIG WITHIN ONE MILE OF THE PROJECT RULISON BLAST SITE AT ANY GIVEN TIME AND NO INDIVIDUAL OPERATOR SHALL UTILIZE MORE THAN TWO RIGS WITHIN A THREE MILE RADIUS OF THE SITE AT ANY GIVEN TIME. THE TOTAL NUMBER OF RIGS ALLOWED BY ALL OPERATORS WITHIN THREE MILES OF THE SITE SHALL BE LIMITED TO FIVE AT ANY GIVEN TIME.

(12) OPERATOR SHALL COMPLY WITH ALL PROVISIONS OF THE MOST RECENT COGCC-APPROVED REVISION OF THE RULISON SAMPLING AND ANALYSIS PLAN. IN ADDITION TO THE PRODUCED-WATER SAMPLING AND ANALYSIS OUTLINED IN SECTION 5.8 OF THE PLAN, THE OPERATOR SHALL ALSO OBTAIN AND ANALYZE PRODUCED-WATER SAMPLES ON WELLS DESCRIBED IN THE PLAN FOR CONSTITUENTS LISTED IN THE PLAN USING THE SPECIFIC METHOD WHERE APPLICABLE.

(13) 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.

(14) 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.

(15) 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 00 FEET DEEP.

Attachment Check List

Att Doc Num	Name
400176501	FORM 2 SUBMITTED
400206112	WELL LOCATION PLAT
400206113	APD APPROVED
400206114	APD APPROVED
400206116	LOCATION PICTURES
400206119	REFERENCE AREA PICTURES
400206120	CONST. LAYOUT DRAWINGS
400206121	H2S CONTINGENCY PLAN

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	LGD/Pub. comments waived. Final Comprehensive Review Status--Passed.	10/11/2011 9:16:37 AM
Permit	CHECKED COMMINGLE ZONES. CHANGED FIELD NAME TO PARACHUTE. READY TO APPROVE IN PERMITTING WHEN LGD/PUBLIC EXP. 10/9	9/29/2011 9:18:33 AM

Total: 2 comment(s)

BMP

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

Total: 7 comment(s)