

FORM
2

Rev
12/05

State of Colorado Oil and Gas Conservation Commission

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Document Number:

400235256

Date Received:

02/09/2012

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

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: Tania McNutt Phone: (303)228-4392 Fax: (303)228-4286

Email: tmcnutt@nobleenergyinc.com

7. Well Name: LONG Well Number: 20-12C (20F)

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

9. Proposed Total Measured Depth: 10402

WELL LOCATION INFORMATION

10. QtrQtr: SWNW Sec: 20 Twp: 7S Rng: 94W Meridian: 6

Latitude: 39.425750 Longitude: -107.915667

Footage at Surface: 2181 feet FNL 1074 feet FWL

11. Field Name: Rulison Field Number: 75400

12. Ground Elevation: 7908 13. County: GARFIELD

14. GPS Data:

Date of Measurement: 09/18/2008 PDOP Reading: 2.5 Instrument Operator's Name: Richard Bullen

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 _____
2106 FNL 694 FWL 2106 FNL 694 FWL
Sec: 20 Twp: 7S Rng: 94W Sec: 20 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: 1286 ft

18. Distance to nearest property line: 863 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 318 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	SWNW
Williams Fork	WMFK	139-73	40	SWNW

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):

Oil and Gas Lease on file at COGCC

25. Distance to Nearest Mineral Lease Line: 789 ft 26. Total Acres in Lease: 160

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
CONDUCTOR	20	16	Line pipe	0	120	15	120	0
SURF	12+1/4	8+5/8	24	0	1,500	575	1,500	0
1ST	7+7/8	4+1/2	11.6	0	10,402	730	10,402	

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

33. Comments The Production Casing Top of Cement will be 200 feet above Top of Gas. All conditions are the same as prior approved permit. The Pad has been built. This well is part of the RULISON 20F Pad. The Surface Hole Location of this well is located in Project Rulison 3-Mile Radius Tier II. DOE was notified 9/17/09. A closed loop pitless system will be used for this APD. This location does not require a variance from any of the rules listed in COGCC Rule 306.d (1). (A).(ii). This location is in a Sensitive Wildlife Habitat, however, a Wildlife Mitigation Plan was executed with the CDOW on May 24th, 2010, that specifically covers the pad for this well and it is valid for six years.

34. Location ID: 414880

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: Tania McNutt

Title: Regulatory Analyst Date: 2/9/2012 Email: tmcnutt@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: [Signature] Director of COGCC Date: 3/6/2012

Permit Number: _____ Expiration Date: 3/5/2014

API NUMBER
05 045 18924 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) 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) CEMENT ON PRODUCTION CASING MUST BE A MINIMUM OF 200' ABOVE THE TOP OF THE MESA VERDE FORMATION (OR 200' ABOVE THE OHIO CREEK FORMATION IF PRESENT). CEMENT TOP VERIFY BY CBL IS REQUIRED. THIS REQUIREMENT SHALL SUPERSEDE THE TOP OF CEMENT REQUIREMENTS IN THE NEW MAMM CREEK FIELD NOTICE TO OPERATORS.
- 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 INSPECTOR 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 OPERATORS SHALL ALSO OBTAIN AND ANALYZE PRODUCED WATER SAMPLES ON WELLS DESCRIBED IN THE PLAN FOR CONSTITUENTS LISTED IN THE PLAN USING THE SPECIFIED METHOD WHERE APPLICABLE.
- 13) THE PROPOSED 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 150 FEET DEEP.

Operator agrees to accommodate all future DOE sampling requests. Operator's letter of notification to DOE and DOE's approval of BHL in Tier II, Rulison, in well file.

Attachment Check List

Att Doc Num	Name
400235256	FORM 2 SUBMITTED
400238065	H2S CONTINGENCY PLAN
400238701	WELL LOCATION PLAT

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	SUA in well file. LGD passed; public comments waived. Final Comprehensive Review Status--passed.	3/1/2012 9:46:17 AM
Permit	Added well type as gas, multiple formations, and commingle as yes	2/14/2012 4:13:30 PM
LGD	Passed	2/9/2012 3:29:55 PM

Total: 3 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
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.
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.
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.
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.
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.
Wildlife	Bird protection practices in accordance with the Migratory Bird Act.

Total: 7 comment(s)