

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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Document Number:

1757832

Plugging Bond Surety

20030009

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 ☐

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: MARI CLARK Phone: (303)228-4413 Fax: (303)228-4286

Email: MCLARK@NOBLEENERGY.COM

7. Well Name: THUNDERHEAD USX AB Well Number: 25-99HZ

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

9. Proposed Total Measured Depth: 11792

WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 25 Twp: 7N Rng: 64W Meridian: 6

Latitude: 40.550905 Longitude: -104.505184

Footage at Surface: 244 FNL/FSL 587 FEL/FWL FWL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4786 13. County: WELD

14. GPS Data:

Date of Measurement: 08/20/2009 PDOP Reading: 2.4 Instrument Operator's Name: JOHN C. BARICKMAN

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

Footage at Top of Prod Zone: FNL/FSL FSL/FWL Bottom Hole: FNL/FSL FEL/FWL
781 FNL 1165 FWL 1349 FSL 664 FEL
Sec: 25 Twp: 7N Rng: 64W Sec: 25 Twp: 7N 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: 229 ft

18. Distance to nearest property line: 183 ft 19. Distance to nearest well permitted/completed in the same formation: 600 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.)
NIOBRARA	NBRR		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#: 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 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):
T7N-R64W SECTION 25: ALL

25. Distance to Nearest Mineral Lease Line: 664 ft 26. Total Acres in Lease: 640

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: _____

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	700	227	700	0
1ST	8+3/4	7	26	7,027	392	7,027	4,200
1ST LINER	6+1/8	4+1/2	11.6	11,792			

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

33. Comments NO CONDUCTOR CASING WILL BE USED. THIS WELL IS PART OF A PILOT PROGRAM.

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: mari clark

Title: REG ANALYST II Date: 7/21/2009 Email: mclark@NOBLEENERGYINC.

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: 10/13/2009

API NUMBER

05 123 30695 00

Permit Number: _____ Expiration Date: 10/12/2011

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 hr notice of spud to Ed Binkley at 970-506-9834 or e-mail at ed.binkley@state.co.us . 2) Set surface casing to 700' minimum, per Rule 317d, cement to surface. Setting surface casing less than the approved depth is a permit violation unless prior written approval is obtained from the COGCC. 3) If completed, provide cement coverage from TD to a minimum of 200' above Niobrara. Verify coverage with cement bond log. 4) If dry hole, 40 sks cement 50' above Niobrara top, 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below GL, weld on plate, 5 sks cement in rat hole 5 sks cement in mouse hole. Restore surface location.

1) Provide 24 hr notice of MIRU to Ed Binkley at 970-506-9834 or e-mail at ed.binkley@state.co.us. 2) If production casing is set, cement coverage shall be at a minimum from the first production casing shoe to 200' above Niobrara. Verify all placed cement with cement bond log. 3) If dry hole, set 40 sks cement in open hole 50' above Niobrara top, set 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below ground level, weld on plate, 5 sks cement in rat hole 5 sks cement in mouse hole. 4) 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
1757833	WELL LOCATION PLAT	LF@2106148 1757833
1757834	30 DAY NOTICE LETTER	LF@2106149 1757834
1757835	DEVIATED DRILLING PLAN	LF@2106150 1757835
1757836	EXCEPTION LOC REQUEST	LF@2106151 1757836
1759069	WELL LOCATION PLAT	LF@2139037 1759069
1759070	30 DAY NOTICE LETTER	LF@2139036 1759070
1759071	DEVIATED DRILLING PLAN	LF@2139035 1759071
1759072	EXCEPTION LOC REQUEST	LF@2139033 1759072
1759073	EXCEPTION LOC WAIVERS	LF@2139034 1759073
1759074	PROPOSED SPACING UNIT	LF@2139038 1759074
1759325	PROPOSED SPACING UNIT	LF@2146784 1759325
1940582	SURFACE CASING CHECK	LF@2142734 1940582
400011445	APD ORIG & 1 COPY	LF@2106147 1757832

Total Attach: 13 Files