

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

Refilling   
Sidetrack

Document Number:

400077399

Plugging Bond Surety

20030058

3. Name of Operator: EOG RESOURCES INC

4. COGCC Operator Number: 27742

5. Address: 600 17TH ST STE 1100N

City: DENVER State: CO Zip: 80202

6. Contact Name: Jennifer Yu Phone: (303)824-5576 Fax: (303)824-5577

Email: jennifer\_yu@eogresources.com

7. Well Name: Lion Creek Well Number: 4-16H

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

9. Proposed Total Measured Depth: 13284

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 16 Twp: 11N Rng: 64W Meridian: 6

Latitude: 40.914992 Longitude: -104.543400

Footage at Surface: 501 FNL/FSL FSL 501 FEL/FWL FEL

11. Field Name: Wildcat Field Number: 99999

12. Ground Elevation: 5439 13. County: WELD

14. GPS Data:

Date of Measurement: 05/09/2010 PDOP Reading: 1.6 Instrument Operator's Name: Uintah Engineering & Land Surveying

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

Footage at Top of Prod Zone: FNL/FSL 841 FSL 845 FEL 845 FEL/FWL 600 FNL 600 FNL 600 FEL/FWL 600 FWL 600 FWL 600

Sec: 16 Twp: 11N Rng: 64W Sec: 16 Twp: 11N 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: 664 ft

18. Distance to nearest property line: 501 ft 19. Distance to nearest well permitted/completed in the same formation: 5280 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 #: 8727-5

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 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):  
All of Section 16, T11N, R64W

25. Distance to Nearest Mineral Lease Line: 600 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: Back fill and cover

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
CONDUCTOR	20		42	60	50	60	0
SURF	13+1/2	9+5/8	36	1,640	855	1,640	0
1ST	8+3/4	7	23	7,987	845	7,987	0
1ST LINER	6	4+1/2	11.6	13,284	375	13,284	7,237

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

33. Comments \_\_\_\_\_

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: Jennifer Yu

Title: Lead Regulatory Assistant Date: 7/17/2010 Email: jennifer\_yu@eogresources.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: 8/20/2010

<b>API NUMBER</b>
05 123 32036 00

Permit Number: \_\_\_\_\_ Expiration Date: 8/19/2012

**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.

COGCC ENG COA - SME

- 1) Provide 24 hr notice of MIRU to Bo Brown at 970-330-6085 or email at bo.brown@state.co.us.
- 2) Set surface casing 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 the intermediate casing shoe to a minimum of 200' above Niobrara. Verify cement with a cement bond log.
- 4) If the production liner is cemented, verify cement with a cement bond log.
- 5) 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
400077399	FORM 2 SUBMITTED	LF@2509091 400077399
400077401	DRILLING PLAN	LF@2509092 400077401
400077402	DEVIATED DRILLING PLAN	LF@2509093 400077402
400077403	PLAT	LF@2509094 400077403
400077404	TOPO MAP	LF@2509095 400077404

Total Attach: 5 Files

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