

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 ☐

Refiling ☐
Sidetrack ☐

Document Number:

400095487

Plugging Bond Surety

20060159

3. Name of Operator: BLACK RAVEN ENERGY INC 4. COGCC Operator Number: 10203

5. Address: 1125 17TH ST STE 2300
City: DENVER State: CO Zip: 80202

6. Contact Name: Janice Aldstadt Phone: (303)308-1330 Fax: (303)308-1590
Email: jaldstadt@blackravenenergy.com

7. Well Name: Dirks Well Number: 844-1-11-L5

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

9. Proposed Total Measured Depth: 3000

WELL LOCATION INFORMATION

10. QtrQtr: Lot 5 Sec: 1 Twp: 8N Rng: 44W Meridian: 6
Latitude: 40.697730 Longitude: -102.220020

Footage at Surface: 2550 feet FNL/FSL FNL 380 feet FEL/FWL FWL

11. Field Name: Unnamed Field Number: 85251

12. Ground Elevation: 3730 13. County: PHILLIPS

14. GPS Data:

Date of Measurement: 03/25/2010 PDOP Reading: 2.1 Instrument Operator's Name: Neal McCormick

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 _____

Sec: _____ Twp: _____ Rng: _____ Sec: _____ Twp: _____ Rng: _____

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: 380 ft

18. Distance to nearest property line: 380 ft 19. Distance to nearest well permitted/completed in the same formation: 307 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			

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 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):
NW/4 and Lot 5, Section 1, T8N-R44W

25. Distance to Nearest Mineral Lease Line: 380 ft 26. Total Acres in Lease: 208

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: Evap & Burial

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/Line Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	9+7/8	7	17		450	180	450	0
1ST	6+1/4	4+1/2	10.5		3,000	80	3,000	1,600

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

33. Comments No conductor casing will be used. The perforated interval is estimated to be shallower than 2,500 feet.

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: Janice Aldstadt

Title: Landman Date: 9/29/2010 Email: jaldstadt@blackravenenergy.co

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: 10/28/2010

API NUMBER

05 095 06292 00

Permit Number: _____ Expiration Date: 10/27/2012

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.

1. Provide 24 hr notice of spud to Colby Horton at 970-467-2517 or colby.horton@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 TD to 200' above Niobrara. Verify coverage with cement bond log. 4. If well is a dry hole set the following plugs: a) 35 sks cement from 50' above Niobrara top up, b) 35 sks cement ½ out, ½ in surface casing c) 10 sks cement at top of surface casing, cut casing 4' below GL, weld on plate, 5 sks cement in rat hole and 5 sks cement in mouse hole. Restore surface location.

Attachment Check List

Att Doc Num	Name
400095487	APD APPROVED
400095874	LOCATION PICTURES
400095875	WELL LOCATION PLAT
400095879	TOPO MAP
400104523	FORM 2 SUBMITTED

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Perforations 2500 feet or deeper will require a waiver or a approved variance by director.	10/8/2010 5:32:54 AM
Permit	Changed Qtr/Qtr to Lot 5 with Opr-Janice's permission.	9/30/2010 3:00:05 PM

Total: 2 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)