

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

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):
Lots 1, 2, and 3-Sec. 6; SW/4-Sec. 7; S/2-Sec. 17; NW/4, SW/4-Sec. 18; NW/4-Sec. 19..T8N-R43W and NE/4-Sec. 24,T8N-R44W

25. Distance to Nearest Mineral Lease Line: 239 ft 26. Total Acres in Lease: 1276

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

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/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	12+1/4	8+5/8	24#	0	450	200	450	0
1ST	7+7/8	5+1/2	15.5 #	0	3,400	250	3,400	1,600

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

33. Comments No conductor casing will be used. This well to be used to inject Niobrara Formation produced water into the Lower Cretaceous sands (D-Sand, J-Sand, Dakota Sands) at a depth of approximately 3,900 feet below the surface.

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: 3/28/2011 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: 5/12/2011

API NUMBER

05 095 06310 00

Permit Number: _____ Expiration Date: 5/11/2013

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.

COGCC ENG COA – DMO 1. Provide 24 hr notice of spud to Colby Horton at 970-467-2517 or e-mail at 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. Provide cement coverage from TD to 200' above Niobrara. Verify coverage with cement bond log. 4. Before stimulating well, capture water sample from D Sands, Dakota, and J Sands and analyze for total dissolved solids. Submit lab analysis to Denise Onyskiw at denise.onyskiw@state.co.us. 5. Injection is not authorized until approval of Forms 31 and 33.

Well cannot be completed in any of the formations listed as injection objectives.

Attachment Check List

Att Doc Num	Name
400142360	FORM 2 SUBMITTED
400144035	PLAT
400144036	TOPO MAP
400144037	OTHER
400148002	SURFACE AGRMT/SURETY

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Signed surface use agreement (22a.) has been submitted with UIC application.	5/10/2011 12:59:25 PM
Permit	Back to draft for answer to question 22a. sf	3/29/2011 9:41:51 AM

Total: 2 comment(s)

BMP

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

Total: 0 comment(s)