

FORM
2

Rev
08/13

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400474553

APPLICATION FOR PERMIT TO:

☐ Drill ☐ Deepen ☐ Re-enter ☒ **Recomplete and Operate**

Date Received:

08/29/2013

TYPE OF WELL OIL ☐ GAS ☐ COALBED ☐ OTHER Injection well

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: Dewey

Well Number: 3

Name of Operator: BLACK RAVEN ENERGY INC

COGCC Operator Number: 10203

Address: 1331 17TH STREET - #350

City: DENVER

State: CO

Zip: 80202

Contact Name: David Kunovic

Phone: (303)308-1330

Fax: (303)308-1590

Email: dkunovic@blackravenenergy.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20060159

WELL LOCATION INFORMATION

QtrQtr: SWNW Sec: 24 Twp: 1N Rng: 58W Meridian: 6

Latitude: 40.037926

Longitude: -103.826558

Footage at Surface: 2310 feet FNL/FSL FNL 990 feet FEL/FWL FWL

Field Name: ADENA

Field Number: 700

Ground Elevation: 4595

County: MORGAN

GPS Data:

Date of Measurement: 10/11/2011

PDOP Reading: 3.3

Instrument Operator's Name: Theresa McCollum

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:

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Surface Owner is: ☐ is the mineral owner beneath the location.

(check all that apply)

☐ is committed to an Oil and Gas Lease.

☐ has signed the Oil and Gas Lease.

☐ is the applicant.

The Mineral Owner beneath this Oil and Gas Location is: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Minerals beneath this Oil and Gas Location will be developed by this Well: Yes

The right to construct the Oil and Gas Location is granted by: Bond

Surface damage assurance if no agreement is in place: Blanket

Surface Surety ID: 20110164

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

E/2 Sec. 23; the SW/4, S/2NW/4 Sec. 24; the N/2NW/4 Sec. 25; the E/2, S/2NW/4, N/2SW/4, SW/4SW/4 Sec. 26, T1N-R58W, 6th PM

Total Acres in Described Lease: 1160 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 990 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2204 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 990 Feet
Above Ground Utility: 120 Feet
Railroad: 5280 Feet
Property Line: 990 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: ☐ Buffer Zone
☐ Exception Zone
☐ Urban Mitigation Area

- Buffer Zone – as described in Rule 604.a.(2), within 1,000' of a Building Unit
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 1843 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 1585 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

This proposed D sand recompletion is located inside a D Sand Water Flood Unit. The well is located 1585 ft. from the nearest unit boundary.

D Sand Unit: Sec 13: S2, Sec 14: S2SE4, Sec 23: NE4, N2SE4, Sec 24: NW4,N2SW4,E2

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
D SAND	DSND	26-60	1200	Sec 24:NW4,N2SW4,E2

DRILLING PROGRAM

Proposed Total Measured Depth: 5800 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 1843 Feet (Including plugged wells)

Will a closed-loop drilling system be used? No

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? No

BOP Equipment Type: ☐ Annular Preventor ☐ Double Ram ☐ Rotating Head ☒ None

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule N/A

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: _____ Drilling Fluids Disposal Methods: _____

Cuttings Disposal: _____ Cuttings Disposal Method: _____

Other Disposal Description: _____

This is a D sand recompletion in a well that is currently perfed in the D sand. The D sand production is shut-in. The well will be converted to a D sand water injection well. There will be no drilling waste (no drilling).

Beneficial reuse or land application plan submitted? _____

Reuse Facility ID: _____ or Document Number: _____

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	12	8+7/8	28	0	100	75	100	0
1ST	7+7/8	5+1/2	15.5	0	5794	275	5794	4000

☒ Conductor Casing is NOT planned

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- ☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- ☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- ☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- ☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318A.a. Exception Location (GWA Windows).
- ☐ Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

OTHER LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 318.c. Exception Location from Rule or Spacing Order Number _____
- ☐ Rule 603.a.(2) Exception Location (Property Line Setback).

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments

Nearest above ground utility is 120 ft. from the well head. The electric line provided power to the well when it was pumping. The power is not needed for injection purposes and will be disconnected when the work-over rig (90 ft. high) is on location. Distance to the nearest property line is 990 ft. The location is 2204 ft. from the nearest building (Black Raven equipment building). The well is currently a shut-in D sand producer in the Adena field. Plan to test casing integrity and set an injection packer approximately 90 feet above the current D sand perfs and inject water for enhanced recovery purposes. A form 33 (injection well permit application) will be filed with this form 2. A form 2A is not required for this recompletion because no pit will be constructed and there will be no surface disturbance beyond the originally disturbed area. No conductor casing was set when this well was drilled; the casing consists of surface casing and a production string.

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: 313677

Is this application being submitted with an Oil and Gas Location Assessment application? No

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: David Kunovic

Title: VP Exploration Date: 8/29/2013 Email: dkunovic@blackravenenergy.c

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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:  Director of COGCC Date: 11/10/2013

Expiration Date: 11/09/2015

API NUMBER

05 087 05218 00

Conditions Of Approval

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.

COA Type**Description**

	1) Provide remedial cement from 250' to at least 50' above surface casing shoe (due to WW Permit #0041777, 160' deep, located SWSW13-1N-58W). 2) Injection is not authorized until approval of forms 31 and 33. 3) Prior approval of form 4 is required for step rate and injectivity tests.
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Best Management Practices**No BMP/COA Type****Description**

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Data retrieval failed for the subreport 'IntPolicy_MTO' located at: \\DorDonSterling\FarmReports\policy_mto.rdl. Please

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400474553	FORM 2 SUBMITTED
400474619	WELLBORE DIAGRAM
400474646	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed.	10/30/2013 10:31:09 AM
Permit	Oper. is unit operator and has blanket SUA for unit. Using surface bond for recompletion work.	10/23/2013 8:36:25 AM
Permit	Form 4 approved 9/17/2013. Form 33 submitted 9/3/2013. Changed type of well to injection well.	9/17/2013 10:36:58 AM
Permit	Passed completeness.	8/30/2013 1:18:35 PM

Total: 4 comment(s)