

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:

400527151

#### APPLICATION FOR PERMIT TO:

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

Date Received:

12/18/2013

TYPE OF WELL OIL ☐ GAS ☐ COALBED ☐ OTHER Injection

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: State of Colorado

Well Number: A-1

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@enerjexresources.com

#### RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20060159

#### WELL LOCATION INFORMATION

QtrQtr: NESE Sec: 36 Twp: 2N Rng: 58W Meridian: 6

Latitude: 40.091804

Longitude: -103.812509

Footage at Surface: 1650 feet FNL/FSL FSL 330 feet FEL/FWL FEL

Field Name: ADENA

Field Number: 700

Ground Elevation: 4497

County: MORGAN

GPS Data:

Date of Measurement: 11/06/2011

PDOP Reading: 4.4

Instrument Operator's Name: Theresa McCollom

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: oil and gas lease

Surface damage assurance if no agreement is in place: \_\_\_\_\_

Surface Surety ID: \_\_\_\_\_

## 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.)

SW/4NE/4, NE/4SE/4, SW/4SE/4 of Section 36, T2N-R58W

Total Acres in Described Lease: 120 Described Mineral Lease is: ☐ Fee ☒ State ☐ Federal ☐ Indian

Federal or State Lease # S/70-7984

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 330 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5280 Feet

Building Unit: 5280 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 330 Feet

Above Ground Utility: 310 Feet

Railroad: 5280 Feet

Property Line: 330 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: 1319 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 2310 Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

This well is currently a shut in J Sand oil well in the Adena J sand Unit. Black Raven plans to convert this well to a J Sand injection well from the existing perfs. Adena J Sand Unit includes several sections in T1N-2N, R57-58W.

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
J SAND	JSND	26-1		

## DRILLING PROGRAM

Proposed Total Measured Depth: 5685 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 1319 Feet (Including plugged wells)

Will a closed-loop drilling system be used? No

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S 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 recompletion. 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	13+1/4	10+3/4	33.75	0	190	75	190	0
1ST	7+7/8	5+1/2	15.5	0	5686	250	5686	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 310 ft. from the site. Nearest property line is 330 ft. Nearest building is over 1 mile from site. This well is currently a shut-in J Sand producer in the Adena J Sand Unit. Plan to convert the well to a J Sand injection well for pressure maintenance and water flood sweep purposes. Plan to MIT the casing to confirm casing integrity, set an injection packer and inject into the current J Sand perforations. 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 the well was drilled; the casing consists of surface casing and a production string. A Form 33 (injection Permit) is being submitted concurrently with this application. Adena J Sand Unit includes several sections in T1N-2N, R57-58W.

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 313778

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: 12/18/2013 Email: dkunovic@enerjexresources.co

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: 1/26/2014

Expiration Date: 01/25/2016

**API NUMBER**

05 087 05512 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) Injection is not authorized until approval of form 33.
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**Best Management Practices**

**No BMP/COA Type** **Description**

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**Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400527151	FORM 2 SUBMITTED
400528249	WELLBORE DIAGRAM
400528250	WELLBORE DIAGRAM
400529546	OTHER

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed.	1/9/2014 10:09:08 AM
Permit	Form 33, doc #2431866, submitted 12/23/2013.	1/7/2014 9:41:20 AM
Permit	SLB confirmed bond in order per TK. Deleted surface bond.	12/30/2013 8:36:24 AM
Permit	Passed completeness.	12/19/2013 10:53:44 AM
Permit	Returned to draft: P&A Bond Surety ID in Well Information tab is incorrect; should be 20060159.	12/19/2013 8:20:28 AM

Total: 5 comment(s)