

FORM  
2A

Rev  
04/01

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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Document Number:  
400065043

Oil and Gas Location Assessment

New Location       Amend Existing Location      Location#: 314114

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a stand alone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this Assessment will allow for the construction of the below specified location; however, it does not supersede any land use rules applied by the local land use authority. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:  
**314114**  
Expiration Date:  
**06/29/2013**

This location assessment is included as part of a permit application.

1. CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
- This location is in a sensitive wildlife habitat area.
- This location is in a wildlife restricted surface occupancy area.
- This location includes a Rule 306.d.(1)A.ii. variance request.

2. Operator

Operator Number: 10203  
Name: BLACK RAVEN ENERGY INC  
Address: 1125 17TH ST STE 2300  
City: DENVER State: CO Zip: 80202

3. Contact Information

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

4. Location Identification:

Name: STR Number: 844-1-31  
County: PHILLIPS  
Quarter: NWNE Section: 1 Township: 8N Range: 44W Meridian: 6 Ground Elevation: 3722  
Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.  
Footage at surface: 990 feet, from North or South section line: FNL and 1330 feet, from East or West section line: FEL  
Latitude: 40.702070 Longitude: -102.206860 PDOP Reading: 1.7 Date of Measurement: 07/27/2007  
Instrument Operator's Name: NEAL MCCORMICK

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

|   |  |   |   |  |
|---|--|---|---|--|
| Special Purpose Pits: <input type="checkbox"/>          | Drilling Pits: <input type="checkbox"/> <u>1</u> | Wells: <input type="checkbox"/> <u>1</u>      | Production Pits: <input type="checkbox"/>         | Dehydrator Units: <input type="checkbox"/> |
| Condensate Tanks: <input type="checkbox"/>              | Water Tanks: <input type="checkbox"/>            | Separators: <input type="checkbox"/> <u>1</u> | Electric Motors: <input type="checkbox"/>         | Multi-Well Pits: <input type="checkbox"/>  |
| Gas or Diesel Motors: <input type="checkbox"/> <u>1</u> | Cavity Pumps: <input type="checkbox"/>           | LACT Unit: <input type="checkbox"/>           | Pump Jacks: <input type="checkbox"/> <u>1</u>     | Pigging Station: <input type="checkbox"/>  |
| Electric Generators: <input type="checkbox"/>           | Gas Pipeline: <input type="checkbox"/> <u>1</u>  | Oil Pipeline: <input type="checkbox"/>        | Water Pipeline: <input type="checkbox"/> <u>1</u> | Flare: <input type="checkbox"/>            |
| Gas Compressors: <input type="checkbox"/>               | VOC Combustor: <input type="checkbox"/>          | Oil Tanks: <input type="checkbox"/>           | Fuel Tanks: <input type="checkbox"/>              |  |

Other: METER RUN HOUSE

6. Construction:

Date planned to commence construction: 07/01/2010 Size of disturbed area during construction in acres: 3.00  
 Estimated date that interim reclamation will begin: 08/02/2010 Size of location after interim reclamation in acres: 1.00  
 Estimated post-construction ground elevation: 3722 Will a closed loop system be used for drilling fluids: Yes   
 Will salt sections be encountered during drilling: Yes  No  Is H2S anticipated? Yes  No   
 Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes  No   
 Mud disposal: Offsite  Onsite  Method: Land Farming  Land Spreading  Disposal Facility   
 Other: EVAP & BURIAL

7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Address: \_\_\_\_\_ Email: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 05/17/2010  
 Surface Owner:  Fee  State  Federal  Indian  
 Mineral Owner:  Fee  State  Federal  Indian  
 The surface owner is:  the mineral owner  committed to an oil and gas lease  
 is the executer of the oil and gas lease  the applicant  
 The right to construct the location is granted by:  oil and gas lease  Surface Use Agreement  Right of Way  
 applicant is owner  
 Surface damage assurance if no agreement is in place:  \$2000  \$5000  Blanket Surety ID \_\_\_\_\_

8. Reclamation Financial Assurance:

Well Surety ID: 20060159  Gas Facility Surety ID: \_\_\_\_\_  Waste Mgnt. Surety ID: \_\_\_\_\_

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes  No   
 Distance, in feet, to nearest building: 6283, public road: 990, above ground utilit: 990  
 , railroad: 13516, property line: 375

10. Current Land Use (Check all that apply):

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP  
 Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_  
 Subdivided:  Industrial  Commercial  Residential

11. Future Land Use (Check all that apply):

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP  
 Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_  
 Subdivided:  Industrial  Commercial  Residential

12. Soils:

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: Rago and Kuma loams

NRCS Map Unit Name: \_\_\_\_\_

NRCS Map Unit Name: \_\_\_\_\_

### 13. Plant Community:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes  No

Plant species from:  NRCS or,  field observation Date of observation: \_\_\_\_\_

List individual species: \_\_\_\_\_

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestern, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): \_\_\_\_\_

### 14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area:  No  Yes Was a Rule 901.e. Sensitive Areas Determination performed:  No  Yes

Distance (in feet) to nearest surface water: 1907, water well: 6085, depth to ground water: 172

Is the location in a riparian area:  No  Yes Was an Army Corps of Engineers Section 404 permit filed  No  Yes

Is the location within a Rule 317B Surface Water Suppl Area buffer zone:

No  0-300 ft. zone  301-500 ft. zone  501-2640 ft. zone

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified:  No  Yes

### 15. Comments:

Railroad is 2.56 +/- miles away from site. There are no visible improvements within 400 feet of site. Nearest water well 1.15 +/- miles from site (RECEIPT: 9054192; PERMIT: 146748; USE: DOMESTIC STOCK). There is an ephemeral stream located 1,907 +/- feet southwest of location. The location is in a sensitive area due to being within the Northern High Plains Designated Basin. No COAs are needed for this location. A Pump Jack may be necessary to place on facility in the future to help with gas production. It will require either one gas or one electric motor to run the pumping jack unit which will be determined at the time of installation. Per Janice Aldstadt, checked surface owner is committed to O&G lease and checked surface owner is executer of O&G lease. 6-28-10 PVG ;

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

Signed: \_\_\_\_\_ Date: 05/26/2010 Email: jaldstadt@blackravenenergy.com

Print Name: Janice Aldstadt Title: Landman

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: 6/30/2010

**CONDITIONS OF APPROVAL, IF ANY:**

**All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.**

**Attachment Check List**

| Att Doc Num | Name               | Doc Description      |
|-------------|--------------------|----------------------|
| 400065043   | FORM 2A SUBMITTED  | LF@2482804 400065043 |
| 400065099   | OTHER              | LF@2482805 400065099 |
| 400065100   | HYDROLOGY MAP      | LF@2482806 400065100 |
| 400065101   | LOCATION DRAWING   | LF@2482807 400065101 |
| 400065103   | LOCATION PICTURES  | LF@2482808 400065103 |
| 400065106   | NRCS MAP UNIT DESC | LF@2482809 400065106 |
| 400065108   | ACCESS ROAD MAP    | LF@2482810 400065108 |
| 400065109   | WELL LOCATION PLAT | LF@2482811 400065109 |

Total Attach: 8 Files