

**FORM  
2A**Rev  
04/01State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

400102253

**Oil and Gas Location Assessment**☐ New Location ☒ Amend Existing Location Location#: 335838

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:

**335838**

Expiration Date:

**11/12/2013**☒ 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: 10091

Name: BERRY PETROLEUM COMPANY

Address: 1999 BROADWAY STE 3700

City: DENVER State: CO Zip: 80202

**3. Contact Information**

Name: Kallasandra Moran

Phone: (303) 999-4225

Fax: (303) 999-4325

email: kmoran@bry-consultant.com

**4. Location Identification:**

Name: Long Ridge Number: O16 595

County: GARFIELD

QuarterQuarter: SWSE Section: 16 Township: 5S Range: 95W Meridian: 6 Ground Elevation: 8304

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: 1329 feet, from North or South section line: FSL and 2272 feet, from East or West section line: FEL

Latitude: 39.610202 Longitude: -108.058023 PDOP Reading: 2.2 Date of Measurement: 09/14/2010

Instrument Operator's Name: Ivan Martin / Construction Surveys, Inc.

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

|  |   |  |   |  |
|--|---|--|---|--|
| Special Purpose Pits: <input type="text" value="0"/> | Drilling Pits: <input type="text" value="0"/> | Wells: <input type="text" value="8"/>        | Production Pits: <input type="text" value="0"/> | Dehydrator Units: <input type="text" value="2"/> |
| Condensate Tanks: <input type="text" value="5"/>     | Water Tanks: <input type="text" value="1"/>   | Separators: <input type="text" value="1"/>   | Electric Motors: <input type="text" value="0"/> | Multi-Well Pits: <input type="text" value="0"/>  |
| Gas or Diesel Motors: <input type="text" value="0"/> | Cavity Pumps: <input type="text" value="0"/>  | LACT Unit: <input type="text" value="0"/>    | Pump Jacks: <input type="text" value="0"/>      | Pigging Station: <input type="text" value="0"/>  |
| Electric Generators: <input type="text" value="0"/>  | Gas Pipeline: <input type="text" value="1"/>  | Oil Pipeline: <input type="text" value="0"/> | Water Pipeline: <input type="text" value="1"/>  | Flare: <input type="text" value="0"/>            |
| Gas Compressors: <input type="text" value="0"/>      | VOC Combustor: <input type="text" value="0"/> | Oil Tanks: <input type="text" value="0"/>    | Fuel Tanks: <input type="text" value="0"/>      |  |

Other: Separators used: 2 quad dehydrators, 1 separator. Drilling rig, temporary office and temporary housing on location for approximately 10 days per well.

## 6. Construction:

Date planned to commence construction: 03/05/2011 Size of disturbed area during construction in acres: 4.46  
Estimated date that interim reclamation will begin: 03/09/2012 Size of location after interim reclamation in acres: 1.34  
Estimated post-construction ground elevation: 8304 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: Total Closed Loop System

## 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 10/20/2010  
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: 20040106 ☐ Gas Facility Surety ID: 20040107 ☐ 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: 16560, public road: 18633, above ground utilit: 16680  
, railroad: 50580, property line: 1932

## 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 be 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: 53 - Parachute-Rhone Loams - 5 to 30 percenet slopes

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: 09/14/2010

List individual species: See attached NRCS Rangeland Plant Productivity & Composition data

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: 1189, water well: 11950, depth to ground water: 470

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:

The reference well used for distances is the 16B. The closest water well is Un-Named Mobil Minning Co. well (Permit # 133425 / Receipt # 0232223M) I certify that there have been no changes on land use, lease description. Pad has been constructed. Wells have not been drilled. Conductors have been set. No rig on site. The APD will NOT require expansion / additional surface disturbance of pad. The location does not require a variance from any of the rules listed in Rule 306.d. (1). (A). (ii). The location is not in a restricted surface occupancy area. The location is not in a sensitive wildlife habitat area.

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

Signed: \_\_\_\_\_ Date: 10/21/2010 Email: kmoran@bry-consultant.com

Print Name: Kallasandra M. Moran Title: Permit Agent

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

*David S. Neslin*

COGCC Approved: \_\_\_\_\_

Director of COGCC

Date: 11/13/2010

**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.**

Notice to Operators (NTO) Drilling Wells on the Roan Plateau in Garfield County: Comply with all provisions of the June 12, 2008 Notice to Operators (NTO) Drilling Wells Within  $\frac{3}{4}$  Mile of the Rim of the Roan Plateau in Garfield County – Pit Design, Construction, and Monitoring Requirements. At a minimum, the following condition of approval (COA) will apply: All pits must be lined.

The location is in an area of high run off/run-on potential; therefore the pad shall be constructed to prevent any stormwater run-on and /or stormwater runoff.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., BMPs associated with stormwater management) sufficiently protective of the nearby surface water. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.

Any pit constructed to hold fluids (reserve pit, production pit; except for flare pit) must be lined.

The nearby hillside must be monitored for any day-lighting of drilling fluids throughout the drilling of the surface casing interval.

No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

### Attachment Check List

| Att Doc Num | Name                    | Doc Description      |
|-------------|-------------------------|----------------------|
| 2033471     | CORRESPONDENCE          | LF@2609011 2033471   |
| 400102253   | FORM 2A SUBMITTED       | LF@2606185 400102253 |
| 400102365   | ACCESS ROAD MAP         | LF@2606186 400102365 |
| 400102366   | CONST. LAYOUT DRAWINGS  | LF@2606187 400102366 |
| 400102367   | HYDROLOGY MAP           | LF@2606188 400102367 |
| 400102368   | LOCATION DRAWING        | LF@2606189 400102368 |
| 400102369   | MULTI-WELL PLAN         | LF@2606190 400102369 |
| 400102370   | REFERENCE AREA MAP      | LF@2606191 400102370 |
| 400102371   | LOCATION PICTURES       | LF@2606192 400102371 |
| 400102372   | REFERENCE AREA PICTURES | LF@2606193 400102372 |
| 400102374   | NRCS MAP UNIT DESC      | LF@2606194 400102374 |
| 400102375   | OTHER                   | LF@2606195 400102375 |
| 400102376   | 30 DAY NOTICE LETTER    | LF@2606196 400102376 |
| 400102377   | OTHER                   | LF@2606197 400102377 |
| 400102378   | MINERAL LEASE MAP       | LF@2606199 400102378 |

Total Attach: 15 Files

### General Comments

| <u>User Group</u> | <u>Comment</u>   | <u>Comment Date</u>      |
|-------------------|--|--------------------------|
| OGLA              | Initiated/Completed OGLA Form 2A review on 10-21-10 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, monitoring of hillside, lined pits/closed loop, all pits lined, no pit in fill, cuttings low moisture COAs and Roan Rim NTO from operator on 10-21-10; received clarifications and acknowledgement of COAs from operator on 10-21-10; no CDOW; passed OGLA Form 2A review on 11-11-10 by Dave Kubeczko; fluid containment, spill/release BMPs, monitoring of hillside, lined pits/closed loop, all pits lined, no pit in fill, cuttings low moisture COAs and Roan Rim NTO. | 10/21/2010<br>3:30:55 PM |

Total: 1 comment(s)

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