

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



DE ET OE ES

Document Number:  
400095952

Oil and Gas Location Assessment

New Location  Amend Existing Location Location#: 335835

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:  
**335835**  
Expiration Date:

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 Pad Number: N15 595  
County: GARFIELD  
Quarter: SESW Section: 15 Township: 5S Range: 95W Meridian: 6 Ground Elevation: 8377

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: 861 feet, from North or South section line: FSL and 1972 feet, from East or West section line: FWL

Latitude: 39.608938 Longitude: -108.042960 PDOP Reading: 2.4 Date of Measurement: 06/22/2010

Instrument Operator's Name: Ivan Martin/Construction Surveys

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

Special Purpose Pits:  Drilling Pits:  Wells:  Production Pits:  Dehydrator Units:   
Condensate Tanks:  Water Tanks:  Separators:  Electric Motors:  Multi-Well Pits:   
Gas or Diesel Motors:  Cavity Pumps:  LACT Unit:  Pump Jacks:  Pigging Station:   
Electric Generators:  Gas Pipeline:  Oil Pipeline:  Water Pipeline:  Flare:   
Gas Compressors:  VOC Combustor:  Oil Tanks:  Fuel Tanks:

Other: Separators proposed: 2 quads, 1 single. Drilling rig, temporary office and temporary housing on location for approximately 10 days per well.

6. Construction:

Date planned to commence construction: 11/01/2010 Size of disturbed area during construction in acres: 5.09  
Estimated date that interim reclamation will begin: 12/15/2011 Size of location after interim reclamation in acres: 1.19  
Estimated post-construction ground elevation: 8377 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: Encana Oil & Gas USA, Inc Phone: 303-623-2300  
Address: 370 17th Street Fax: 303-623-2400  
Address: Suite 1700 Email: \_\_\_\_\_  
City: Denver State: CO Zip: 80202-5632 Date of Rule 306 surface owner consultation: 08/18/2010  
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: 20040105  Gas Facility Surety ID: 20040107  Waste Mgmt. Surety ID: \_\_\_\_\_

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes  No   
Distance, in feet, to nearest building: 19727, public road: 21766, above ground utilit: 19773  
, railroad: 49746, property line: 3101

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 percent 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: 06/22/2010  
List individual species: See attached Rangeland Productivity and Plant Composition

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: 1160, water well: 9305, 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:

This location's Form 2A is being re-filed due to adding 1 additional well to the pad. Water Resources - The closest water well is an un-named well (Permit# 133425/Receipt#0232223M). This pad has been constructed. Conductors have not been set. Wells have not been drilled. No rig is on site. This location will not require expansion/additional surface disturbance in order to add the additional well to the pad. The location does not require a variance from any of the rules listed in Rule 306.d(1).(A).(ii). This location is not in a restricted occupancy area. This location is not in a sensitive wildlife habitat area. The production casing top of cement will be 200' above top of gas. Berry Petroleum Company will be using a total closed loop system (see attached description). I certify that there have been no changes to land use, lease description.

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Email: k Moran@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.

COGCC Approved: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

**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
400095958	NRCS MAP UNIT DESC	Long Ridge N15-595 - Map Unit Description.pdf
400095959	OTHER	Long Ridge N15-595 - Rangeland Productivity and Plant Comp.pdf
400095960	LOCATION PICTURES	LONG RIDGE N15-595 Pad Photos.pdf
400095961	OTHER	Long Ridge N15-595 - Water Well Data.pdf
400095962	REFERENCE AREA PICTURES	LONG RIDGE N15-595 Ref Area Photos.pdf
400095963	ACCESS ROAD MAP	N15 Access Road Map.pdf
400095964	CONST. LAYOUT DRAWINGS	N15 Construction Layout Drawing 1-5.pdf
400095965	HYDROLOGY MAP	N15 Hydrology Map.pdf
400095966	LOCATION DRAWING	N15 Location Drawing.pdf
400095968	MULTI-WELL PLAN	N15 Multi-Well Plan.pdf
400095969	REFERENCE AREA MAP	N15 Reference Area Map.pdf
400095970	OTHER	Diesel Use and Cuttings Procedure.PDF

Total Attach: 12 Files

## BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>The following list of Best Management Practices (BMP's) that will be implemented by Berry Petroleum Company during the pad construction, well drilling, well completion, natural gas production and reclamation phases of activity on the Long Ridge N15 595 well Pad.</p> <p>A total of 9 wells will be directionally drilled from the N15 well pad. Directional drilling has enabled Berry Petroleum Company to reduce the number of well pads required for gas recovery and will minimize surface damage.</p> <p>The N15 well pad will be constructed adjacent to an existing road. This eliminates the need to construct an additional road for access and avoids additional surface disturbance.</p> <p>In general, Berry Petroleum Company will comply with all applicable federal, state and local statues, rules, regulations and ordinances, including those of OSHA, the COGCC and the CDPHE. Relating to safety and the environment.</p> <p>During construction of the well pad, topsoil will be isolated from other soils and placed and stacked per COGCC requirements. All cuts, fill slopes, pits and topsoil piles will be stabilized and revegetated immediately following construction.</p> <p>The pad will be constructed in compliance with CDPHE Stormwater Discharge regulations.</p> <ul style="list-style-type: none"><li>• The reserve/completion pit will be fenced/flagged and/or netted to prevent entry of wildlife (including birds) and livestock.</li><li>• Bear proof dumpsters/trash cans will be used on the location for solid/food waste disposal.</li><li>• Noxious weeds will be controlled.</li><li>• Temporary housing for the drill rig crews will meet all Garfield County regulations. The housing quarters will receive 24/7 supervision by Berry Petroleum Company.</li><li>• Production tanks shall be placed on a non-permeable liner and surrounded by a metal containment wall at least 3 feet in height.</li></ul>

Total: 1 comment(s)