

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:

400012163

Oil and Gas Location Assessment

☒ New Location ☐ Amend Existing Location Location#: _____

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:

415531

Expiration Date:

02/01/2013
☒ 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: JANNI KEIDEL

Phone: (303) 999-4225

Fax: (303) 999-4325

email: jek@bry.com

4. Location Identification:

Name: Latham I02 697 Number: 2-6D

County: GARFIELD

QuarterQuarter: NESE Section: 2 Township: 6S Range: 97W Meridian: 6 Ground Elevation: 8360

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: 1968 feet, from North or South section line: FSL and 1273 feet, from East or West section line: FEL

Latitude: 39.550061 Longitude: -108.182545 PDOP Reading: 3.2 Date of Measurement: 10/13/2009

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

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text" value="1"/>	Wells: <input type="text" value="9"/>	Production Pits: <input type="text" value="1"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="3"/>	Electric Motors: <input type="text" value="3"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="6"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text" value="3"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="1"/>	Fuel Tanks: <input type="text" value="1"/>	

Other: DRILLING RIG TEMPORARY ON LOCATION FOR 10 DAYS PER WELL. SEPARATORS USED WILL BE: 2 QUADS, 1 DOUBLE. TEMP OFFICE HOUSING

6. Construction:

Date planned to commence construction: 12/01/2009 Size of disturbed area during construction in acres: 4.67
Estimated date that interim reclamation will begin: 11/01/2010 Size of location after interim reclamation in acres: 3.80
Estimated post-construction ground elevation: 8345 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: _____

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 11/06/2009
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 20040106

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: 1975, public road: 15840, above ground utilit: 15840
, railroad: 36960, property line: 614

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: #56 PARACHUTE-IRIGUL-RHONE ASSOCIATION, 25 TO 50 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: 10/13/2009

List individual species: SAGE BRUSH, OAK & BUCK BRUSH, ASPEN TREES

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: 522, water well: 12355, depth to ground water: 54

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 Supply 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 FOLLOWING IS A LIST OF BEST MANAGEMENT PRACTICES THAT WILL BE IMPLEMENTED BY BERRY DURING THE PAD CONSTRUCTION, WELL DRILLING, WELL COMPLETION, NATURAL GAS PRODUCTION, AND RECLAMATION PHASES OF ACTIVITY ON THE LATHAM I02 697 WELL PAD LOCATION. A TOTAL OF NINE WELLS WILL BE DIRECTIONALLY DRILLED FROM THE I02 697 WELL PAD. DIRECTIONAL DRILLING HAS ENABLED BERRY TO REDUCE THE NUMBER OF WELL PADS REQUIRED FOR GAS RECOVERY AND WILL MINIMIZE SURFACE DISTURBANCE. IN GENERAL, BERRY WILL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, RULES, REGULATIONS AND ORDINANCES, INCLUDING, THOSE OF OSHA, THE COGCC AND CDPHE RELATING TO SAFETY AND THE ENVIRONMENT. DURING CONSTRUCTION OF THE WELL PAD, TOPSOIL WILL BE ISOLATED FROM OTHER SOILS AND PLACED AND STACKED PER COGCC REQUIREMENTS. ALL CUTS, FILL SLOPES, PIT AND TOPSOIL PILES AND SOIL PILES WILL BE STABILIZED AND REVEGETATED IMMEDIATELY FOLLOWING CONSTRUCTION. THE PADS WILL BE CONSTRUCTED IN COMPLIANCE WITH CDPHE STORM WATER DISCHARGE REGULATIONS. THE RESERVE/COMPLETION PIT WILL BE FENCED/FLAGGED AND/OR NETTED TO PREVENT ENTRY OF WILDLIFE (INCLUDING BIRDS) AND LIVESTOCK. BEAR PROOF DUMPSTERS OR TRASH CAGES WILL BE USED ON THE LOCATION FOR SOLID/FOOD WASTE STORAGE. NOXIOUS WEEDS WILL BE CONTROLLED. TEMPORARY HOUSING FOR THE DRILL RIG CREWS WILL MEET ALL GARFIELD COUNTY REGULATIONS. THE HOUSING QUARTERS WILL RECEIVE 24/7 SUPERVISION BY BERRY. PRODUCTION TANKS SHALL BE PLACED ON A NON PERMEABLE LINER.

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

Signed: _____ Date: 12/15/2009 Email: jek@bry.com

Print Name: JANNI KEIDEL Title: PERMITTING 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: 2/2/2010

Operator will set and post speed limits below 20 mph and caution signs on the access road, where permitted by the surface owner.

Operator will close and immediately reclaim all roads that are redundant, not used regularly, or have been abandoned to the maximum extent possible to minimize disturbance and habitat fragmentation, if approved by the surface owner.

Operator will mow or brush hog vegetation, leaving root structure intact, instead of scraping the surface if allowed by the surface owner, within gathering lines.

Operator will reclaim sage grouse habitat with native shrubs, grasses, and forbs using and approved CP-4D seed mix. It is expected that this seed mix will also benefit the local elk population.

Operator will use a wildlife appropriate fence comparable to the Montana Fish, Wildlife, and Parks Guide, that will feature an 8' tall mesh fence flush with ground level and netting to prevent entry of all wildlife species.

The Operator will design wastewater pits to minimize retention of stagnant water. While water that could support mosquito breeding is present, the pit will be treated with mosquito killing bacteria (bti).

The access road will be gated and manned with a security guard at the bottom of the Garden Gulch Access Road. The proposed well pad access road is closed to the public.

The Operator will use early and effective reclamation techniques, including an aggressive interim reclamation program, to return habitat to use by greater sage grouse as quickly as possible.

The Operator will avoid revegetation with aggressive non-native grasses not conducive to sage grouse habitat reclamation.

Attachment Check List

Att Doc Num	Name	Doc Description
2032750	CORRESPONDENCE	LF@2212698 2032750
2032751	REFERENCE AREA MAP	LF@2212697 2032751
2032753	PROPOSED BMPs	LF@2212871 2032753
2032754	CORRESPONDENCE	LF@2212901 2032754
2032791	CORRESPONDENCE	LF@2220742 2032791
400014348	LOCATION PICTURES	LF@2201840 400014348
400014349	REFERENCE AREA PICTURES	LF@2201841 400014349
400014350	LOCATION DRAWING	LF@2201842 400014350
400014351	ACCESS ROAD MAP	LF@2201843 400014351
400014352	CONST. LAYOUT DRAWINGS	LF@2201844 400014352
400014355	NRCS MAP UNIT DESC	LF@2201845 400014355
400014356	CONST. LAYOUT DRAWINGS	LF@2201846 400014356
400014357	MULTI-WELL PLAN	LF@2201847 400014357
400014493	PROPOSED BMPs	LF@2201848 400014493
400014553	HYDROLOGY MAP A, TOPO	LF@2201849 400014553
400014554	HYDROLOGY MAP B, AERIAL	LF@2201850 400014554
400014565	EQUIPMENT LIST	LF@2201851 400014565
400022484	FORM 2A SUBMITTED	LF@2201852 400022484

Total Attach: 18 Files