

**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:

400030038

**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:

**416197**

Expiration Date:

**03/18/2013**☒ 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: 10071

Name: BARRETT CORPORATION\* BILL

Address: 1099 18TH ST STE 2300

City: DENVER State: CO Zip: 80202

**3. Contact Information**

Name: Matt Barber

Phone: (303) 312-8168

Fax: (303) 291-0420

email: mbarber@billbarrettcorp.com

**4. Location Identification:**

Name: Werner Number: 44C-23-692

County: GARFIELD

QuarterQuarter: SWSE Section: 23 Township: 6S Range: 92W Meridian: 6 Ground Elevation: 5947

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: 825 feet, from North or South section line: FSL and 1526 feet, from East or West section line: FEL

Latitude: 39.507683 Longitude: -107.630219 PDOP Reading: 6.0 Date of Measurement: 10/08/2009

**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="18"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="7"/>	Water Tanks: <input type="text" value="5"/>	Separators: <input type="text" value="18"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text" value="1"/>
Gas or Diesel Motors: <input type="text"/>	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"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="1"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="2"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: Frac Tanks - 30 (500bbls) temporary tanks

## 6. Construction:

Date planned to commence construction: 06/06/2010 Size of disturbed area during construction in acres: 4.04  
Estimated date that interim reclamation will begin: 07/15/2011 Size of location after interim reclamation in acres: 0.95  
Estimated post-construction ground elevation: 5951 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: Bill Barrett Corporation Phone: (303) 293-9100  
Address: 1099 18th Street, Suite 2300 Fax: (303) 291-0420  
Address: \_\_\_\_\_ Email: mbarber@billbarrettcorp.com  
City: Denver State: CO Zip: 80202 Date of Rule 306 surface owner consultation: 01/21/2010  
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: 20040060 ☐ 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: 684, public road: 587, above ground utilit: 559  
, railroad: 20305, property line: 200

## 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: Map Unit Symbol 56 - Potts loam, 6 to 12 percent slopes

NRCS Map Unit Name: Map Unit Symbol 55 - Potts loam, 3 to 6 percent slopes

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: 10/16/2009

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: 904, water well: 160, depth to ground water: 35

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:

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

Signed: \_\_\_\_\_ Date: 01/22/2010 Email: mbarber@billbarrettcorp.com

Print Name: Matt Barber Title: Permit Analyst

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. Nash*

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

Director of COGCC

Date: 3/19/2010

**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.**

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

Location is in a sensitive area because of close proximity to a domestic water well; therefore, production pits must be lined. Location is in a sensitive area because of close proximity to a domestic water well and shallow groundwater; therefore, either a lined drilling pit or closed loop system must be implemented.

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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.

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.

Numerous individual well pad disturbances are avoided by directionally drilling multiple wells from individual pads. As per COGCC Rule 604.b(7), All stacks, vents, or other openings shall be equipped with screens or other appropriate equipment to prevent entry by wildlife, including migratory birds. Use of remote well control and monitoring telemetry. Reduce the area of disturbance by drilling multiple wells at one location versus individual well pads. Design multiple well pads to fit with the natural landscape of the area which reduces disturbance, habitat loss, and reclamation. Design oil and gas access roads to an appropriate construction standard, not to exceed intended functions. Planned pipelines and access road routs to minimize disturbance. Interim reclamation is used to restore vegetation, and scenic values and habitat resources during well production phase. Prior to reseeding this site, all disturbed areas, including the access road, would be scarified and left with a rough surface. This site would then be seeded and/or planted as prescribed by the private surface owner (Bill Barrett Corp.). Interim reclamation also includes segregation of topsoil to maintain integrity for reshaping, re-vegetating of roads and well pads to native slopes and landscapes. Centralized water management facilities will be used to reduce the size of individual well pads. In addition, this BMP will significantly reduce truck traffic and associated dust and emissions by utilizing temporary surface pipelines. Centralized compression and dehydration facilities will be used to reduce the size of individual well pads and reduce noise and potential vibration on individual well pads. If a location proves to be non-commercial, final reclamation will be implemented as soon as practical to restore the land to its previous productive use and natural habitat. Annual interim reclamation monitoring will be utilized to ensure proper growth of vegetation and to inspect for noxious weeds. Set and Post speed limits below 20 MPH and caution signs on access roads where allowed by surface owner. Worked with BLM and CDOW for proper siting selection to reduce unnecessary roads in important wildlife habitat, reduce visual contrast by screening and hiding. submitted by Michael Warren on Friday, March 12, 2010 at 3:17 P.M.

### **Attachment Check List**

Att Doc Num	Name	Doc Description
1791491	LOCATION PICTURES	LF@2437512 1791491
1791492	REFERENCE AREA PICTURES	LF@2437515 1791492
2032891	CORRESPONDENCE	LF@2425445 2032891
2032947	PROPOSED BMPs	LF@2434967 2032947
2032948	CORRESPONDENCE	LF@2434968 2032948
400030914	WELL LOCATION PLAT	LF@2221955 400030914
400030915	DRILLING PLAN	LF@2221956 400030915
400030916	ACCESS ROAD MAP	LF@2221957 400030916
400030917	LEGAL/LEASE DESCRIPTION	LF@2221958 400030917
400031184	MULTI-WELL PLAN	LF@2221959 400031184
400031185	HYDROLOGY MAP	LF@2221960 400031185
400031186	LOCATION DRAWING	LF@2221961 400031186
400031188	CONST. LAYOUT DRAWINGS	LF@2221962 400031188
400031189	NRCS MAP UNIT DESC	LF@2221963 400031189
400031190	NRCS MAP UNIT DESC	LF@2221964 400031190
400031193	REFERENCE AREA PICTURES	LF@2221965 400031193
400031194	PROPOSED BMPs	LF@2221966 400031194
400031608	REFERENCE AREA MAP	LF@2221967 400031608
400031610	FORM 2A SUBMITTED	LF@2221968 400031610

Total Attach: 19 Files