

**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:

400027377

**Oil and Gas Location Assessment**☐ New Location ☒ Amend Existing Location Location#: 313636

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:

**313636**

Expiration Date:

**07/31/2013**☒ 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: Tracey Fallang

Phone: (303) 312-8134

Fax: (303) 291-0420

email: tfallang@billbarrettcorp.com

**4. Location Identification:**

Name: McAfee Number: 16H-12-38-17

County: MONTEZUMA

Quarter: SESE Section: 12 Township: 38N Range: 17W Meridian: N Ground Elevation: 7121

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: 400 feet, from North or South section line: FSL and 660 feet, from East or West section line: FEL

Latitude: 37.559790 Longitude: -108.667450 PDOP Reading: 3.8 Date of Measurement: 11/04/2008

Instrument Operator's Name: Gerald (Anderson Engineering)

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

Special Purpose Pits: <input type="text" value="1"/>	Drilling Pits: <input type="text" value="1"/>	Wells: <input type="text" value="4"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="2"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="1"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="1"/>	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"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: Freshwater pond; may need temporary, surface-laid water pipeline

## 6. Construction:

Date planned to commence construction: 06/01/2010 Size of disturbed area during construction in acres: 5.85  
Estimated date that interim reclamation will begin: 09/15/2010 Size of location after interim reclamation in acres: 1.04  
Estimated post-construction ground elevation: 7121 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: Evaporation and Backfilling

## 7. Surface Owner:

Name: Charles McAfee Phone: 970-562-4477  
Address: PO Box 7 Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: Lewis State: CO Zip: 81327 Date of Rule 306 surface owner consultation: \_\_\_\_\_  
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: 1270, public road: 385, above ground utilit: 370  
, railroad: 158400, property line: 400

## 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: Map Unit Symbol: #116, Sharps-Cahona Complex, 6-12% slopes

NRCS Map Unit Name: Map Unit Symbol: #144, Wetherill Loam, 3-6% 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: \_\_\_\_\_

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: 1617, water well: 1410, depth to ground water: 20

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:

An exact drilling date has not been determined. For #6 above, reclamation would occur according to COGCC regs. Surface owner waived Rule 305/306 consultations within the Surface Damage Agreement (attached to Form 2). Well location is within a sensitive wildlife habitat area: elk winter concentration area. The well pad is set up to accommodate future wells; however, only one well is being proposed at this time. Surface use agreement filed with Form 2. final BMP's attached. 6/23/10 plg.

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

Signed: \_\_\_\_\_ Date: 01/12/2010 Email: tfallang@billbarrettcorp.com

Print Name: Tracey Fallang Title: Regulatory 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. Neslin*

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

Director of COGCC

Date: 8/1/2010

**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.**

No fencing or netting is required for inactive cuttings pits where free liquids are removed.

A minimum six-foot high fence is required for active (fracturing/flowback operations are ongoing) completion/water management pits and inactive cuttings pits containing free liquids.

If completion operations are delayed for more than 10 days from the end of 24 hour drilling operation then any completion/water management pit shall be fenced with a minimum six foot high fence and netting shall be installed to prevent access by birds.

Within 30 days after completion flowback ends, the operator will do one of the following to comply with Rule 902.d.: (1) initiate removal of liquids from all pits for final closure and remediation (2) submit a Sundry Notice, Form 4, with appropriate water quality documentation demonstrating that any liquids remaining in the pit will not harm wildlife; or (3) install a minimum six-foot fence with netting, to prevent access by birds, and a one-foot exclusionary fence (e.g. minimum one-foot height silt fencing or fine mesh) along the base of the fence anchored to the ground (not buried). In the event that circumstances preclude the operator from selecting one of these options within 30 days after completion flowback ends, then the operator may seek a variance to extend this 30-day period.

Operator agrees that if the location is built it will help fund a water supply well.

Pits in fill must be lined.

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.

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.

### Attachment Check List

Att Doc Num	Name	Doc Description
1693355	OTHER	LF@2494841 1693355
1693356		LF@2515591 1693356
2032881	CORRESPONDENCE	LF@2425246 2032881
2032882	HYDROLOGY MAP	LF@2425247 2032882
2032911	PROPOSED BMPs	LF@2427837 2032911
2032912	CORRESPONDENCE	LF@2427838 2032912
2032914	CORRESPONDENCE	LF@2428669 2032914
2032916	CORRESPONDENCE	LF@2429095 2032916
2589059	MULTI-WELL PLAN	LF@2396385 2589059
400027887	NRCS MAP UNIT DESC	LF@2216387 400027887
400027902	HYDROLOGY MAP	LF@2216390 400027902
400027915	PROPOSED BMPs	LF@2216391 400027915
400028038	FORM 2A SUBMITTED	LF@2216392 400028038
400028235	LOCATION DRAWING	LF@2216393 400028235
400028236	CONST. LAYOUT DRAWINGS	LF@2216394 400028236
400028237	ACCESS ROAD MAP	LF@2216395 400028237
400028238	LOCATION PICTURES	LF@2216396 400028238
400028239	FORM 2A SUBMITTED	LF@2216397 400028239

Total Attach: 18 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
DOW	<p>CDOW Conditions of Approval for the McAfee 16H-12-38-17</p> <p>1. Muffle or otherwise control exhaust noise from well sites and compressors during the production period so that operational noise will not exceed 49dBA at 30 ft, or an equivalent noise reduction at a given distance. Note that Noise levels at existing producing wells on this are range from 35-40dBA at 30ft.</p> <p>2. In consultation with CDOW and landowner, replace any permanently impacted, disturbed, or altered elk winter concentration area by enhancing marginal sagebrush steppe communities (sagebrush and mountain shrub) and grassland within or immediately adjacent to impacted habitat. This may include a water development.</p>	<p>7/31/2010 11:39:59 PM</p>

Total: 1 comment(s)