

FORM  
2A

Rev  
04/01

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:  
400387897

Date Received:  
03/11/2013

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 standalone 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:  
**432385**  
Expiration Date:  
**04/02/2016**

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: Mary Pobuda  
 Phone: (303) 312-8511  
 Fax: (303) 291-0420  
 email: mpobuda@billbarrettcorp.com

4. Location Identification:

Name: Pappenheim Number: 6-62-26-8H  
 County: WELD  
 Quarter: SWSW Section: 23 Township: 6N Range: 62W Meridian: 6 Ground Elevation: 4735

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: 225 feet FSL, from North or South section line, and 335 feet FWL, from East or West section line.  
 Latitude: 40.466360 Longitude: -104.297420 PDOP Reading: 1.4 Date of Measurement: 02/07/2013  
 Instrument Operator's Name: Wyatt Hall

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

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

Other: Oil & Water tanks will be 400 bbl

6. Construction:

Date planned to commence construction: 04/01/2013 Size of disturbed area during construction in acres: 4.80  
Estimated date that interim reclamation will begin: 04/01/2014 Size of location after interim reclamation in acres: 1.72  
Estimated post-construction ground elevation: 4735 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: \_\_\_\_\_  
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 Mgmt. Surety ID: \_\_\_\_\_

### 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes  No   
Distance, in feet, to nearest building: 1724, public road: 1689, above ground utility: 1953,  
railroad: 5280, property line: 225

### 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: 74 Vona loamy sand, 5 to 9 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: 02/07/2013  
List individual species: \_\_\_\_\_

- Check all plant communities that exist in the disturbed area.
- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
  - Native Grassland (Bluestem, 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: 6145, water well: 255, depth to ground water: 105  
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:**

Depth to groundwater is based on nearby well, no data available for the closest water well.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 03/11/2013 Email: mpobuda@bilbarretcorp.com  
Print Name: Mary Pobuda 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.  
COGCC Approved:  Director of COGCC Date: 4/3/2013

**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.

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**Attachment Check List**

Att Doc Num	Name
2233917	LOCATION DRAWING
400387897	FORM 2A SUBMITTED
400389866	ACCESS ROAD MAP
400389868	HYDROLOGY MAP
400389869	LOCATION PICTURES
400389870	NRCS MAP UNIT DESC
400389871	REFERENCE AREA MAP
400389872	REFERENCE AREA PICTURES
400389874	WASTE MANAGEMENT PLAN

Total Attach: 9 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final Review Completed. No LGD or public comment received.	4/2/2013 11:28:36 AM
Permit	Per operator corrected distance to nearest road, corrected right to construct, and attached new location drawing. SUA attached to form 2.	3/18/2013 3:30:13 PM
OGLA	Operator has identified the nearest water well to be 255 feet from the location, which appears to be a water well permit (#285252) issued and valid until 2014, but possibly not yet drilled. The oil and gas location is considered to be in a Sensitive Area due to the potential for a domestic well to be drilled within 1/8 mile of the location.  Changed the Sensitive Area Designation to Yes and notified the operator	3/13/2013 1:29:41 PM
Permit	Requested information on public road and on right to construct. Initial review complete. Form 2 and 2A compared.	3/13/2013 7:11:46 AM
Permit	Operator answered question. Ready to pass completeness.	3/12/2013 9:55:48 AM
Permit	Returned to draft. Salt or oil based mud question requires an answer	3/12/2013 9:41:54 AM

Total: 6 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	<p>STORM WATER AND SPILL CONTROL PRACTICES GENERAL</p> <ul style="list-style-type: none"><li>• Utilize diking and other forms of containment and diversions around tanks, drums, chemicals, liquids, pits, impoundments, or well pads</li><li>• Use drip pans, sumps, or liners where appropriate</li><li>• Limit the amount of land disturbed during construction of pad, access road, and facilities</li><li>• Employ spill response plan (SPCC) for all facilities</li><li>• Dispose properly offsite any wastes fluids and other materials</li></ul> <p>MATERIAL HANDLING, ACTIVITIES, PRACTICES AND STORM WATER DIVERSION</p> <ul style="list-style-type: none"><li>• Secondary containment of tanks, drums, and storage areas is mandatory to prohibit discharges to surface waters. A minimum of 110% capacity required of largest storage tank within a containment area</li><li>• Material handling and spill prevention procedures and practices will be followed to help prohibit discharges to surface waters</li><li>• Proper loading, and transportation procedures to be followed for all materials to and from locations</li></ul> <p>EROSION CONTROL</p> <ul style="list-style-type: none"><li>• Pad and access road to be designed to minimize erosion</li><li>• Pad and access road to implement appropriate erosion control devices where necessary to minimize erosion</li><li>• Routine inspections of sites and controls to be implemented with additions, repairs, and optimization to occur as necessary to minimize erosion</li></ul> <p>SELF INSPECTION, MAINTENANCE, AND HOUSEKEEPING</p> <ul style="list-style-type: none"><li>• All employees are trained in spill response, good housekeeping, material management practices, and procedures for equipment and container washing annually</li><li>• Conduct internal storm water inspections per applicable stormwater regulations</li><li>• Conduct routine informal inspections of all tanks and storage facilities at least weekly</li><li>• All containment areas are to be inspected weekly or following a heavy rain event.</li><li>• Any excessive precipitation accumulation within containment should be removed as appropriate and disposed of properly</li><li>• All structural berms, dikes, and containment will be inspected periodically to ensure they are operating correctly</li></ul> <p>SPILL RESPONSE</p> <ul style="list-style-type: none"><li>• Spill response procedures as per the BBC field SPCC Plan</li></ul> <p>VEHICLE &amp; LOCATION PROCEDURES</p> <ul style="list-style-type: none"><li>• Vehicles entering location are to be free of chemical, oil, mud, weeds, trash, and debris</li><li>• Location to be treated to kill weeds and bladed when necessary</li></ul>
Drilling/Completion Operations	<p>BBC GENERAL PRACTICES NOTIFICATIONS</p> <ul style="list-style-type: none"><li>• Proper notifications required by COGCC regulations or policy memos will be adhered to</li></ul> <p>TRENCHES/PITS/TEMPORARY FRAC TANKS</p> <ul style="list-style-type: none"><li>• Unlined pits will not be constructed on fill material.</li><li>• Drill cuttings from the wellbore will be directed into a lined and bermed surface containment. Any free liquids accumulated in the containment would be removed as soon as practicable.</li><li>• Flowback and stimulation fluids from the wells being completed will be sent to tanks and/or filters to allow the sand to settle out before the fluids are hauled to a state approved disposal facility.</li><li>• Temporary frac tanks installed on location will have proper secondary containment according to SPCC regulations such as either putting a perimeter berm around location or around the frac tanks.</li></ul>

Total: 2 comment(s)