

FORM
2A

Rev
08/13

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:

400663864

Date Received:

08/14/2014

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: _____

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location 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. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

439629

Expiration Date:

10/30/2017

This location assessment is included as part of a permit application.

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.

Operator

Operator Number: 10071
 Name: BARRETT CORPORATION* BILL
 Address: 1099 18TH ST STE 2300
 City: DENVER State: CO Zip: 80202

Contact Information

Name: Venessa Langmacher
 Phone: (303) 312-8172
 Fax: (303) 291-0420
 email: vlangmacher@billbarrettcorp.com

RECLAMATION FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID: 20040060 Gas Facility Surety ID: _____
- Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Anschutz State Number: 5-62-26_25 NWSW
 County: WELD
 Quarter: NWSW Section: 26 Township: 5N Range: 62W Meridian: 6 Ground Elevation: 4642

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 2177 feet FSL from North or South section line
350 feet FWL from East or West section line

Latitude: 40.369647 Longitude: -104.298919

PDOP Reading: 1.7 Date of Measurement: 04/30/2014

Instrument Operator's Name: Greg Weimer

RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is:

LOCATION ID # FORM 2A DOC #

Production Facilities Location serves Well(s)

400663157

FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	<u>5</u>	Oil Tanks	<u>11</u>	Condensate Tanks	<u> </u>	Water Tanks	<u>2</u>	Buried Produced Water Vaults	<u> </u>
Drilling Pits	<u> </u>	Production Pits	<u> </u>	Special Purpose Pits	<u> </u>	Multi-Well Pits	<u> </u>	Temporary Large Volume Above Ground Tanks	<u>2</u>
Pump Jacks	<u>5</u>	Separators	<u>11</u>	Injection Pumps	<u>2</u>	Cavity Pumps	<u> </u>		
Gas or Diesel Motors	<u> </u>	Electric Motors	<u>5</u>	Electric Generators	<u>2</u>	Fuel Tanks	<u> </u>	Gas Compressors	<u>1</u>
Dehydrator Units	<u> </u>	Vapor Recovery Unit	<u>1</u>	VOC Combustor	<u>3</u>	Flare	<u>1</u>	LACT Unit	<u> </u>
								Pigging Station	<u>1</u>

OTHER FACILITIES

Other Facility Type

Number

Injection Pipeline, 4" Steel	11
Vapor Recovery Tower	2
Flowlines, 4" Steel	11
Gas Pipeline, 2" Steel	11
Water Pipeline, 3" Steel	11
Oil Pipeline, 3" Steel	11

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

See pipeline and flowline counts above. When possible temporary water pipelines will carry water from storage tanks or water sources to well completion sites. Pipes will be made of flexible and rigid materials (plastic, aluminum and steel) generally 8" to 12" in diameter. The length will be determined by the distance to the well site to be serviced for the fracing operation. This will greatly minimize the number of truck trips required for the well completion.

This location will have 2 temporary LVST's and 10-500 bbl frac tanks OR up to 110-500 bbl frac tanks. Frac tanks located on this pad may service completion operations being conducted on an adjacent pad location. A sundry would be submitted in the event this situation occurs. Surface owner approval would be obtained where necessary. This location will also have up to 15-300 bbl temporary tanks for drilling operations.

CONSTRUCTION

Date planned to commence construction: 09/15/2014 Size of disturbed area during construction in acres: 13.26

Estimated date that interim reclamation will begin: 03/15/2015 Size of location after interim reclamation in acres: 3.46

Estimated post-construction ground elevation: 4640

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H₂S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? No

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Land application

Cutting Disposal: OFFSITE Cuttings Disposal Method: Other

Other Disposal Description:

Cuttings from the vertical portion of the well(s) will be hauled to Krier Spread field. Cuttings from the lateral portion of the wellbore(s) will be hauled to a commercial disposal facility OR hauled to Krier.

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: 430225 or Document Number: _____

Centralized E&P Waste Management Facility ID, if applicable: _____

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: State of Colorado

Phone: _____

Address: 1313 Sherman Street

Fax: _____

Address: Suite 620

Email: _____

City: Denver State: CO Zip: 80203

Surface Owner: Fee State Federal Indian

Check all that apply. The Surface Owner: is the mineral owner

is committed to an oil and Gas Lease

has signed the Oil and Gas Lease

is the applicant

The Mineral Owner beneath this Oil and Gas Location is: Fee State Federal Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

The right to construct this Oil and Gas Location is granted by: oil and gas lease

Surface damage assurance if no agreement is in place: _____ Surface Surety ID: _____

Date of Rule 306 surface owner consultation _____

CURRENT AND FUTURE LAND USE

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

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

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 3705 Feet
Building Unit: 5280 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 5280 Feet
Above Ground Utility: 5280 Feet
Railroad: 5280 Feet
Property Line: 350 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: Buffer Zone
 Exception Zone
 Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: _____
Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: _____

SOIL

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.org/> 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: 70: Valent Sand 3-9%
NRCS Map Unit Name: _____
NRCS Map Unit Name: _____

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: 04/27/2014
List individual species: bluestem, grama, wheatgrass, buffalograss, fescue, oatgrass

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, Chokeycherry)
 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): _____

WATER RESOURCES

Is this a sensitive area: No Yes

Distance to nearest

downgradient surface water feature: 5280 Feet

water well: 3559 Feet

Estimated depth to ground water at Oil and Gas Location 30 Feet

Basis for depth to groundwater and sensitive area determination:

Static Water Level of nearby water well Permit #6062.

Is the location in a riparian area: No Yes

Was an Army Corps of Engineers Section 404 permit filed No Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No 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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

RULE 502.b VARIANCE REQUEST

- Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number _____

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

OPERATOR COMMENTS AND SUBMITTAL

Comments

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

Signed: _____ Date: 08/14/2014 Email: vlangmacher@billbarrettcorp.com

Print Name: Venessa Langmacher Title: Sr 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: Matthew Lee Director of COGCC Date: 10/31/2014

Conditions Of Approval

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.

COA Type

Description

	Operator shall submit a Form 42 to the COGCC 48 hours prior to commencement of construction activities.
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Best Management Practices

No	BMP/COA Type	Description
1	Storm Water/Erosion Control	<p>STORM WATER AND SPILL CONTROL PRACTICES</p> <p>GENERAL</p> <ul style="list-style-type: none"> · Utilize diking and other forms of containment and diversions around tanks, drums, chemicals, liquids, pits, impoundments, or well pads. Alternatively secondary containment may be provided around the entire perimeter of the location when containment structures are not feasible in immediate vicinity of storage vessels. · Use drip pans, sumps, or liners where appropriate · Limit the amount of land disturbed during construction of pad, access road, and facilities · Employ spill response plan (SPCC) for all facilities · Dispose properly offsite any wastes fluids and other materials <p>MATERIAL HANDLING, ACTIVITIES, PRACTICES AND STORM WATER DIVERSION</p> <ul style="list-style-type: none"> · 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 · Material handling and spill prevention procedures and practices will be followed to help prohibit discharges to surface waters · Proper loading, and transportation procedures to be followed for all materials to and from locations <p>EROSION CONTROL</p> <ul style="list-style-type: none"> · Pad and access road to be designed to minimize erosion · Pad and access road to implement appropriate erosion control devices where necessary to minimize erosion · Routine inspections of sites and controls to be implemented with additions, repairs, and optimization to occur as necessary to minimize erosion <p>SELF INSPECTION, MAINTENANCE, AND HOUSEKEEPING</p> <ul style="list-style-type: none"> · All employees are trained in spill response, good housekeeping, material management practices, and procedures for equipment and container washing annually · Conduct internal storm water inspections per applicable stormwater regulations · Conduct routine informal inspections of all tanks and storage facilities at least weekly · All containment areas are to be inspected weekly or following a heavy rain event. · Any excessive precipitation accumulation within containment should be removed as appropriate and disposed of properly · All structural berms, dikes, and containment will be inspected periodically to ensure they are operating correctly <p>SPILL RESPONSE</p> <p>Spill response procedures as per the BBC field SPCC Plan</p> <p>VEHICLE & LOCATION PROCEDURES</p> <ul style="list-style-type: none"> · Vehicles entering location are to be free of chemical, oil, mud, weeds, trash, and debris · Location to be treated to kill weeds and bladed when necessary
2	Drilling/Completion Operations	<p>BBC GENERAL PRACTICES</p> <p>NOTIFICATIONS</p> <ul style="list-style-type: none"> · Proper notifications required by COGCC regulations or policy memos will be adhered to <p>TRENCHES/PITS/TEMPORARY FRAC TANKS</p> <ul style="list-style-type: none"> · Unlined pits will not be constructed. · Drill cuttings will either be hauled to an approved spread field or waste disposal facility or will be treated and disposed of onsite. Disposal methods will comply with COGCC regulations. · 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. · 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.

3	Drilling/Completion Operations	<p>Large Volume Above Ground Storage Tanks: BBC will be utilizing two 40,000 bbls tanks provided by Well Water Solutions. The tanks are approximately 156 feet in diameter and 12 feet tall. Well Water Solution's tanks are manufactured in accordance with designs and specifications that have been reviewed and certified by a Professional Engineer. The tanks will be erected by Well Water Solutions or a contractor authorized by Well Water Solutions to set up their tanks. The tanks will be filled with fresh water obtained from local fresh water sources. The tanks will be placed within the perimeter berm that will be constructed around the entire pad.</p> <p>The tanks will be placed on cut only. We also bring in dirt and create a solid, flat, and level area for the tank to sit on before the vender starts work on the tank. Then the vender digs a small trench and lays down a geo pad before starting to assemble the tank.</p> <p>During initial pad construction, compactors are utilized along with wetting of soil while compacting. This is standard BBC procedure. Also all fittings and flow lines are schedule 80 (2400 psi WP) along with all connections being welded. Tanks will be placed on a bed of sand with a 36 mil synthetic liner that is attached to 3' corrugated containment.</p> <p>The tank(s) will be on location for approximately 1 month. Freshwater will be obtained from Bluewater Resources Depot in Windsor, CO; an industrial water depot. Please see diagrams and contingency plan attached.</p>
4	Drilling/Completion Operations	BBC certifies that the MLVTs will be designed and implemented consistent with the MLVT Policy dated 6/13/14.

Total: 4 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400663864	FORM 2A SUBMITTED
400663904	ACCESS ROAD MAP
400663906	FACILITY LAYOUT DRAWING
400663908	HYDROLOGY MAP
400663910	LOCATION DRAWING
400663912	MULTI-WELL PLAN
400663914	LOCATION PICTURES
400663916	NRCS MAP UNIT DESC
400663918	REFERENCE AREA MAP
400663919	REFERENCE AREA PICTURES
400663922	WASTE MANAGEMENT PLAN
400663924	OTHER
400663932	OTHER

Total Attach: 13 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Surface Restoration Bond on file with SLB; per Tim Kelly.	10/29/2014 10:14:10 AM
Permit	Final Review Completed. No LGD or public comment received.	10/20/2014 1:57:56 PM
OGLA	Changed Estimated Depth to Groundwater to 30 feet based on DWR Permit #6062. Added "DWR Permit #6062" to the Basis statement.	9/8/2014 5:27:09 PM
OGLA	Changed Interim Reclamation date to 03/15/2015 for compliance with 1000 Series Rules.	9/8/2014 5:25:00 PM
Permit	Passed Completeness	8/18/2014 2:00:45 PM

Total: 5 comment(s)