

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:

401197177

Date Received:

03/23/2017

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: _____

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:

450230

Expiration Date:

05/04/2020

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: Matt Barber
 Phone: (303) 312-8188
 Fax: (303) 291-0420
 email: mbarber@billbarrettcorp.com

RECLAMATION FINANCIAL ASSURANCE

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

LOCATION IDENTIFICATION

Name: Peterson Production Pad Number: 5-63-30 SWNE
 County: WELD
 Quarter: SWNE Section: 30 Township: 5N Range: 63W Meridian: 6 Ground Elevation: 4573

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: 1608 feet FNL from North or South section line
1965 feet FEL from East or West section line

Latitude: 40.373444 Longitude: -104.476803

PDOP Reading: 1.1 Date of Measurement: 01/17/2017

Instrument Operator's Name: Chad Meiers

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: _____ Drilling Fluids Disposal Method: _____

Cutting Disposal: _____ Cuttings Disposal Method: _____

Other Disposal Description:

Beneficial reuse or land application plan submitted? _____

Reuse Facility ID: _____ or Document Number: _____

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Dorothy Peterson

Phone: _____

Address: 30584 CR 380

Fax: _____

Address: _____

Email: _____

City: Kersey State: CO Zip: 80644

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: Surface Use Agreement

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): county records show grazing land

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): county records show grazing land

Subdivided: Industrial Commercial Residential

CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	_____ Feet	790 Feet
Building Unit:	_____ Feet	790 Feet
High Occupancy Building Unit:	_____ Feet	5280 Feet
Designated Outside Activity Area:	_____ Feet	5280 Feet
Public Road:	_____ Feet	198 Feet
Above Ground Utility:	_____ Feet	30 Feet
Railroad:	_____ Feet	5280 Feet
Property Line:	_____ Feet	533 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.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

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.
- Large UMA Facility - 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: 01/24/2017

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: 01/17/2017

FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*
- By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

See Comments Section under submittal as character limitation.

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 be 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: 68—Ustic Torriorthents, moderately steep

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: 02/03/2017

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): Industrial

WATER RESOURCES

Is this a sensitive area: No Yes

Distance to nearest

downgradient surface water feature: 1015 Feet

water well: 261 Feet

Estimated depth to ground water at Oil and Gas Location 27 Feet

Basis for depth to groundwater and sensitive area determination:

The depth to ground water is based on static water level of the nearest water well, permit #9060925, which has been identified from data pulled from the Department of Water Quality Resources on September 2016.

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 zone: No

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified:

Is the Location within a Floodplain? No Yes Floodplain Data Sources Reviewed (check all that apply)

Federal (FEMA)

State

County

Local

Other

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

WILDLIFE

This location is included in a Wildlife Mitigation Plan

This location was subject to a pre-consultation meeting with CPW held on _____

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of a Building Unit) and is in an Urban Mitigation Area
- 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

This is a production facility only. No wells are planned on the location.

The Building Unit Owner within the 1000' Buffer Zone has waived the Rule 305.a(2) Pre-Application Notification and the Rule 305.c(2) Buffer Zone Notification. Waiver of both is attached. Note that because Rule 305.a(2) and 305.c(2) were waived, 306.e would not apply.

Siting Rationale: The production facility has been placed off the Peterson 5-63-30 NENE well pad (Document Number: 401195971) and Peterson 5-63-30 NWNE well pad (Document Number: 401197392) per Surface Owner request. The Surface Owner is the Building Unit Owner within 1000 feet and is also a mineral owner. To keep the pad sizes at a minimum to reduce disturbance within the Surface Owner's agricultural area, the Surface Owner requested the production facility be located off the well pads and adjacent to the existing Great Western production facility. BBC has conducted multiple field meetings with Surface Owner representatives as well as Great Western field personnel to ensure facilities were planned in accordance with their requests. The existing Great Western facility was constructed in 2008, prior to the 2A requirements and lies approximately 915 feet from the building unit owner. There have been no complaints filed in regard to the existing facility. In addition, BBC has planned the compressor to be located on the Peterson NWNE well pad, outside of the 1000 feet buffer to reduce potential noise nuisances.

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

Signed: _____ Date: 03/23/2017 Email: mbarber@billbarrettcorp.com

Print Name: Matt Barber 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:  Director of COGCC Date: 5/5/2017

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.

<u>COA Type</u>	<u>Description</u>

Best Management Practices

No	BMP/COA Type	Description
1	Planning	The only lighting on the facility will be located within the LACT unit building. No outside permanent lighting will be present.
2	Traffic control	COGCC Rule 604.c.(2)D.: Traffic Plan The road is existing and was built to access the existing pad/production facility operated by Great Western. A traffic control plan was not required by Weld County and is not anticipated. Dust suppression (water trucks) will be utilized as necessary
3	Traffic control	COGCC Rule 604.c.(2)S.: Access Roads The access road is existing and all leasehold roads have/will be maintained to accommodate local emergency vehicle access requirements, and shall be maintained in a reasonable condition.
4	General Housekeeping	COGCC Rule 604.c.(2)P: Trash would be contained in a trash cage or dumpster and hauled away to an approved disposal facility.
5	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 expansion of the existing facility. · 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"> · Appropriate erosion control devices, where necessary, will be installed to minimize erosion · During active construction and interim reclamation, BBC will comply with the stormwater inspection requirements as required by CDPHE. On a post-construction basis, inspections of sites will occur daily and additions, repairs will occur as necessary. <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 as required by CDPHE's CDPS General Permit Number COR30000. · All secondary containment areas are to be inspected weekly or following a heavy rain event. · Any precipitation accumulation within secondary containment should be removed if the presence of precipitation materially impacts the capacity of the containment.
6	Material Handling and Spill Prevention	COGCC Rule 604.c.(2)N.: Control of Fire Hazards Materials not in use will be kept a minimum of 25' from wellhead and separator. All electrical installations will be done in accordance with current NEC and API RP 500.
7	Material Handling and Spill Prevention	COGCC Rule 604.c.(2)F.: Leak Detection Plan - Leak detection will occur visually through daily pumper visits, monthly during IR camera inspections and annually in accordance with COGCC's flowline testing guidance.
8	Dust control	Dust suppression (water trucks) will be utilized as necessary.
9	Construction	COGCC Rule 604.c.(2)M.: Fencing Requirements - Fencing will be installed, as requested by surface owner

10	Construction	COGCC Rule 604.c.(2)G.: Berm Construction - Berms to be constructed to sufficiently contain and provide secondary containment for 150% of the largest tank with inspections to occur at regular intervals to ensure compliance with rule requirements.
11	Construction	COGCC Rule 604.c.(2)R.: Tank Specifications Tanks will meet NFPA standards and all records related to design, construction and maintenance will be maintained and available for inspection upon request.
12	Noise mitigation	COGCC Rule 604.c.(2)A.: Noise BBC has applied for a connection to line power with Poudre Valley REA; however, the timing of installation of this power is uncertain. Therefore, a generator will be required to provide power to the production facility until such time line power has been installed. A sound wall or building will be installed around this generator to reduce noise below the maximum permissible levels. Compression needed for the wells has been purposely located off the production facility, on the Peterson 5-63-30 NWNE well pad (Document Number: 401197392) to be outside of the 1000' buffer.
13	Odor mitigation	BBC does not anticipate any mitigation measures will be necessary for odors. Sealed tanks with pressure relief valves and emissions controls will be utilized.
14	Final Reclamation	COGCC Rule 604.c.(2)T.: Well Site Cleared - Within ninety (90) days of plugging all wells flowing to this facility, the production site shall be cleared of all flowlines, plugged as necessary, equipment, trash, and debris.

Total: 14 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1010204	NRCS MAP UNIT DESC
1010209	FACILITY LAYOUT DRAWING
401197177	FORM 2A SUBMITTED
401231149	OTHER
401241392	ACCESS ROAD MAP
401241409	LOCATION DRAWING
401241410	LOCATION PICTURES
401243998	SURFACE AGRMT/SURETY

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	05/03/2017
OGLA	Changed the distance to the nearest surface water feature to 1,015 feet based on the boundary of the proposed Location and not the disturbed area. There are no surface water features located within 1,000 feet of the proposed Location. A Hydrology Map is not required.	05/02/2017
OGLA	The 500-foot Radius on the Location Drawing was taken from the edge of the total disturbance which extends further from the northern boundary of the permitted area. This Form 2A is for the construction in the southern portion of the Location and includes only the facilities listed on the Facilities List.	05/02/2017
OGLA	The Glycol Heater, Free-Gas Knock-Out (FGKO) and Vapor Recovery Tower (VRT) shown on the Facility Layout Drawing are permitted as Separators on the Form 2A Facilities Lists for a total of nine pieces of separation equipment (Separators).	05/02/2017
OGLA	Per Operator request, added: "Pipeline Information included in the "OTHER FACILITIES" in the Pipeline Information box. Missing NRCS Map Unit Description. - Per Operator request, attached missing NRCS MAP UNIT DESC to the Attachments. Missing BMPs 604.c.(2)R and 604.c.(2)S. - Per Operator request, added the following BMPs: COGCC Rule 604.c.(2)R.: Tank Specifications Tanks will meet NFPA standards and all records related to design, construction and maintenance will be maintained and available for inspection upon request. COGCC Rule 604.c.(2)S.: Access Roads The access road is existing and all leasehold roads have/will be maintained to accommodate local emergency vehicle access requirements, and shall be maintained in a reasonable condition. Railroad corridor that shows on the COGIS CDOT Railroad Layer no longer exists.	04/26/2017
Permit	Permitting Review Complete.	04/11/2017
LGD	This proposed location is in the Agricultural Zoned District of unincorporated Weld County. A Weld Oil and Gas Location Assessment (WOGLA) was required for the well pad and associated production facilities. The Director of the Weld County Department of Planning Services granted Administrative Approval to WOGLA17-0004 on April 10, 2017. Copies of the WOGLA documents are available from Weld County Government. A building permit is required for production equipment (tank battery, separators, pump jacks, compressors, generators, etc.) from the Department of Planning Services. Troy Swain, Weld County Oil/Gas Liaison and LGD (970) 400-3579.	04/10/2017
Permit	Passes completeness.	03/27/2017
Permit	Returned to draft: --SUA not signed by operator.	03/27/2017
OGLA	Passed Buffer Zone completeness review. Operator is constructing adjacent to an existing GWOC facility that it has informed COGCC it intends to acquire. The planned facility is within a previously disturbed area and reference area map and photos requirements will be determined during the technical review. COGCC anticipates that BBC will amend the facility to include the GWOC equipment and disturbed area after Form 10 approval.	03/24/2017
Permit	Referred to OGLA for Buffer Zone review	03/24/2017

Total: 11 comment(s)