

APPLICATION FOR PERMIT TO:

Drill
 Deepen
 Re-enter
 Recomplete and Operate

TYPE OF WELL OIL <input type="checkbox"/> GAS <input type="checkbox"/> COALBED <input type="checkbox"/> OTHER <u>Re-Plug</u>	Refiling <input type="checkbox"/>
ZONE TYPE SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONES <input type="checkbox"/> COMMINGLE ZONES <input type="checkbox"/>	Sidetrack <input type="checkbox"/>

Date Received:
12/05/2013

Well Name: Kunsemiller Well Number: 1
 Name of Operator: BARRETT CORPORATION* BILL COGCC Operator Number: 10071
 Address: 1099 18TH ST STE 2300
 City: DENVER State: CO Zip: 80202
 Contact 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

WELL LOCATION INFORMATION

QtrQtr: SWNW Sec: 21 Twp: 5N Rng: 61W Meridian: 6
 Latitude: 40.387027 Longitude: -104.218944

Footage at Surface: 2500 feet FNL/FSL FNL 1300 feet FEL/FWL FWL

Field Name: RIVERSIDE Field Number: 73800
 Ground Elevation: 4662 County: WELD

GPS Data:
 Date of Measurement: 12/06/2013 PDOP Reading: 0.0 Instrument Operator's Name: John Doe

If well is Directional Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL FEL/FWL Bottom Hole: FNL/FSL FEL/FWL

Sec: _____ Twp: _____ Rng: _____ Sec: _____ Twp: _____ Rng: _____

LOCATION SURFACE & MINERALS & RIGHT TO CONSTRUCT

Surface Ownership: Fee State Federal Indian

The Surface Owner is: is the mineral owner beneath the location.
 (check all that apply) 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 by this Well: No

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

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

LEASE INFORMATION

Using standard QtrQtr, Sec, Twp, Rng format, describe one entire mineral lease that will be produced by this well (Describe lease beneath surface location if produced. Attach separate description page or map if necessary.)

T5N-R61W, Section 21: NW/4

Total Acres in Described Lease: 160 Described Mineral Lease is: Fee State Federal Indian

Federal or State Lease # _____

Distance from Completed Portion of Wellbore to Nearest Lease Line of described lease: 175 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5280 Feet

Building Unit: 5280 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 1300 Feet

Above Ground Utility: 1350 Feet

Railroad: 5280 Feet

Property Line: 120 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of the Proposed Well to nearest of each cultural feature as described in Rule 303.a.(5).

- 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: _____

SPACING and UNIT INFORMATION

Distance from Completed Portion of Wellbore to Nearest Wellbore Permitted or Completed in the same formation: 520 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary _____ Feet (Enter 5280 for distance greater than 1 mile.)

Federal or State Unit Name (if appl): _____ Unit Number: _____

SPACING & FORMATIONS COMMENTS

OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
J SAND	JSND			

DRILLING PROGRAM

Proposed Total Measured Depth: 6854 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 520 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H₂S Drilling Operations Plan)

Will salt sections be encountered during drilling? No

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

Will oil based drilling fluids be used? No

BOP Equipment Type: Annular Preventor Double Ram Rotating Head None

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule N/A

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Land application

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Other

Other Disposal Description:

Mud and Cuttings will be hauled to Krier Spreadfield.

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: 430225 or Document Number:

CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
SURF	13+1/2	8+5/8	36	0	183	0	183	0
1ST	6+1/8	4+1/2	11.6	0	6854	0	6854	0

Conductor Casing is NOT planned

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)

GREATER WATTENBERG AREA LOCATION EXCEPTIONS

Check all that apply:

- Rule 318A.a. Exception Location (GWA Windows).
- Rule 318A.c. Exception Location (GWA Twinning).

RULE 502.b VARIANCE REQUEST

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

OTHER LOCATION EXCEPTIONS

Check all that apply:

- Rule 318.c. Exception Location from Rule or Spacing Order Number
- Rule 603.a.(2) Exception Location (Property Line Setback).

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

The purpose of this re-entry is to adequately re-plug due to the COA from a nearby horizontal well. There will be no pits constructed and no additional surface disturbance is needed. See attached proposed plugging procedure and wellbore diagrams.

Steps

- 1.) Contact landowner 48 hours prior to commencing work on this well
- 2.) Contact state representative 48 hours prior to commencing work on this well
- 3.) Locate Dry Hole Marker
- 4.) Build temporary pad and access road for Completion rig and cement unit
- 5.) Cut off Dry hole marker
- 6.) Verify pipe size and weld on wellhead flange and riser
- 7.) MIRU completion rig and NU BOP
- 8.) MU 7 7/8" bit without nozzles and drill collars to drill out surface plug
- 9.) TIH w/ bit, drill collars and 2 7/8" PH6 tubing to next plug
- 10.) Continue to circulate mud to ensure hole clean out
- 11.) Continue TIH to 3000' and circulate two bottoms up (313 bbls)
- 12.) TOOH and LD bit and collars
- 13.) TIH to 3000' w/ 2 7/8" PH6 tubing
- 14.) RU Cementers
- 15.) Pump 50 sx balanced plug
- 16.) TOOH to surface casing shoe
- 17.) Pump 50 sx balanced plug from 233' to 133'
- 18.) RD cementers
- 19.) TOOH and LD tubing
- 20.) RDMO completion rig
- 21.) Dump 50' cement inside and outside surface casing
- 22.) Cut off wellhead and riser to 4' below ground level
- 23.) Weld on dry hole marker
- 24.) Clean location and reclaim

This application is in a Comprehensive Drilling Plan _____ CDP #: _____

Location ID: 404891

Is this application being submitted with an Oil and Gas Location Assessment application? No

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

Signed: _____ Print Name: Venessa Langmacher

Title: Sr Permit Analyst Date: 12/5/2013 Email: vlangmacher@billbarrettcorp.co

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 1/6/2014

Expiration Date: 01/05/2016

API NUMBER

05 123 05177 00

Conditions Of Approval

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

COA Type

Description

	<p>1) Provide 24 hour notice of MIRU to Bill Rains (C) 970-590-6480 or by e-mail at Bill.Rains@state.co.us.</p> <p>2) Set plugs as follows. One additional plug required from proposed due to 600' WW in NENE 29-5N-61W.</p> <p>Plug #1: 50 sks at 3000'. Tag or set 80 sx.</p> <p>Additional Plug #2: 40 sks at 800'.</p> <p>Plug #3: 50 sks at 233-133'. Tag.</p> <p>Plug #4: 15 sks at 50' to surface.</p> <p>3) Submit Form 6 – Subsequent Report of Abandonment within 30 days of plugging in accordance with Rule 311.</p> <p>4) Provide well location GPS coordinates on Subsequent Report of Abandonment in accordance with COGCC As-Built Location Policy and Rule 215.</p>
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Best Management Practices

No BMP/COA Type

Description

1	Drilling/Completion Operations	The as drilled GPS coordinates for this well will be submitted on the Form 6, Subsequent Report.
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Total: 1 comment(s)

Applicable Policies and Notices to Operators

Notice Concerning Operating Requirements for Wildlife Protection.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400522588	FORM 2 SUBMITTED
400522657	OTHER
400522660	WELLBORE DIAGRAM
400522679	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed.	12/27/2013 10:56:46 AM
Permit	Oper. sub. BMP for obtaining GPS coordinates and submitting on form 6, SRA. Oper. corrected distances to lease, nearest well.	12/13/2013 10:51:52 AM
Permit	Passed Completeness.	12/6/2013 11:28:37 AM

Total: 3 comment(s)