

FORM
2

Rev
08/16

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:

401200344

Date Received:

02/02/2017

APPLICATION FOR PERMIT TO:

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER _____

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☐

Well Name: Little Rush 4-65 28

Well Number: 1V

Name of Operator: BURLINGTON RESOURCES OIL & GAS LP

COGCC Operator Number: 26580

Address: PO BOX 4289

City: FARMINGTON

State: NM

Zip: 87499

Contact Name: Larissa Farrell

Phone: (505)326-9504

Fax: (918)662-6259

Email: Larissa.L.Farrell@ConocoPhillips.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 19920030

WELL LOCATION INFORMATION

QtrQtr: NWSW Sec: 28 Twp: 4S Rng: 65W Meridian: 6

Latitude: 39.671617

Longitude: -104.677108

Footage at Surface: 1531 Feet FNL/FSL FSL 422 Feet FEL/FWL FWL

Field Name: WILDCAT

Field Number: 99999

Ground Elevation: 5698

County: ARAPAHOE

GPS Data:

Date of Measurement: 01/18/2017 PDOP Reading: 1.2 Instrument Operator's Name: Dallas Nielsen

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

Footage at Top of Prod Zone: FNL/FSL FSL 500 FWL 1531 FSL 500 FWL
Sec: 28 Twp: 4S Rng: 65W Sec: 28 Twp: 4S Rng: 65W

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: Yes

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.)

See attached Lease Map

Total Acres in Described Lease: 471 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: 356 Feet

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2494 Feet
Building Unit: 2665 Feet
High Occupancy Building Unit: 4106 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 3759 Feet
Above Ground Utility: 2742 Feet
Railroad: 5280 Feet
Property Line: 278 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 proposed wellbore to nearest completed portion of offset wellbore permitted or completed in the same formation: 842 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 500 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.) |
|------------------------|----------------|-------------------------|-------------------------------|--------------------------------------|
| NIOBRARA | NBRR | 535-755 | 640 | S. 28 ALL |

DRILLING PROGRAM

Proposed Total Measured Depth: 8693 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:

Enter distance if less than or equal to 1,500 feet: _____ Feet ☒ No well belonging to another operator within 1,500 feet

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? Yes

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 609

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Methods: Recycle/reuse

Cuttings Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Drilling cuttings will be taken by a certified transport and will be taken to a certified disposal facility.

Beneficial reuse or land application plan submitted? _____

Reuse Facility ID: _____ 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 |
|-------------|--------------|----------------|-------|---------------|---------------|-----------|---------|---------|
| CONDUCTOR | 24 | 16 | 39.7 | 0 | 100 | 50 | 100 | 0 |
| SURF | 12+1/4 | 9+5/8 | 36 | 0 | 2219 | 600 | 2219 | 0 |
| 1ST | 8+3/4 | 5+1/2 | 23 | 0 | 8693 | 880 | 8693 | 2219 |

☐ 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 This well will be produced from the Niobrara only. The well will be drilled deeper in order to run logs through the Greenhorn.

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

Location ID: _____

Is this application being submitted with an Oil and Gas Location Assessment application? _____ Yes

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

Signed: _____ Print Name: Larissa Farrell

Title: Regulatory Technician Date: 2/2/2017 Email: Larissa.L.Farrell@ConocoPhillips

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:  Director of COGCC Date: 4/7/2017

Expiration Date: 04/06/2019

API NUMBER

05 005 07270 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

| | |
|--|--|
| | Open-hole Resistivity Log with Gamma Ray Log will be run from TD into the surface casing. A Cement Bond Log with Gamma-Ray will be run on production casing, or on intermediate casing if a production liner is run. The Form 5, Completion Report, will list all logs run and have those logs attached. |
| | This well can only be tested and completed in the Niobrara formation. No other formations are being permitted with this Form 2, Application for Permit to Drill. |
| | Bradenhead tests shall be performed and reported according to the following schedule and Form 17 submitted within 10 days of each test.: 1) Within 60 days of rig release, prior to stimulation. 2) 6 months after rig release, prior to stimulation. 3) Within 30 days of first production, as reported on Form 5A. |
| | 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU for the first well activity with a rig on the pad and provide 48 hour spud notice via Form 42 for all subsequent wells drilled on the pad. 2) Comply with Rule 317.j. and provide cement coverage from TD to a minimum of 200' above Niobrara. Verify coverage with cement bond log. |

Best Management Practices

No BMP/COA Type

Description

| | | |
|---|--------------------------------|--|
| 1 | Drilling/Completion Operations | Open-hole Resistivity Log with Gamma Ray Log will be run from TD into the surface casing. A Cement Bond Log with Gamma-Ray will be run on production casing, or on intermediate casing if a production liner is run. The Form 5, Completion Report, will list all logs run and have those logs attached. |
|---|--------------------------------|--|

Total: 1 comment(s)

Applicable Policies and Notices to Operators

| |
|--|
| Policy |
| Notice Concerning Operating Requirements for Wildlife Protection. http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf |

Attachment Check List

Att Doc Num

Name

| | |
|-----------|-------------------------|
| 2473076 | LEASE MAP |
| 2473085 | CORRESPONDENCE |
| 401200344 | FORM 2 SUBMITTED |
| 401200698 | DIRECTIONAL DATA |
| 401200702 | DEVIATED DRILLING PLAN |
| 401200705 | WELL LOCATION PLAT |
| 401200816 | LEGAL/LEASE DESCRIPTION |

Total Attach: 7 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|---------------------|
| Permit | Final review complete. No LGD or public comment received. | 04/06/2017 |
| Permit | With Operator's approval, revised comment on Submit tab, added COAs, and revised BMP. Attached Correspondence. | 04/06/2017 |
| Permit | Waiting for clarification from Operator regarding depth of rat hole and lease description. | 03/27/2017 |
| Permit | Passed initial permitting review. | 03/15/2017 |
| Permit | Status active - Per Operator, changed the distance to nearest lease line from 500' to 356', revised open hole logging BMP, and deleted open hole logging comment from Submit tab. Operator confirms the open hole Resistivity/Gamma log for this pad will be run on the Little Rush 4-65 28 1V. | 03/15/2017 |
| Permit | Status Pending - Requested clarification from Operator on distance to nearest lease line and agreement with open hole logging BMP. | 03/10/2017 |
| Permit | Per Operator request: - deleted incorrect Lease Map and attached revised Lease Map. | 03/09/2017 |
| Permit | Corrections made with Operator concurrence: - changed Date of GPS measurement from 2/18/217 to 1/18/2017. - changed Top of Producing Zone footage and Distance to Unit Boundary from 422 FWL to 500 FWL. - changed right to construct from SUA to Oil & Gas Lease. - cultural distance to nearest Designated Outside Activity Area revised. - added open hole logging BMP. - changed Description of "Other" attachment to "Lease Map". | 02/27/2017 |
| Permit | - Missing required Rule 317.p Logging BMP; this will be addressed during technical review. - Change right to construct from SUA to Lease; will be addressed during technical review. - Date of GPS measurement does not match attached well location plat; will be addressed during tech review. Passed completeness. | 02/10/2017 |
| Permit | Returned to draft: --SUA needs map describing lands covered by SUA --does operator plan to log open hole vertical portion of all wells on this pad or only this pilot hole? --is this a pilot hole? Is this well intended to be completed as a producer? --lease description not acceptable; map required --docket #170300136 for March hearing submitted; will this apply to this well? | 02/09/2017 |

Total: 10 comment(s)