

FORM

2

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:

400505755

## APPLICATION FOR PERMIT TO:

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

Date Received:

10/31/2013

TYPE OF WELL OIL ☐ GAS ☒ COALBED ☐ OTHER \_\_\_\_\_Refiling ☒ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐Sidetrack ☐

Well Name: OXY

Well Number: 22-25D

Name of Operator: BERRY PETROLEUM COMPANY LLC

COGCC Operator Number: 10091

Address: 1999 BROADWAY STE 3700

City: DENVER State: CO Zip: 80202

Contact Name: HEIDI BANG

Phone: (303)999-4262

Fax: (303)999-4362

Email: HSB@BRY.COM

## RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20040105

## WELL LOCATION INFORMATION

QtrQtr: NESE Sec: 21 Twp: 6S Rng: 97W Meridian: 6

Latitude: 39.506247

Longitude: -108.217328

Footage at Surface: 1825 feet FNL/FSL FSL 534 feet FEL/FWL FEL

Field Name: GRAND VALLEY

Field Number: 31290

Ground Elevation: 8366

County: GARFIELD

GPS Data:

Date of Measurement: 01/29/2007 PDOP Reading: 3.7 Instrument Operator's Name: ROBERT KAY

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

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

 2479 FNL 668 FWL 2479 FNL 668 FWL  
 Sec: 22 Twp: 6S Rng: 97W Sec: 22 Twp: 6S Rng: 97W

## LOCATION SURFACE &amp; MINERALS &amp; 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: Surface Use Agreement

Surface damage assurance if no agreement is in place: Surface Surety ID: 20040106

## 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.)

PLEASE SEE LEASE MAP ATTACHED TO ORIGINAL APD

Total Acres in Described Lease: 5165 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: 572 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: 5280 Feet

Above Ground Utility: 5280 Feet

Railroad: 5280 Feet

Property Line: 1987 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: 328 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 180 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.)
WILLIAMS FORK	WMFK	510-18	320	Sec. 22: N/2

## DRILLING PROGRAM

Proposed Total Measured Depth: 9413 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 328 Feet (Including plugged wells)

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No (If Yes, attach an H<sub>2</sub>S 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 609

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE Drilling Fluids Disposal Methods: Land application

Cuttings Disposal: ONSITE Cuttings Disposal Method: Other

Other Disposal Description:

LAND SPREADING: See Operator Comments and Submittal Section on SUBMIT TAB.

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	30	20	55	0	90	100	90	0
SURF	16	9+5/8	36	0	2000	1000	2000	0
1ST	8+3/4	4+1/2	11.6	0	9413	600	9413	200

☐ 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 Name change from 21-7D to 22-25D. SHL remains the same from original APD but the BHL changed. See revised plat and direction plan attached.  
There have been changes in the BHL (please see revised plat and direction plan attached).  
I certify that there have been no changes on land use, lease description.  
The pad has been built.  
The pit has been constructed.  
There will be no additional surface disturbance.  
The location does not require a variance from any of the rules listed in Rule 306.d.(1).(A).(ii).  
The location is not within a wildlife Restricted Surface Occupancy Area.  
  
Oxy owns surface and Chevron owns minerals.  
  
Cuttings Management: During drilling, operator will keep the drill cuttings segregated on the well pad. Cuttings will not be in contact with fill material or topsoil on location. After drilling and completion operations have been completed, soil amendments such as phosphorus and nitrogen will be utilized to expedite the amendment process (if necessary). On pads where a drilling pit is present, cuttings will be used in the backfilling of those pits. On pads where no drilling pit is present due to closed-loop drilling, amended cuttings that meet the Table 910-1 levels are spread on location with topsoil and seeded as part of reclamation activities.

This application is in a Comprehensive Drilling Plan \_\_\_\_\_ CDP #: \_\_\_\_\_

Location ID: 416468

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: HEIDI BANG

Title: REG COMPLIANCE ASST Date: 10/31/2013 Email: HSB@BRY.COM

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: 11/25/2014

Expiration Date: 11/24/2016

**API NUMBER**

05 045 19273 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) Operator shall comply with the most current revision of the Northwest Notification Policy. See attached notice.</p> <p>(2) Operator shall comply with the most current revision of the Garfield County Rulison Field Notice to Operators, with the following exception: All field notice requirements specified in that Notice to Operators are superseded by the requirements of the most current revision of the Northwest Colorado Notification Policy (see Condition of Approval #1). See attached notice.</p> <p>(3) The nearby hillside(s) must be monitored for any daylighting drilling fluids throughout the drilling of the surface casing interval. COGCC engineering staff must be notified as soon as practicable if daylighting is observed.</p> <p>(4) Comply with all provisions of the June 12, 2008 Notice to Operators Drilling Wells within 3/4 Mile of the Rim of the Roan Plateau in Garfield County - Pit Design, Construction and Monitoring Requirements. See attached notice.</p> <p>(5) Operator shall provide cement coverage from the production casing shoe (4+1/2" First String) to a minimum of 200' above all Mesa Verde Group (and Ohio Creek Formation, if present) oil, gas, and water-bearing sandstone and coalbed formations. Verify production casing cement coverage with a cement bond log.</p>
	Within 7 days of receipt of this approved form, Operator shall contact COGCC Reclamation Supervisor for site reclamation status verification.
	Open hole resistivity and gamma logs shall be run to describe the stratigraphy of the entire well bore and to adequately verify the setting depth of surface casing and aquifer coverage. On a multi-well pad, these open hole logs are only required on one of the first wells drilled on the pad and the Drilling Completion Report - Form 5 for every well on the pad shall identify which well was logged.
	Operator shall not use cuttings offsite for beneficial use without prior approval of a Form 4 Sundry Notice with a Beneficial Reuse/Recycling Plan per Rule 907.a.(3).

## Best Management Practices

### No BMP/COA Type

### Description

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## Applicable Policies and Notices to Operators

Piceance Rulison Field - Notice to Operators.
NW Colorado Notification Policy.
Notice Concerning Operating Requirements for Wildlife Protection.
Pit Design, Construction and Monitoring Requirements Within 3/4 mile of the Rim of the Roan Plateau.

## Attachment Check List

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
2106850	CORRESPONDENCE
400505755	FORM 2 SUBMITTED
400506310	WELL LOCATION PLAT
400506312	DEVIATED DRILLING PLAN
400507735	DIRECTIONAL DATA

Total Attach: 5 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Evaluated existing offset oil and gas wells within 1,500 feet of this wellbore. No mitigation required.	11/25/2014 6:26:21 PM
Permit	Waste management plan added to 2A. Final review complete.	11/25/2014 2:46:08 PM
Permit	Changed Permitting task back to active pending waste management plan on 2A.	8/25/2014 9:54:58 AM
Permit	Eform 2A has passed.	8/18/2014 6:21:59 AM
Permit	Final review completed. No LGD comments.	8/15/2014 9:02:52 AM
Permit	Form 2A ON HOLD. Location built, confirm compliance with COGCC Interim reclamation Rules and Conductor Setting Policy. The operator approved the change from Drilling pit to Cuttings trench, distance to the unit boundary.	1/30/2014 1:00:21 PM
OGLA	COGCC has removed the following statement from the 'Drilling & Waste Plans' tab under 'Drilling Waste Management Program': "FRESH WATER MUD WITH 3% DIESEL OIL AND OTHER ADDITIVES INCLUDING GILSONITE AND ASPHALT MAY BE UTILITZED." and changed 'Cuttings Disposal Method' to 'Cuttings Trench'. This correction was done based on an email dated 01-21-14 sent by Berry/Linn that stated: "In wells drilled before March 2011, 3% diesel was included in drilling fluids. Berry has not drilled any additional wells in our Piceance field since March 2011, and while we have no current plans to drill in the short/medium term, we have elected not to use diesel in drilling fluids in the future. This change will be included on all future permit submittals." This email has been attached as 'CORRESPONDENCE' to this permit.	1/28/2014 9:53:00 AM
Permit	Diesel issue.	12/31/2013 6:23:48 AM
Permit	Received refile statements.	12/31/2013 6:23:30 AM
Permit	Requested refile statements.	12/27/2013 7:50:41 AM
LGD	pass, gdb	11/25/2013 1:47:09 PM
Engineer	Offset water well check: There are no permitted water wells within 1 mile of this proposed surface hole location.	11/13/2013 2:07:33 PM
Permit	This form has passed completeness.	11/6/2013 6:49:18 AM
Permit	Returned to draft: 1) Xcel template didn't upload.	11/5/2013 3:46:56 PM
Permit	Returned to draft: 1) Delete attachment labeled OTHER. 2) Xcel template didn't upload. 3) TOP & BHL in Sec. 22 according to plat. 4) Unit configuration should be for Sec. 22.	11/4/2013 4:13:16 PM
Permit	Returned to draft: 1) Delete comments: not applicable. Pad has been built. 2) Attached sundry never rec'd and processed by COGCC. Please make comment regarding well name change and BHL changes from original permit. Need well location plat showing BHL. Need attachment labeled Directional Data to be labeled Deviated Drilling Plan. Need Xcel directional template uploaded. 3) Add unit configuration to spacing tab. 4) TD on drilling tab agrees w/ directional info, but casing tab has different TD.	11/1/2013 12:56:22 PM

Total: 16 comment(s)