

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:

401288091

#### APPLICATION FOR PERMIT TO:

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

Date Received:

05/23/2017

TYPE OF WELL OIL ☐ GAS ☐ COALBED ☒ OTHER Lateral #1

Refilling ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: North Carracas 32-5

Well Number: 9C-3

Name of Operator: RED WILLOW PRODUCTION COMPANY

COGCC Operator Number: 81295

Address: P O BOX 369

City: IGNACIO

State: CO

Zip: 81137

Contact Name: Marvin Seale

Phone: (970)563-5167

Fax: ( )

Email: mseale@rwpc.us

#### RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 12643

#### WELL LOCATION INFORMATION

QtrQtr: SWNE Sec: 9 Twp: 32N Rng: 5W Meridian: N

Latitude: 37.034513

Longitude: -107.393392

Footage at Surface: 1860 Feet FNL 1428 Feet FEL

Field Name: IGNACIO BLANCO

Field Number: 38300

Ground Elevation: 6150

County: ARCHULETA

GPS Data:

Date of Measurement: 10/13/2016 PDOP Reading: 2.0 Instrument Operator's Name: Kenneth E. Rea

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

1831 FNL 1093 FEL 660 FSL 1177 FEL  
Sec: 9 Twp: 32N Rng: 5W Sec: 9 Twp: 32N Rng: 5W

#### 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: Surface Use Agreement

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.)

T32N-R5W, N.M.P.M., Sec. 9: SENE, N2NESWNE, SENESWNE, NESESWNE; Sec. 10 SWNW

Total Acres in Described Lease: 90 Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # N/A, Fee Lease

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

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 385 Feet  
Building Unit: 590 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 750 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 250 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: 460 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 660 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.)
FRUITLAND COAL	FRLDC	112-272	640	All Section 9

## DRILLING PROGRAM

Proposed Total Measured Depth: 5799 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 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? Yes

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 608

## 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:

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
SURF	12+1/4	9+5/8	36	0	860	460	860	0
1ST	8+3/4	7+0/0	23	0	2502	270	2502	0
1ST LINER	6+1/8	4+1/2	11.6	2525	5799			

☒ 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

1. Insofar as this Application For Permit to Drill concerns lands within the jurisdiction of the Southern Ute Indian Tribe, it is submitted to the Colorado Oil and Gas Conservation Commission ("COGCC") in accordance with the terms of the Memorandum of Understanding dated Aug. 22, 1991 between the Bureau of Land Management ("BLM") and the Commission and the separate Memorandum of Understanding dated Aug. 22, 1991 between the Bureau of Indian Affairs ("BIA"), the BLM and the Southern Ute Indian Tribe.

2. The trajectory of the wellbore will be as follows:

a. This Form 2 is for the Lateral #1. The wellbore will enter the Fruitland Coal Formation approximately 1,831' FNL and 1,093' FEL, and

the bottom of the wellbore will be approximately 660' FSL, and 1,177' FEL, see attached directional data.

b. The completed interval will be within the authorized setbacks.

3. Applicant has a pending application before the COGCC, Docket No. 170500505 seeking an order to reduce the unit boundary setbacks of the drilling and spacing unit to which this well is being drilled from 990 feet to 660 feet.

4. Upon approval of the application to reduce the unit boundary setbacks of this drilling and spacing unit, Applicant will file a Form 4 Sundry Notice to amend the planned completed interval of this well.

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

Location ID: 419857

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: Marvin Seale

Title: Petroleum Engineer

Date: 5/23/2017

Email: mseale@rwpc.us

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: 8/20/2017

Expiration Date: 08/19/2019

API NUMBER

05 007 06296 01

## 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) If borehole problems occur while drilling and an unplanned sidetrack is required, the following shall apply:</p> <p>a.) Before proceeding, contact the COGCC Regional Engineer for SW Colorado for verbal approval and provide an explanation as to what happened to the original borehole and what the plan is for the sidetrack.</p> <p>Contact Information: Mark Weems – Regional Engineer-SW Colorado 970-259-4587 off 970-749-0624 cell mark.weems@state.co.us</p> <p>b.) Adhere to the instructions provided in the “UNPLANNED Sidetrack While Drilling: Approval and Reporting Process – Southwestern Colorado San Juan Basing ONLY” that can be found on the COGCC website at:</p> <p>Go to COGCC Web Site for more details if necessary Forms Form 2-Permit to Drill Instructions</p> <p>2) Contact COGCC Regional Engineer – Mark Weems when encountering a well control issue, unexpected water flows, and unexpected Hydrogen Sulfide.</p> <p>3) The two closest water wells within 1/4 mile radius of the proposed lateral shall be sampled &amp; analyzed (Cause 112 Orders 156-157 and rule 608) if not done previously.</p>
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## Best Management Practices

### No BMP/COA Type

### Description

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## Applicable Policies and Notices to Operators

Policy
Notice Concerning Operating Requirements for Wildlife Protection. <a href="http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf">http://cogcc.state.co.us/documents/reg/Policies/Wildlife_Notice.pdf</a>

## Attachment Check List

### Att Doc Num

### Name

901611	WELL LOCATION PLAT
901612	SURFACE AGRMT/SURETY
401288091	FORM 2 SUBMITTED
401288257	DIRECTIONAL DATA

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Added well location plat and SUA attachments, per operator.	08/15/2017
Permit	Final Review Completed. No LGD or public comment received.	08/14/2017
Permit	Updated Order is 112-272. Corrected 8/14/2017 per operator. Per operator, deselected "surface owner is committed to an oil and gas lease" as right to construct is through a Surface Use Agreement.	08/14/2017
Engineer	<p>This APD pertains just to a Coal Bed Methane (CBM) lateral well. Both the surface and production casings were previously assessed and approved in the constant angle (straight line) pilot well and have been carried forward with this permit for reference purposes. Initial drilling on all laterals will commence at a depth near the bottom end of the production casing depicted in the pilot well. The casing in this lateral will be pre-slotted and will not be cemented in place. These laterals will be completed naturally and will not be fracture stimulated. The Statewide HZ Offset Well Policy does not apply to horizontal wells not being fracture stimulated in the pay zone.</p> <p>The distance from the completed portion of proposed wellbore to the nearest completed portion of an offset wellbore permitted or completed in the same formation is greater than 300'.</p> <p>There is one other lateral well bore within 1500' of this lateral well bore that is operated by another company (Southland Royalty-API No. 067-06263).</p>	07/19/2017
Permit	Passed Completeness.	06/01/2017

Total: 5 comment(s)