

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:

400648158

## APPLICATION FOR PERMIT TO:

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

Date Received:

08/19/2014

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

Well Name: Savage RWF

Well Number: 523-26

Name of Operator: WPX ENERGY ROCKY MOUNTAIN LLC

COGCC Operator Number: 96850

Address: 1001 17TH STREET - SUITE #1200

City: DENVER State: CO Zip: 80202

Contact Name: Reed Haddock

Phone: (303)606-4086

Fax: (303)629-8268

Email: reed.haddock@wpxenergy.com

## RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030107

## WELL LOCATION INFORMATION

QtrQtr: SESW Sec: 26 Twp: 6S Rng: 94W Meridian: 6

Latitude: 39.492164

Longitude: -107.859651

Footage at Surface: 1146 feet FNL/FSL FSL 1460 feet FEL/FWL FWL

Field Name: RULISON

Field Number: 75400

Ground Elevation: 5350

County: GARFIELD

GPS Data:

Date of Measurement: 04/23/2008 PDOP Reading: 1.3 Instrument Operator's Name: J. Kirkpatrick

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

 1206 FSL 2643 FEL 1206 FSL 2643 FEL  
 Sec: 26 Twp: 6S Rng: 94W Sec: 26 Twp: 6S Rng: 94W

## LOCATION SURFACE &amp; MINERALS &amp; RIGHT TO CONSTRUCT

Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ IndianThe 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.)

Lease attached.

Total Acres in Described Lease: 560 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: 1206 Feet

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 1702 Feet

Building Unit: 1724 Feet

High Occupancy Building Unit: 5280 Feet

Designated Outside Activity Area: 5280 Feet

Public Road: 1643 Feet

Above Ground Utility: 541 Feet

Railroad: 5280 Feet

Property Line: 1656 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: 631 Feet

Distance from Completed Portion of Wellbore to Nearest Unit Boundary 1206 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	139-66	640	All

## DRILLING PROGRAM

Proposed Total Measured Depth: 7865 Feet

Distance to nearest permitted or existing wellbore penetrating objective formation: 631 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: OFFSITE Drilling Fluids Disposal Methods: Recycle/reuse

Cuttings Disposal: ONSITE Cuttings Disposal Method: Cuttings trench

Other Disposal Description:

Spent drilling fluids are treated with a de-watering unit. Separated mud solids are disposed with the drill cuttings in onsite cuttings trench. Separated water is re-used for drilling, or disposed at a permitted injection well.

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	26	18	48#	0	60	25	60	0
SURF	13+1/2	9+5/8	32.3#	0	1100	291	1100	0
1ST	8+3/4	4+1/2	11.6#	0	7865	980	7865	3816

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

Location ID: 323868

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: Reed Haddock

Title: Regulatory Specialist Sta Date: 8/19/2014 Email: reed.haddock@wpenergy.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: 11/5/2014

Expiration Date: 11/04/2016

### API NUMBER

05 045 22571 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

	(1) Compliance with the most current revision of the northwest Colorado notification policy is required. See attached notice.  (2) Compliance with the most current revision of the Garfield County Rulison field notice to operators is required, with the following exception: all field notice requirements specified in this 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.  (3) Cement on production casing must be a minimum of 200' above the top of the Mesa Verde Formation (or 200' above the Ohio Creek Formation if present). Cement top verification by CBL is required.
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## Best Management Practices

### No BMP/COA Type

### Description

1	Planning	WPX will run triple-combo open hole logs from well TD up to base of surface casing on one of the first wells drilled on a multi-well pad. Remaining wells on the pad will be logged with either cased hole pulsed neutron or triple-combo open hole. Every well will also have a CBL log from well TD up through well surface. Form 5 Completion Reports will identify wells on the pad with triple-combo open hole logs.
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Total: 1 comment(s)

### **Applicable Policies and Notices to Operators**

Piceance Rulison Field - Notice to Operators.

NW Colorado Notification Policy.

Notice Concerning Operating Requirements for Wildlife Protection.

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
2167900	DEVIATED DRILLING PLAN
400648158	FORM 2 SUBMITTED
400652428	OIL & GAS LEASE
400654833	TOPO MAP
400654836	WELL LOCATION PLAT
400667641	DEVIATED DRILLING PLAN
400667642	DIRECTIONAL DATA
400667643	SURFACE AGRMT/SURETY
400667940	FORM 2 SUBMITTED

Total Attach: 9 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final review complete.	11/4/2014 11:30:41 AM
Permit	Attached curve page of DS as per opr. Ready to pass.	10/21/2014 7:41:03 AM
Permit	Corrected BHL typo from 12066 FSL to 1206 FSL and notified opr. Requested curve page of deviated drilling plan. Corrected distance to nearest wellbore from 863' to 631' (the Savage RWF 34026 to the SW) as per opr.	10/20/2014 2:48:28 PM
LGD	Pass-GDB	8/29/2014 3:02:21 PM
Engineer	The proposed surface casing is more than 50' below the depth of the deepest water well within 1-mile of the surface location when corrected for elevation differences. The deepest water well within 1-mile is 250 feet deep.  Evaluated existing offset wells within 1,500 feet of this wellbore. No mitigation required.	8/29/2014 9:50:47 AM
Permit	Passed Completeness	8/20/2014 3:05:05 PM
Permit	returned to draft: GPS lat/long appear to be for BHL.	8/20/2014 2:43:57 PM
Permit	Per Operator request returned to draft.	8/19/2014 2:52:21 PM

Total: 8 comment(s)