

FORM
2A

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:

400551346

Date Received:

02/11/2014

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 335508

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location Assessment will allow for the construction of the below specified Location; however, it does not supersede any land use rules applied by the local land use authority. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

335508

Expiration Date:

06/17/2017

☐ This location assessment is included as part of a permit application.

CONSULTATION

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # _____
- ☒ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(1)A.ii. variance request.

Operator

Operator Number: 96850
Name: WPX ENERGY ROCKY MOUNTAIN LLC
Address: 1001 17TH STREET - SUITE #1200
City: DENVER State: CO Zip: 80202

Contact Information

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 ☐ Gas Facility Surety ID: _____
☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: RWF Number: 13-23 Frac Pad
County: GARFIELD
QuarterQuarter: SWSW Section: 23 Township: 6S Range: 94W Meridian: 6 Ground Elevation: 5428
Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.
Footage at surface: 899 feet FSL from North or South section line
1061 feet FWL from East or West section line
Latitude: 39.506044 Longitude: -107.861277
PDOP Reading: 2.6 Date of Measurement: 08/14/2012
Instrument Operator's Name: J. Kirkpatrick

RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is:

LOCATION ID # FORM 2A DOC #

FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	21	Oil Tanks		Condensate Tanks	1	Water Tanks	4	Buried Produced Water Vaults	
Drilling Pits		Production Pits		Special Purpose Pits		Multi-Well Pits		Temporary Large Volume Above Ground Tanks	
Pump Jacks		Separators	21	Injection Pumps		Cavity Pumps			
Gas or Diesel Motors		Electric Motors		Electric Generators		Fuel Tanks		Gas Compressors	
Dehydrator Units		Vapor Recovery Unit		VOC Combustor	1	Flare		LACT Unit	
								Pigging Station	

OTHER FACILITIES

Other Facility Type

Number

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

The RWF 13-23 Frac Pad will serve as the remote frac pad for the RWF 43-23 pad. Typical frac equipment consisting of approximately 10 to 15 temporary 500 bbl frac tanks to hold completions water will be placed on the RWF 13-23 frac pad. Three 4.5" steel temporary surface frac lines will be installed between the RWF 43-23 to the RWF 13-23 frac pad following the existing pipeline ROW. One 10" poly surface produced water line will be installed from the Juhan 14-26H pad to the RWF 13-23 frac pad following the existing pipeline ROW.

CONSTRUCTION

Date planned to commence construction: 03/17/2014 Size of disturbed area during construction in acres: 5.80
Estimated date that interim reclamation will begin: 09/21/2015 Size of location after interim reclamation in acres: 0.50
Estimated post-construction ground elevation: 5428

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No

Is H₂S anticipated? No

Will salt sections be encountered during drilling: No

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

Will oil based drilling fluids be used? No

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: _____

Drilling Fluids Disposal Method: _____

Cutting Disposal: _____

Cuttings Disposal Method: _____

Other Disposal Description:

This is for a frac pad. This pad is already built. No ground disturbance is going to occur.

Beneficial reuse or land application plan submitted? _____

Reuse Facility ID: _____ or Document Number: _____

Centralized E&P Waste Management Facility ID, if applicable: _____

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Joan Savage

Phone: _____

Address: P.O. Box 1926

Fax: _____

Address: _____

Email: _____

City: Rifle State: CO Zip: 81640

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☐ is the mineral owner

☐ 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 from or produced to this Oil and Gas Location: _____

The right to construct this Oil and Gas Location is granted by: Surface Use Agreement

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

Date of Rule 306 surface owner consultation _____

CURRENT AND FUTURE LAND USE

Current Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

Future Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 1242 Feet
Building Unit: 1242 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1318 Feet
Above Ground Utility: 1277 Feet
Railroad: 1748 Feet
Property Line: 107 Feet

INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.
- 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: _____

SOIL

List all soil map units that occur within the proposed location. attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.org/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: Potts loam, 6 to 12 percent slopes, Map Unit Description 56

NRCS Map Unit Name: _____

NRCS Map Unit Name: _____

PLANT COMMUNITY:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes ☐ No ☒

Plant species from: ☐ NRCS or, ☒ field observation Date of observation: 02/05/2013

List individual species: Cheatgrass, Sage

Check all plant communities that exist in the disturbed area.

- ☒ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
☐ Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
☒ Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
☐ Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
☐ Mountain Riparian (Cottonwood, Willow, Blue Spruce)
☐ Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
☐ Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
☐ Alpine (above timberline)
☐ Other (describe): _____

WATER RESOURCES

Is this a sensitive area: ☐ No ☒ Yes

Distance to nearest

downgradient surface water feature: 1047 Feet

water well: 1657 Feet

Estimated depth to ground water at Oil and Gas Location 15 Feet

Basis for depth to groundwater and sensitive area determination:

See attached Sensitive Area Determination

Is the location in a riparian area: ☒ No ☐ Yes

Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No zone:

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

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)

RULE 502.b VARIANCE REQUEST

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

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 request is for a frac pad. This pad is already built. No ground disturbance is going to occur.

This frac pad will support completion operations on the RWF 43-23 pad. Surface water line BMPs have been added in the Operator BMP/COA section of application.

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

Signed: _____ Date: 02/11/2014 Email: reed.haddock@wpenergy.com

Print Name: Reed Haddock Title: Regulatory Specialist Sta

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: 6/18/2014

Conditions Of Approval

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

COA Type

Description

	<p>Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or storage vessel located on the well pad; or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area constructed to be sufficiently impervious to contain any spilled or released material and with additional downgradient perimeter berming.</p> <p>Operator will implement measures to ensure that adequate separation of hydrocarbons from the influent occurs to prevent accumulation of oil on the surface of stored fluids. Operator shall also employ a method for monitoring buildup of phase-separated hydrocarbons on the surface of stored fluids.</p>
	<p>Operator must ensure secondary containment for any volume of fluids contained at frac pad site during operations (as described in the Sensitive Area Data attachment); including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the pit/frac pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.</p> <p>Strategically apply fugitive dust control measures, including enforcing established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>Operator shall stabilize exposed soils and slopes as an interim measure during frac pad operations at this site.</p> <p>The access road will be maintained as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.</p> <p>Additional containment shall be required where temporary or permanent pumps and other necessary equipment or chemicals are located on the frac pad site.</p> <p>Operator will use adequately sized containment devices for all chemicals and/or hazardous materials stored or used on location.</p>
	<p>Notify the COGCC 48 hours prior to start of frac pad construction, pipeline installation, pipeline testing, and start of hydraulic stimulation operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p> <p>The frac pad facility shall be in operation for no longer than 3 years.</p>

Best Management Practices

No	<u>BMP/COA Type</u>	<u>Description</u>
1	Planning	Minimize the number, length, and footprint of oil and gas development roads. Use existing roads where possible. Combine and share roads to minimize habitat fragmentation. Maximize use of remote completion/frac operations to minimize traffic.
2	Drilling/Completion Operations	Use centralized hydraulic fracturing operations. Conduct well completions with drilling operations to limit the number of rig moves and traffic. Poly lines to be tested to 120% of anticipated maximum working pressure. COGCC notified, via email, 48 hours prior to pressure testing poly line. Prior to pumping operations, evaluate water movement routes to insure minimal impact at transition points. Valves to be capped when not in service. Containment at pumps required at all times and should be able to handle two times the suction hose volume. Valve placement when possible at bottom of major hills to isolate line from draining Transferring fluid should ONLY be done when, <ul style="list-style-type: none"> o Personnel on pump o Personnel at manifold o Personnel at fluid destination point o All lines will be monitored per service provider BMP/SOP, including monitoring surface lines by personnel walking and inspecting the line while in use. All line volumes should be calculated before pumping and documented on JSA.
3	Interim Reclamation	Use only certified weed-free native seed in seed mixes, except for non-native plants that benefit wildlife. WPX Energy will use certified, weed free grass hay, straw, hay or other mulch materials used for the reseeded and reclamation of disturbed areas. Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents and openings.

Total: 3 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2106936	CORRESPONDENCE
2106937	PLAN OF DEVELOPMENT MAP
2106938	LOCATION PICTURES
2107013	FACILITIES LIST
400551346	FORM 2A SUBMITTED
400552016	SENSITIVE AREA DATA
400552017	NRCS MAP UNIT DESC
400552025	ACCESS ROAD MAP
400552028	CONST. LAYOUT DRAWINGS
400552029	HYDROLOGY MAP
400552031	LOCATION DRAWING
400552032	REFERENCE AREA MAP
400553447	SURFACE AGRMT/SURETY

Total Attach: 13 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Revised facilities section to include existing wells, separators, and production equipment per email from operator dated 06-17-14 listing facilities (attached as Facilities List); off hold.	6/17/2014 2:15:18 PM
Final Review	On Hold to discuss facilities	6/14/2014 9:26:36 AM
Permit	Final review completed.	6/11/2014 9:27:25 AM
LGD	pass, gdb	2/26/2014 2:29:50 PM
OGLA	Initiated/Completed OGLA Form 2A review on 02-18-14 by Dave Kubeczko; placed notification, fluid containment and spill/release BMP, frac tank overflow protection, three year use period, flowback to tanks, sediment control access road, dust control, other fluids secondary containment, and no free phase hydrocarbons COAs on Form 2A and sent email to operator on 02-18-14; passed by CPW on 02-12-14 with WMP acceptable; passed OGLA Form 2A review on 03-05-14 by Dave Kubeczko; notification, fluid containment and spill/release BMP, frac tank overflow protection, three year use period, flowback to tanks, sediment control access road, dust control, other fluids secondary containment, and no free phase hydrocarbons COAs; on 06-17-14, revised facilities section to include existing wells, separators, and production equipment per operator email dated 06-17-14.	2/18/2014 2:59:07 PM
DOW	This location is within the boundary of the approved WPX-CPW Wildlife Mitigation Plan. The BMPs were developed and agreed upon in the consultation and development of the Wildlife Mitigation Plan. CPW affirms that the BMPs and conditions of approval of the Wildlife Mitigation Plan suffice to address wildlife mitigation concerns. Approved: Jim Komatinsky 2-12-2014	2/12/2014 11:54:30 AM
Permit	Passed completeness.	2/12/2014 9:35:20 AM
Permit	Returned to DRAFT per operator request.	2/11/2014 8:59:10 AM

Total: 8 comment(s)