

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:

400661709

Date Received:

09/02/2014

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 323952

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:

**323952**

Expiration Date:

**11/04/2017**

☐ 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: \_\_\_\_\_ ☐ Gas Facility Surety ID: \_\_\_\_\_  
☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: RU Number: 14-6 Frac Pad  
County: GARFIELD  
QuarterQuarter: LOT 5 Section: 6 Township: 7S Range: 93W Meridian: 6 Ground Elevation: 7002  
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: 942 feet FSL from North or South section line  
519 feet FWL from East or West section line  
Latitude: 39.464106 Longitude: -107.824699  
PDOP Reading: 1.8 Date of Measurement: 11/12/2013  
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	1	Oil Tanks		Condensate Tanks	7	Water Tanks	7	Buried Produced Water Vaults	
Drilling Pits		Production Pits		Special Purpose Pits		Multi-Well Pits		Temporary Large Volume Above Ground Tanks	
Pump Jacks		Separators	1	Injection Pumps		Cavity Pumps			
Gas or Diesel Motors		Electric Motors		Electric Generators		Fuel Tanks		Gas Compressors	
Dehydrator Units		Vapor Recovery Unit		VOC Combustor		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:

This is a frac pad that will service the wells to be permitted on the RU 13-6.  
In the future this pad will serve as a tank pad for other pads in Flatiron Mesa.  
1 - 10" surface frac water supply line from the Beaver Creek Pit (Pit 11-7-793) to the RU 14-6 frac pad.  
1 - 6" buried flex steel produced water line that will tie into existing infrastructure along existing road south of the RU 14-6 pad.  
Flowline from the wellhead to the separator is 2" steel. The condensate and produced water flowlines from the separator to the condensate tanks and water tanks are 2" steel. All disturbance is within pad boundaries. All flowlines are buried 4' deep.

## CONSTRUCTION

Date planned to commence construction: 11/10/2014 Size of disturbed area during construction in acres: 3.20  
Estimated date that interim reclamation will begin: 09/02/2015 Size of location after interim reclamation in acres: 1.00  
Estimated post-construction ground elevation: 7002

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: \_\_\_\_\_

Is H<sub>2</sub>S anticipated? \_\_\_\_\_

Will salt sections be encountered during drilling: \_\_\_\_\_

Will salt based mud (>15,000 ppm Cl) be used? \_\_\_\_\_

Will oil based drilling fluids be used? \_\_\_\_\_

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: \_\_\_\_\_ Drilling Fluids Disposal Method: \_\_\_\_\_

Cutting Disposal: \_\_\_\_\_ Cuttings Disposal Method: \_\_\_\_\_

Other Disposal Description:

This request is for a frac pad.

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: Bureau of Land Management

Phone: \_\_\_\_\_

Address: 2300 River Frontage Road

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: Silt State: CO Zip: 81652

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: Yes

The right to construct this Oil and Gas Location is granted by: oil and gas lease

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: 5280 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 2135 Feet  
Above Ground Utility: 437 Feet  
Railroad: 5280 Feet  
Property Line: 519 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: 71—Villa Grove-Zoltay loams, 15 to 30 percent slopes

NRCS Map Unit Name: 66—Torriorthents-Camborthids-Rock outcrop complex, steep

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: 04/22/2014

List individual species: cheatgrass, wheatgrass, brome, 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: 260 Feet

water well: 5232 Feet

Estimated depth to ground water at Oil and Gas Location 40 Feet

Basis for depth to groundwater and sensitive area determination:

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 501-2640 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: Yes

## 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 2A application is for a frac pad. This pad will support frac operations for the RU 34-6 pad. The Surface Use Plan of Operation for the RU 34-6 pad has been submitted to BLM and is attached.

Reference Area Photos will be provided at a later time.

This location is in a Sensitive Area (see attached SAD). WPX will employ the following BMPs to support protection of surface and ground water: WPX will ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations and WPX will implement best management practices to contain any unintentional release of fluids.

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

Signed: \_\_\_\_\_ Date: 09/02/2014 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: 11/5/2014

### **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>Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface or permanent buried pipelines and following any reconfiguration of the pipeline network.</p> <p>Operator must routinely inspect the entire length of the surface pipeline to ensure integrity. Operator shall conduct daily inspections of surface poly pipeline routes for leaks during active transfer of fluids and implement best management practices to contain any unintentional release of fluids along all portions of the surface pipeline route where temporary pumps and other necessary equipment are located. Inspections shall be conducted by viewing the length of the pipeline; operator will endeavor to minimize surface disturbance during pipeline monitoring. The operator shall maintain records of inspections, findings and repairs, if necessary, for the life of the pipelines. In addition, pump stations along the surface poly or steel pipeline route will be continuously monitored when operating in order to swiftly respond to such a failure.</p> <p>Operator will implement BMPs necessary to mitigate a potential for a release of fluids to impact streams, intermittent streams, ditches, and drainage crossings. For these crossings: if poly pipe is used on the surface, operator will ensure appropriate containment by either installing over-sized pipe "sleeves" which extend the length of the crossing and beyond to a distance deemed adequate to capture (catchment basins) and/or divert any possible release of fluids and prevent fluids from reaching the stream or drainage; installing over-sized pipe "sleeves" which extend the length of the crossing and installing shut off valves on either side of crossing instead of catchment basins; or develop an alternative means for containment. For all other pipeline materials, operator will implement BMPs necessary to mitigate a potential for E&amp;P fluids to reach groundwater or flowing surface water.</p> <p>Operator will utilize, to the extent practical, all existing access and other public roads, and/or existing pipeline right-of-ways, when placing/routing the surface pipelines. This will reduce surface disturbance and fragmentation of wildlife habitat in the area.</p>
	<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>Potential odors associated with the completions process and/or with long term production operations must be controlled/mitigated.</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 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 after precipitation events), 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 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 reconstruction/regrading, pipeline testing, start of hydraulic stimulation operations, and start of flowback operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p> <p>Notify all public drinking water supply systems 7 days prior to start of hydraulic stimulation operations and start of flowback operations being conducted from this frac pad.</p> <p>The frac pad facility shall be in operation for no longer than 3 years.</p>

## Best Management Practices

No	BMP/COA Type	Description
1	Planning	<p>Maximize the utility of surface facilities by developing multiple wells from a single pad (directional drilling), and by co-locating multipurpose facilities (for example, well pads and compressors) to avoid unnecessary habitat fragmentation and disturbance of additional geographic areas.</p> <p>Locate roads outside of drainages where possible and outside of riparian habitat.</p> <p>Avoid constructing any road segment in the channel of an intermittent or perennial stream.</p> <p>Minimize the number, length, and footprint of oil and gas development roads.</p> <p>Use existing roads where possible.</p> <p>Combine utility infrastructure (gas, electric, and water) planning with roadway planning to avoid separate utility corridors.</p> <p>Combine and share roads to minimize habitat fragmentation.</p> <p>Where possible, consolidate pipeline and existing roadways, or roadways that are planned for development.</p> <p>Maximize use of remote completion/frac operations to minimize traffic.</p>
2	Construction	<p>Structures for perennial or intermittent stream channel crossings should be constructed using appropriately sized bridges or Culverts.</p> <p>Design road crossings of streams to allow fish passage at all flows and to minimize the generation of sediment.</p> <p>Design road crossings of streams at right angles to all riparian corridors and streams to minimize the area of disturbance to the extent possible.</p>
3	Drilling/Completion Operations	<p>Use centralized hydraulic fracturing operations.</p> <p>Install and maintain adequate measures to exclude all types of wildlife (e.g., big game, birds, and small rodents) from all fluid pits (e.g., fencing, netting, and other appropriate exclusion measures).</p> <p>Conduct well completions with drilling operations to limit the number of rig moves and traffic.</p>
4	Interim Reclamation	<p>Remove well pad and road surface materials that are incompatible with post-production land use and re-vegetation requirements.</p> <p>Use only certified weed-free native seed in seed mixes, except for non-native plants that benefit wildlife.</p> <p>WPX Energy will use certified, weed free grass hay, straw, hay or other mulch materials used for the reseeded and reclamation of disturbed areas.</p>

Total: 4 comment(s)



## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2107122	CORRESPONDENCE PIPELINE COA
2107138	CORRESPONDENCE
400661709	FORM 2A SUBMITTED
400677320	SURFACE PLAN
400677334	SENSITIVE AREA DATA
400677335	OTHER
400677337	LOCATION PICTURES
400677341	FACILITY LAYOUT DRAWING
400677347	ACCESS ROAD MAP
400677349	CONST. LAYOUT DRAWINGS
400677351	HYDROLOGY MAP
400677353	LOCATION DRAWING
400677354	REFERENCE AREA MAP
400677358	NRCS MAP UNIT DESC
400677386	NRCS MAP UNIT DESC
400677902	317B NOTIFICATION
400677904	317B NOTIFICATION
400677907	317B NOTIFICATION

Total Attach: 18 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	11/4/2014 4:19:37 PM
OGLA	Initiated/Completed OGLA Form 2A review on 10-20-14 by Dave Kubeczko; requested acknowledgement of 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, pipeline, and no free phase hydrocarbons COAs from operator on 10-20-14; received acknowledgement of COAs from operator on 10-22-14; passed by CPW on 09-08-14 with WMP acceptable; passed OGLA Form 2A review on 11-04-14 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, pipeline, and no free phase hydrocarbons COAs.	10/20/2014 9:22:19 AM
Permit	Ready to pass.	10/17/2014 11:25:43 AM
LGD	Pass-GDB: Please note any location with greater than 5,000 barrels of total storage capacity (pits/tanks) would require a Garfield County land use change permit.	9/24/2014 4:06:48 PM
DOW	This location is within the South of the River Wildlife Mitigation Plan (WMP) agreed upon by the operator and Colorado Parks and Wildlife. The BMPs contained within the WMP (especially stream protection BMPs) apply to this location and are adequate to address concerns relating to wildlife and cutthroat trout restricted surface occupancy areas.  By: Taylor Elm, 9/8/2014, 16:35	9/8/2014 4:37:36 PM
Permit	Passed completeness. Changed SWSW to LOT 5 and marked location as Amended 2A #323952. Previously marked as new location.	9/5/2014 2:39:48 PM

Total: 6 comment(s)