

FORM  
2A

Rev  
04/01

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:

400254799

Date Received:

03/01/2012

Oil and Gas Location Assessment

☐ New Location

☒ Amend Existing Location Location#: 333109

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this 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. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

**333109**

Expiration Date:

**05/09/2015**

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

1. 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.

2. Operator

Operator Number: 96850

Name: WPX ENERGY ROCKY MOUNTAIN LLC

Address: 1001 17TH STREET - SUITE #1200

City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Greg Davis

Phone: (303) 606-4071

Fax: (303) 629-8268

email: greg.j.davis@williams.com

4. Location Identification:

Name: Eaton

Number: GM 41-4

County: GARFIELD

QuarterQuarter: LOT 1 Section: 4 Township: 7S Range: 96W Meridian: 6 Ground Elevation: 5450

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 689 feet FNL, from North or South section line, and 896 feet FEL, from East or West section line.

Latitude: 39.471386 Longitude: -108.107231 PDOP Reading: 1.7 Date of Measurement: 09/30/2011

Instrument Operator's Name: Robert Kay

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/>	Wells: <input type="text" value="3"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="text" value="2"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="3"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="checkbox"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	
Other: _____				

6. Construction:

Date planned to commence construction: 06/15/2012 Size of disturbed area during construction in acres: 4.27  
Estimated date that interim reclamation will begin: 09/15/2012 Size of location after interim reclamation in acres: 1.32  
Estimated post-construction ground elevation: 5450 Will a closed loop system be used for drilling fluids: Yes ☒  
Will salt sections be encountered during drilling: Yes ☐ No ☒ Is H2S anticipated? Yes ☐ No ☒  
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes ☐ No ☒  
Mud disposal: Offsite ☐ Onsite ☒ Method: Land Farming ☐ Land Spreading ☐ Disposal Facility ☐  
Other: Re-use and evaporation

## 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: \_\_\_\_\_  
Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian  
Mineral Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian  
The surface owner is: ☐ the mineral owner ☒ committed to an oil and gas lease  
☐ is the executer of the oil and gas lease ☒ the applicant  
The right to construct the location is granted by: ☐ oil and gas lease ☐ Surface Use Agreement ☐ Right of Way  
☒ applicant is owner  
Surface damage assurance if no agreement is in place: ☐ \$2000 ☐ \$5000 ☐ Blanket Surety ID \_\_\_\_\_

## 8. Reclamation Financial Assurance:

☒ Well Surety ID: 20030107 ☐ Gas Facility Surety ID: \_\_\_\_\_ ☐ Waste Mgnt. Surety ID: \_\_\_\_\_

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 2805, public road: 4182, above ground utilit: 1930  
, railroad: 4191, property line: 399

## 10. 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

## 11. 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

## 12. Soils:

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.gov/> 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: 47 Nihill Channery Loam, 6 to 25% slopes

NRCS Map Unit Name: \_\_\_\_\_  
NRCS Map Unit Name: \_\_\_\_\_

### 13. 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: 02/05/2012  
List individual species: Sage, Juniper, Pinyon

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): \_\_\_\_\_

### 14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: ☐ No ☒ Yes Was a Rule 901.e. Sensitive Areas Determination performed: ☐ No ☒ Yes  
Distance (in feet) to nearest surface water: 220, water well: 60, depth to ground water: 31  
Is the location in a riparian area: ☒ No ☐ Yes Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes  
Is the location within a Rule 317B Surface Water Supply Area buffer zone:  
☒ No ☐ 0-300 ft. zone ☐ 301-500 ft. zone ☐ 501-2640 ft. 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: ☐ No ☐ Yes

### 15. Comments:

A Sensitive Area Determination has not yet been performed for this location, however, prior to the submittal of a form 15 for the flare pit (special purpose pit) shown on the plats, a Sensitive Area Determination will be performed. Regardless of the result of the Sensitive Area Determination, Williams will employ the following BMPs to support protection of surface and ground water: • Williams will ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations. • Williams will implement best management practices to contain any unintentional release of fluids. • Either a lined drilling pit or closed loop system will be implemented.

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

Signed: \_\_\_\_\_ Date: 03/01/2012 Email: greg.j.davis@williams.com  
Print Name: Greg Davis Title: Supervisor Permits

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: 5/10/2012

**CONDITIONS OF  
APPROVAL, IF ANY:**

**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.**

**SITE SPECIFIC COAs:**

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; 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 well pad location will be stabilized, inspected at regular intervals, and maintained in good condition..

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines or buried permanent pipelines.

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 pit 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 with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, if drill cuttings are to remain/disposed of onsite, they must also meet the applicable standards of table 910-1.

Berms or other containment devices shall be constructed to be sufficiently impervious to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.

A closed loop system must be implemented during drilling.

Due to the steep slopes to the southeast, this location is in an area of moderate to high run off/run on potential; therefore the pad shall be constructed as quickly as possible and appropriate BMPs need to be in place both during, after well pad construction completion, as well as during all drilling and well completion operations. Standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater runoff.

**Attachment Check List**

Att Doc Num	Name
2034190	CORRESPONDENCE
400254799	FORM 2A SUBMITTED
400254824	LOCATION PICTURES
400254826	LOCATION DRAWING
400254827	HYDROLOGY MAP
400254828	ACCESS ROAD MAP
400254829	REFERENCE AREA MAP
400254830	NRCS MAP UNIT DESC
400254832	CONST. LAYOUT DRAWINGS
400254833	PROPOSED BMPs
400254834	SENSITIVE AREA DATA
400254835	OTHER
400254838	MULTI-WELL PLAN

Total Attach: 13 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	off hold--APD's for this pad now complete. LGD passed; pub. comments waived. Final Review--passed.	5/7/2012 1:27:47 PM
Permit	Confirmed amended 2A is expansion of pad for Loc ID #333109.	5/7/2012 11:57:57 AM
Permit	on hold by permitting; waiting on exception loc. request for horizontal lateral.	4/3/2012 7:42:52 AM
Permit	checked surf. owner is applicant per oper. Put APD #400254576 for horizontal lateral on hold--not legal loc. Operator advised they will seek exc. location.	3/22/2012 3:16:44 PM
OGLA	Initiated/Completed OGLA Form 2A review on 03-17-12 by Dave Kubeczko; placed fluid containment, spill/release BMPs, flowback to tanks, tank berming, closed loop, and cuttings low moisture content COAs on 03-17-12; passed by CPW on 03-05-12 with operator submitted BMPs (with permit application) acceptable; passed OGLA Form 2A review on 03-26-12 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks, tank berming, closed loop, and cuttings low moisture content COAs.	3/17/2012 1:59:03 PM
LGD	Passed	3/5/2012 9:40:34 AM
DOW	WPX (former Williams) well site GM 41-4 is located on private land about 4330 meters NW of Parachute. Initial plans call for 3 wells and a closed loop drilling system, though plans call for a total of 10-14 wells, and a separate larger frac pad nearby. The project area has no RSOs, but falls within a Mule Deer critical range and Elk Winter Concentration area, both sensitive wildlife habitats. WPX included a list of BMPs which address many of CPWs desires to minimize impact to wildlife and wildlife habitat, though we would like to ensure that WPX adheres to COGCC 1298 Requirements regarding EP Waste Management (series 900), Reclamation Regulations (series 1000), and Wildlife Requirements (series 1200). The CPW would like to see aggressive reclamation, though prefer that WPX only use natural forage seeds (no non-native), and include several native shrubs and forbs, to provide greater benefit to wildlife.  WPXs planned use of a closed loop system will help minimize impacts, and their planned construction and reclamation dates (15 June - Sep) will prevent impact to the sensitive winter season for mule deer and elk.	3/5/2012 7:56:10 AM

Total: 7 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Drilling/Completion Operations	<p>DRILLING/COMPLETIONS BMP's 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>

Construction	<p>CONSTRUCTION BMP's</p> <p>Close and reclaim roads not necessary for development, including removing all bridges and culverts and recontouring/reclaiming all stream crossings.</p> <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>
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Planning	<p>PLANNING BMP's</p> <p>Share/consolidate corridors for pipeline ROWs to the maximum extent possible.</p> <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>Minimize newly planned activities and operations within 300 feet of the ordinary high water mark of any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river.</p> <p>Locate roads outside of drainages where possible and outside of riparian habitat.</p> <p>Avoid new surface disturbance and placing new facilities in key wildlife habitats in consultation with CDOW.</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>Place roads to avoid obstructions to migratory routes for wildlife, and to avoid displacement of wildlife from public to private lands.</p> <p>Design roads with visual and auditory buffers or screens (e.g., topographic barriers, vegetation, and distance).</p> <p>Accelerate development under a “clustered-development concept” on a site-specific basis where WPX Energy has a 100% mineral interest or control of mineral development</p> <p>Maximize the use of directional drilling to minimize habitat loss/fragmentation</p> <p>Maximize use of long-term centralized tank batteries to minimize traffic</p> <p>Maximize use of remote completion/frac operations to minimize traffic</p> <p>Maximize use of remote telemetry for well monitoring to minimize traffic</p> <p>Phase and concentrate development activities, so that large areas of undisturbed habitat for wildlife remain.</p> <p>Maintain undeveloped areas within development boundaries sufficient to allow wildlife to persist within development boundaries during all phases of construction, drilling, and production.</p> <p>Minimize the duration of development and avoid repeated or chronic disturbance of developed areas. Complete all anticipated drilling within a phased, concentrated, development area during a single, uninterrupted time period.</p> <p>Restrict oil and gas activities as practical during critical seasonal periods</p>
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Site Specific	<p>. A Sensitive Area Determination has not yet been performed for this location, however, prior to the submittal of a form 15 for the flare pit (special purpose pit) shown on the plats, a Sensitive Area Determination will be performed. Regardless of the result of the Sensitive Area Determination, Williams will employ the following BMPs to support protection of surface and ground water:</p> <ul style="list-style-type: none"> <li>• Williams will ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.</li> <li>• Williams will implement best management practices to contain any unintentional release of fluids.</li> <li>• Either a lined drilling pit or closed loop system will be implemented</li> </ul>
Interim Reclamation	<p>PRODUCTION/RECLAMATION BMP's</p> <p>Restore both form and function of impacted wetlands and riparian areas and mitigate erosion.</p> <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 reseeding and reclamation of disturbed areas.</p> <p>Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents and openings.</p> <p>Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multi-function contractors.</p> <p>Avoid dust suppression activities within 300 feet of the ordinary high water mark of any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river where possible.</p> <p>Bore pipelines that cross perennial streams</p> <p>Install and use locked gates or other means to prevent unauthorized vehicular travel on roads and facility rights-of-way.</p>

Total: 5 comment(s)