

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:

400475463

Date Received:

03/24/2014

Oil and Gas Location Assessment

☒ New Location    ☐ Refile    ☐ Amend Existing Location    Location#: \_\_\_\_\_

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:

Expiration Date:

☒ 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: Hicks    Number: PA 24-6

County: GARFIELD

QuarterQuarter: SESW    Section: 6    Township: 7S    Range: 95W    Meridian: 6    Ground Elevation: 5136

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: 793 feet FSL from North or South section line

2224 feet FWL from East or West section line

Latitude: 39.461965    Longitude: -108.041382

PDOP Reading: 3.2    Date of Measurement: 06/19/2008

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	<u>8</u>	Oil Tanks	<u>      </u>	Condensate Tanks	<u>2</u>	Water Tanks	<u>2</u>	Buried Produced Water Vaults	<u>      </u>
Drilling Pits	<u>      </u>	Production Pits	<u>      </u>	Special Purpose Pits	<u>      </u>	Multi-Well Pits	<u>      </u>	Temporary Large Volume Above Ground Tanks	<u>      </u>
Pump Jacks	<u>      </u>	Separators	<u>8</u>	Injection Pumps	<u>      </u>	Cavity Pumps	<u>      </u>		
Gas or Diesel Motors	<u>      </u>	Electric Motors	<u>      </u>	Electric Generators	<u>      </u>	Fuel Tanks	<u>      </u>	Gas Compressors	<u>      </u>
Dehydrator Units	<u>      </u>	Vapor Recovery Unit	<u>      </u>	VOC Combustor	<u>1</u>	Flare	<u>      </u>	LACT Unit	<u>      </u>
								Pigging Station	<u>      </u>

## OTHER FACILITIES

Other Facility Type

Number

<input type="text"/>	<input type="text"/>
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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

1 - 8" buried steel gas line 198.34ft to tie into existing gas line.  
1 - 4" buried flex steel produced water line 30.01ft to tie into existing water line.

## CONSTRUCTION

Date planned to commence construction: 05/01/2014 Size of disturbed area during construction in acres: 6.20  
Estimated date that interim reclamation will begin: 05/01/2015 Size of location after interim reclamation in acres: 0.77  
Estimated post-construction ground elevation: 5135

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H<sub>2</sub>S 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: OFFSITE Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: ONSITE Cuttings Disposal Method: Cuttings trench

Other Disposal Description:

Spent drlg fluids are treated with a de-watering unit. Separated mud solids are disposed with the drill cuttings at a well pad location, or at an approved disposal trench. Separated water is re-used for drilling, or disposed at a permitted inj. well.

Beneficial reuse or land application plan submitted? No

Reuse Facility ID:                      or Document Number:                     

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

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Barry J. Hicks

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

Address: 780 26 1/2 Road

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

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

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

City: Grand Junction State: CO Zip: 81506

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: 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: 350 Feet  
Building Unit: 434 Feet  
High Occupancy Building Unit: 2960 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 94 Feet  
Above Ground Utility: 254 Feet  
Railroad: 280 Feet  
Property Line: 7 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: 09/27/2013

## 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: Arvada loam, 1 - 6% slopes; Map Unit # 3

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: 05/01/2013

List individual species: \_\_\_\_\_

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: 1366 Feet

water well: 632 Feet

Estimated depth to ground water at Oil and Gas Location 50 Feet

Basis for depth to groundwater and sensitive area determination:

Sensitive Area Determination is derived from onsite review data. (See attached "Sensitive Area Determination Check List") Depth of groundwater estimated from review of surrounding wells from state database.

Attached find Rule 317B Notification Letter.

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

Request for exception to Rule 604.a. is attached.  
Request for exception to Rule 603.a.(2) is attached.

Rule 317B Notification letter is attached.  
Rule 305.a. Notification of Intent to Conduct Oil and Gas operations is attached.

Reference area pictures will be taken at a later date.

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

Signed: \_\_\_\_\_ Date: 03/24/2014 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: \_\_\_\_\_

### **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**

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### **Best Management Practices**

#### **No BMP/COA Type**

#### **Description**

1	Planning	This pad was planned in close cooperation with the landowner in order to take advantage of using an area that is already planned to be used for industrial purposes. 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. Maximize the use of directional drilling to minimize habitat loss/fragmentation. Maximize use of remote telemetry for well monitoring to minimize traffic.
2	Pre-Construction	Strip and segregate topsoil prior to construction. Appropriately configure topsoil piles and immediately seed to control erosion, prevent weed establishment and maintain soil microbial activity.
3	Traffic control	The rig traffic will take Hwy 6 east from CR 215 near the southern off-ramp from I-70. From Hwy 6, the rig will take a short state road south that leads to the pad. Pilot cars, in either case, will be used to get the larger rig traffic to location.  Applicable County and state permits will be acquired 1-2 weeks prior to moving rig on location.
4	General Housekeeping	All garbage and trash will be stored in enclosed trash containers and removed and deposited in an approved sanitary landfill within one week following termination of drilling operations. No garbage or trash will be disposed of in the cuttings management area. The well site and access road will be kept free of trash and debris at all times.
5	Wildlife	Use only certified weed-free native seed in seed mixes, except for non-native plants that benefit wildlife. Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents and openings. Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multi-function contractors. By using an existing pad we have minimized the number, size and distribution of well pads and locate pads along existing roads where possible. Water for completions operations will be piped from an existing water pit which will reduce truck traffic.

6	Storm Water/Erosion Control	On-site and offsite erosion control, re-vegetation of disturbed areas and source and storage of topsoil BMP's will be installed prior to, during and immediately following construction as practicable with consideration given to safety, access, and ground conditions at the time of construction. Due to the nature of the topography at various sites, any number of BMP combinations may be utilized at any phase of the project. Constant efforts will be employed to limit the extent of vegetative disturbance at the time of soil exposure during all construction activities and structural BMP implementation. Stormwater is addressed under a field-wide CDPHE plan/permit.
7	Material Handling and Spill Prevention	Automated high tank alarms are installed on tanks along with emergency shut down systems. In addition to 2-3 times/week onsite inspections by pumpers they also have routine quarterly checklists that are filled out and kept on file regarding dump line/flow line pressures and also a checklist done for everything regarding compliance at the wellhead and production equipment. Pallets and materials (drilling and production materials and supplies) that are stored on the pallets are kept > 25' from wellheads during production and drilling operations.
8	Dust control	Fugitive dust control will be implemented during all phases of operations on an as-needed basis.
9	Construction	Salvage topsoil from all road construction and other rights-of-way and re-apply during interim and final reclamation.
10	Noise mitigation	Background noise: Hwy I-70 is approximately <300' from location. Plumb dump lines into tanks to muffle sound. Rubber cushions in lubricators are used to muffle sound for plunger lift.
11	Emissions mitigation	Combusters and we use API tanks with thief hatches and enardo valves and pipe everything to the combustion unit.
12	Odor mitigation	WPX uses Combusters and API tanks with thief hatches and enardo valves and pipe everything to the combustion unit.
13	Drilling/Completion Operations	Water for completions operations will be piped from an existing water pit which will reduce truck traffic. Conduct well completions with drilling operations to limit the number of rig moves and traffic.  1. The flowlines we use are 2" flowline capable of 6bbl/min flow rates per line, The psi rating is 15,000psi and the manifolds are 3" 15,000psi; The primary separator is a 4 phase separator capable of 90 MMCF/day and 13,956 bbls per day with a 1.25" discharge orifice; The sand trap intakes and outputs are limited by the 2" flowlines ran to them. We have a bullet tank AKA a pee tank that is capable of moving 23 MMCF/day with 13,956 bbls/day this tank is used for catching fugitive gas which is burned via flare or combuster. Water from the bullet tank is sent to the Hydrocarbon Recovery Tank where it is allowed to go atmospheric and be flashed. 2. The Flare stack we are using is rated for 98 MMCF/day they are built to exceed Primary separators gas capacity(90MMCF/day) it has propane to insure a pilot is ignited at all times. The largest well in the area is our Niobrara with an IP of 16 MMCF/day the average Mesa Verde is choke to flow around 1-1.2MMCF/day if they have the bottomhole psi to achieve that. 3. Proven production can be demonstrated with the following pads GM 44-1, SG 18-23, GV 8-14 and GM 313-12.

14	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 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>As soon as possible after (within 6 mos) well is placed on first sales perform interim reclamation on all disturbed areas not needed for active support of production operations or areas intended to keep unreclaimed per the landowner SUA.</p> <p>Seed during appropriate season to increase likelihood of reclamation success.</p> <p>Conduct seeding in a manner that ensures that seedbed preparation and planting techniques are targeted toward the varied needs of grasses, forbs and shrubs (e.g., seed forbs and shrubs separately from grasses, broadcast big sagebrush but drill grasses, etc.).</p>
15	Final Reclamation	<p>WPX will complete final reclamation activities so that seeding occurs during the first optimal season following plugging and abandonment of oil and gas wells.</p>

Total: 15 comment(s)

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400475463	FORM 2A SUBMITTED
400499685	NRCS MAP UNIT DESC
400499693	SENSITIVE AREA DATA
400501924	ACCESS ROAD MAP
400501926	HYDROLOGY MAP
400501932	REFERENCE AREA MAP
400502030	317B NOTIFICATION
400529170	SURFACE AGRMT/SURETY
400575972	MULTI-WELL PLAN
400575981	CONST. LAYOUT DRAWINGS
400575983	LOCATION DRAWING
400575985	OTHER
400575986	LOCATION PICTURES
400578172	EXCEPTION LOC REQUEST
400578457	FACILITY LAYOUT DRAWING
400578694	EXCEPTION LOC WAIVERS
400578701	30 DAY NOTICE LETTER
400579847	WASTE MANAGEMENT PLAN

Total Attach: 18 Files



## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	1) All wells are on multi-well plan 2) Request and waivers are separated. 3) Operator added BMPs 4) Facility Layout Drawing attached. 5) Operator checked 604.b.(2) box 6) Operator attached pre-ap notification letter. Returned to draft again 7) 604.a.1.(A) box should be unchecked. Not in an UMA. 8) Missing Waste Management Plan 9) Reference Area Map attached, but no pictures. Either attach pictures or make comment that pictures will be taken at a later date.	3/27/2014 9:44:01 AM
Permit	Returned to draft: 1) MWP does not show PA 534-6 well plot. 2) Separate exception location waivers from exception location request documents. 3) Requires exception zone mitigation BMP's. 4) Requires facility layout drawing. 5) Check exception box for 604.b.(2). 6) Pre-app certification letter required, not copy of letter sent to BU owner. State that copies of certified mail receipts are on file if required.	3/25/2014 8:19:00 AM

Total: 2 comment(s)