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

Oil and Gas Location Assessment

Document Number: 400661753
()
Date Received: 10/10/2014

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 324106

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: **324106**
Expiration Date: **11/13/2017**

☒ 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: 13-6
County: GARFIELD

QuarterQuarter: NWSW Section: 6 Township: 7S Range: 93W Meridian: 6 Ground Elevation: 6985

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: 1996 feet FSL from North or South section line
499 feet FWL from East or West section line

Latitude: 39.467243 Longitude: -107.824818

PDOP Reading: 2.9 Date of Measurement: 01/15/2014

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 #
Well Site is served by Production Facilities		400661709

FACILITIES

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

Wells	22	Oil Tanks*		Condensate Tanks*	0	Water Tanks*	1	Buried Produced Water Vaults*	
Drilling Pits		Production Pits*		Special Purpose Pits		Multi-Well Pits*		Modular Large Volume Tanks	
Pump Jacks		Separators*	22	Injection Pumps*		Cavity Pumps*		Gas Compressors*	
Gas or Diesel Motors*		Electric Motors		Electric Generators*		Fuel Tanks*		LACT Unit*	
Dehydrator Units*		Vapor Recovery Unit*		VOC Combustor*		Flare*		Pigging Station*	

OTHER FACILITIES*

Other Facility Type	Number

*Those facilities indicated by an asterisk (*) shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

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

1- 10” surface frac water supply line will run from the RU 11-7 completions pit to the RU 14-6 pad.
3-4.5” temporary steel frac lines will run from the RU 14-6 pad to the RU 13-6 pad.
1 - 8” gas line (Summit gas).
1-2” condensate line that will tie into the tanks proposed on the RU 14-6 Tank Pad .
1-6” flex steel produced water line that will tie into the tanks proposed on the RU 14-6 Tank Pad.
Tanks will be on the RU 14-6 tank pad which has had it's own Form 2A submitted.
Flowlines from the wellheads to the separators will be 2" steel. The produced water flowline from the separators to the one (1) produced water tank will be 2" steel. All disturbance will be within pad boundariesand exist pipeline right-of-ways. All flowlines will be buried 4’ deep.

CONSTRUCTION

Date planned to commence construction: 01/05/2015 Size of disturbed area during construction in acres: 6.13

Estimated date that interim reclamation will begin: 07/01/2016 Size of location after interim reclamation in acres: 0.70

Estimated post-construction ground elevation: 6985

DRILLING PROGRAM

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

Is H_2S 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: Other

Other Disposal Description:

Cuttings Management Area

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):	Existing Drill Pad
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):	Existing Drill Pad
Subdivided:	☐ Industrial	☐ Commercial	☐ Residential		

CULTURAL DISTANCE INFORMATION

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	4546 Feet	4768 Feet
Building Unit:	4546 Feet	4768 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	2196 Feet	2231 Feet
Above Ground Utility:	1479 Feet	1137 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	498 Feet	572 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.
-For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

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: _____

FOR MULTI-WELL PADS AND PRODUCTION FACILTIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- [ ] Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*

- [ ] By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

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 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: 67 - Torriorthents - Rock outcrop complex, steep

NRCS Map Unit Name: 71 - Villa Grove - Zoltay loams, 15 to 30 percent slopes

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 [X] No [ ]

Plant species from: [ ] NRCS or, [X] field observation Date of observation: 04/23/2014

List individual species: Sage, Pinyon, Juniper, wheatgrass, brome

Check all plant communities that exist in the disturbed area.

- [ ] Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- [X] Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- [X] Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- [ ] Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- [ ] Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- [X] 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 [X] Yes

Distance to nearest

downgradient surface water feature: 351 Feet

water well: 4317 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: [X] No [ ] Yes

Was an Army Corps of Engineers Section 404 permit filed [X] No [ ] Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer zone: 501-2640

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 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. WPX will implement best management practices to contain any unintentional release of fluids; either a lined drilling pit or closed loop system will be implemented.

Reference area photos will be submitted at a later date.

This pad will be completed using the RU 14-6 frac pad. The ancillary facility plat for the RU 14-6 frac pad is attached for COGCC reference. Also, for COGCC reference find the SUPO for the RU 13-6.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.
Signed: _____ Date: 10/10/2014 Email: reed.haddock@wpxenergy.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: Matthew Lee **Director of COGCC** Date: 11/14/2014

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
	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. 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. 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&P fluids to reach groundwater or flowing surface water. 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.
	The moisture content of drill cuttings managed onsite shall be kept as low as practicable to prevent accumulation of liquids greater than de minimis amounts. After drilling and completion operations have been completed, the drill cuttings that will remain on the well pad location (cuttings management area, the cut portion of the pad, cuttings trench, dry cuttings drilling pit), must meet the applicable standards of Table 910-1. After the drill cuttings have been amended (if necessary) and placed on the well pad, sampling frequency of the drill cuttings (to be determined by the operator) shall be representative of the material left on location. No offsite disposal of cuttings to another oil and gas location shall occur without prior approval of a Waste Management Plan (submitted via a Form 4 Sundry Notice) specifying disposal location and waste characterization method. Commercial disposal of drill cuttings will only require notification to COGCC via a Form 4 Sundry Notice. If the well(s) is(are) to be hydraulically stimulated, 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. Potential odors associated with the completions process and/or with long term production operations must be controlled/mitigated.

	Operator must ensure secondary containment for any volume of fluids contained at tank site during 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 (at least every 14 days and after precipitation events), and maintained in good condition. 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. 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. Berms or other containment devices shall be constructed to be sufficiently impervious (corrugated steel with poly liner) to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.
	Notify the COGCC 48 hours prior to start of pad reconstruction/regarding, rig mobilization, spud, 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).

Best Management Practices

No	BMP/COA Type	Description
1	Planning	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. 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. Locate roads outside of drainages where possible and outside of riparian habitat. Avoid constructing any road segment in the channel of an intermittent or perennial stream. Combine utility infrastructure (gas, electric, and water) planning with roadway planning to avoid separate utility corridors. Combine and share roads to minimize habitat fragmentation. Where possible, consolidate pipeline and existing roadways, or roadways that are planned for development. Maximize the use of directional drilling to minimize habitat loss/fragmentation. Maximize use of long-term centralized tank batteries to minimize traffic. Maximize use of remote completion/frac operations to minimize traffic. Maximize use of remote telemetry for well monitoring to minimize traffic. Phase and concentrate development activities, so that large areas of undisturbed habitat for wildlife remain. Maintain undeveloped areas within development boundaries sufficient to allow wildlife to persist within development boundaries during all phases of construction, drilling, and production. 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.
2	Construction	Structures for perennial or intermittent stream channel crossings should be constructed using appropriately sized bridges or culverts. Construct retention basins and ponds that benefit wildlife.
3	Drilling/Completion Operations	Use centralized hydraulic fracturing operations. Conduct well completions with drilling operations to limit the number of rig moves and traffic.
4	Interim Reclamation	Remove well pad and road surface materials that are incompatible with post-production land use and re-vegetation requirements. 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 reseeding and reclamation of disturbed areas. 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. Install and use locked gates or other means to prevent unauthorized vehicular travel on roads and facility rights-of-way.

Total: 4 comment(s)

Attachment Check List

Att Doc Num	Name
2107122	CORRESPONDENCE PIPELINE COA
2107149	CORRESPONDENCE
400661753	FORM 2A SUBMITTED
400704988	ACCESS ROAD MAP
400705004	CONST. LAYOUT DRAWINGS
400705007	HYDROLOGY MAP
400705010	LOCATION DRAWING
400705013	REFERENCE AREA MAP
400705015	PROPOSED BMPS
400705016	FACILITY LAYOUT DRAWING
400705018	NRCS MAP UNIT DESC
400705021	NRCS MAP UNIT DESC
400705023	MULTI-WELL PLAN
400705024	LOCATION PICTURES
400705031	OTHER
400705036	SENSITIVE AREA DATA
400705040	OTHER
400705074	OIL & GAS LEASE
400705088	SURFACE AGRMT/SURETY

Total Attach: 19 Files

General Comments

User Group	Comment	Comment Date
Permit	Corrected typo in related docs From 400702206 (Mahalo #1) to 400702203. Final review complete.	11/12/2014 10:02:37 AM
OGLA	Initiated/Completed OGLA Form 2A review on 10-21-14 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, flowback to tanks only, cuttings low moisture content, notification, tank berming, sediment control, dust control, odor control, and pipeline testing COAs from operator on 10-21 -14; received acknowledgement of COAs from operator on 10-22-14; no CPW; passed OGLA Form 2A review on 11-05-14 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks only, cuttings low moisture content, notification, tank berming, sediment control, dust control, odor control, and pipeline testing COAs.	10/21/2014 3:37:04 PM
Permit	Passed Completeness	10/14/2014 10:46:10 AM

Total: 3 comment(s)