

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:

400673596

Date Received:

10/01/2014

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: 334956

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:

334956

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: GM Number: 42-11 Frac Pad
 County: GARFIELD
 Quarter: SENE Section: 11 Township: 7S Range: 96W Meridian: 6 Ground Elevation: 5478

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: 2140 feet FNL from North or South section line
 1149 feet FEL from East or West section line
 Latitude: 39.453755 Longitude: -108.072269
 PDOP Reading: 1.9 Date of Measurement: 08/19/2014
 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 #**

Production Facilities Location serves Well(s)

400673597

FACILITIES

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

Wells	<u>4</u>	Oil Tanks	<u>1</u>	Condensate Tanks	<u>1</u>	Water Tanks	<u>1</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> </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> </u>	Flare	<u> </u>	LACT Unit	<u> </u>
								Pigging Station	<u> </u>

OTHER FACILITIES

Other Facility Type

Number

Other Facility Type	Number

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

3-4.5" steel temporary surface water supply lines will tie in to existing infrastructure and run south to frac pad following existing gas lines.
3-4.5" temporary surface frac lines will run from frac pad to drill pad along existing road.
This pad will be used as a frac pad for the GR 23-11V drill pad.
There will be 20 temporary frac tanks on location.
Flowlines from the wellheads to the separators are 2" steel. The condensate, oil, and produced water flowlines from the separators to the condensate, oil, 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: 3.93

Estimated date that interim reclamation will begin: 10/05/2015 Size of location after interim reclamation in acres: 1.00

Estimated post-construction ground elevation: 5479

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids:

Is H₂S 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

Other Disposal Description:

A portable dewatering unit will be needed either on the drill pad GR 23-11V or on the GM 42-11 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: 3464 Feet
Building Unit: 3464 Feet
High Occupancy Building Unit: 5242 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 3087 Feet
Above Ground Utility: 3087 Feet
Railroad: 5250 Feet
Property Line: 600 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 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: 66-Torriorthents-Camborthids-Rock outcrop complex, steep

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: 08/29/2014

List individual species: Four-winged saltbush, Wyoming sagebrush, Utah juniper, Saline wildrye, Indian ricegrass

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: 264 Feet

water well: 2388 Feet

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

Basis for depth to groundwater and sensitive area determination:

See 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 permit application is for a frac pad.

No cultural distance information is provided since there is no planned production equipment or wellheads for this pad.

The Plan of Development and the SUPO for the GR 23-11V pad is attached to this application since this frac pad is supporting completion operations for the GR 23-11V pad. They are both labeled "Other" under the attachments.

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

Signed: _____ Date: 10/01/2014 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&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>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	<p>Minimize the number, length, and footprint of oil and gas development roads. Use existing roads where possible. Where possible, consolidate pipeline and existing roadways, or roadways that are planned for development. Maximize use of remote completion/frac operations to minimize traffic.</p>
2	Drilling/Completion Operations	<p>Use centralized hydraulic fracturing operations. Conduct well completions with drilling operations to limit the number of rig moves and traffic.</p>
3	Interim Reclamation	<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. Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents and openings.</p>

Total: 3 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2107122	CORRESPONDENCE PIPELINE COA
2107139	CORRESPONDENCE
400673596	FORM 2A SUBMITTED
400683206	ACCESS ROAD MAP
400683207	CONST. LAYOUT DRAWINGS
400683208	HYDROLOGY MAP
400683209	LOCATION DRAWING
400683210	REFERENCE AREA MAP
400683211	REFERENCE AREA PICTURES
400683212	FACILITY LAYOUT DRAWING
400683213	LOCATION PICTURES
400683214	NRCS MAP UNIT DESC
400683215	SENSITIVE AREA DATA
400697586	OTHER
400699630	SURFACE PLAN
400699669	FORM 2A SUBMITTED
400700059	FORM 2A SUBMITTED

Total Attach: 17 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	11/4/2014 4:24:51 PM
LGD	Pass, KHW. Remote frac locations do not require county permit.	10/21/2014 11:32:29 AM
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; added cultural distances - Building/Building Unit 3463', HOBU 5242', DOAA 5280', Public Road 3087', Above Ground Utility 3087', Railroad 5250', Property Line 600'; no CPW; 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 11:05:49 AM
Permit	Passed completeness. No cultural distance information is provided since there is no planned production equipment or wellheads for this pad.	10/2/2014 1:29:06 PM
Permit	Return to draft. Missing all cultural distances.	10/2/2014 9:58:52 AM
Permit	Returned to draft at oper.'s request.	10/1/2014 3:28:39 PM

Total: 6 comment(s)