

**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:

400466268

Date Received:

10/01/2013

Oil and Gas Location Assessment☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 334722

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:

334722

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: Greg Davis

Phone: (303) 606-4071

Fax: (303) 629-8268

email: greg.j.davis@wpxenergy.com

RECLAMATION FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID: 20030107 ☐ Gas Facility Surety ID: _____
- ☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Boruch Number: GM 24-12

County: GARFIELD

QuarterQuarter: SWSW Section: 12 Township: 7S Range: 96W Meridian: 6 Ground Elevation: 5141

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: 299 feet FSL from North or South section line

969 feet FWL from East or West section line

Latitude: 39.445687 Longitude: -108.064700

PDOP Reading: 3.5 Date of Measurement: 11/01/2010

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>21</u>	Oil Tanks	<u>3</u>	Condensate Tanks	<u> </u>	Water Tanks	<u>3</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>21</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

Remote Frac GM 313-12

1

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

#	Lines	Diameter	Contents	Material	Length	Tie In Point		Type of line	Comments
1	10"	Gas	Steel	1923.68ft		Existing gas line	Buried		
0									Produced Water
2	10"	Frac Water	Poly	3095.17ft	Proposed frac water line	Buried frac water	2 line for approx 800'		
3	4.5"	Frac Water	Flex Steel	1846.57ft	Na		Temporary Surface Line		

*See attached POD Map for details

CONSTRUCTION

Date planned to commence construction: 12/02/2013 Size of disturbed area during construction in acres: 4.70

Estimated date that interim reclamation will begin: 07/01/2014 Size of location after interim reclamation in acres: 1.30

Estimated post-construction ground elevation: 5141

DRILLING PROGRAM

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

Is H₂S 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:

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: 149015

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: C&C Energy Capital, LLC

Phone: _____

Address: 213 Diamond Loop

Fax: _____

Address: _____

Email: _____

City: Parachute State: CO Zip: 81635

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: No

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: 593 Feet
Building Unit: 616 Feet
High Occupancy Building Unit: 2053 Feet
Designated Outside Activity Area: 1597 Feet
Public Road: 501 Feet
Above Ground Utility: 139 Feet
Railroad: 1393 Feet
Property Line: 125 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: 09/12/2013

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: 4 Arvada Loam, 6 to 20% slopes

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: 09/03/2013

List individual species: Wheatgrass, sage, juniper, and 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): _____

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 180 Feet

water well: 2470 Feet

Estimated depth to ground water at Oil and Gas Location 57 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.

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

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

Signed: _____ Date: 10/01/2013 Email: greg.j.davis@wpenergy.com

Print Name: Greg Title: Davis

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	<ul style="list-style-type: none">* Originally, a new pad was being proposed to drill these wells in the NWNW Section 13 T7S R 96W. With further review, it was determined that this existing GM 24-12 pad could be used to reach the bottom holes of interest. This existing pad is further away from building units than the new pad would have been (<500').* Will use existing pipeline corridors for new pipelines.* Other existing pads in the area are as close if not closer to building units but farther away from bottom holes making it infeasible to drill from these locations.* Share/consolidate corridors for pipeline ROWs to the maximum extent possible.* 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* Minimize the number, length, and footprint of oil and gas development roads* Use existing roads where possible* 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 remote completion/frac operations to minimize traffic* Maximize use of remote telemetry for well monitoring to minimize traffic
2	Pre-Construction	<ul style="list-style-type: none">* 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	<ul style="list-style-type: none">* Most likely, CR 215 to the new Town of Parachute bypass road (to avoid going through town) will be used to get to the pad. The Town of Parachute has agreed to this route. Another route is possible for the rig (Hwy 6 to lease road) if the rig that is scheduled to drill this pad is changed. In that case, the appropriate state, county, and town official would be contacted and permits obtained. This would also be done 1-2 weeks prior to rig moving on location. Pilot cars, in either case, will be used to get the larger rig traffic to location.

4	General Housekeeping	<ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> * Onsite 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	<ul style="list-style-type: none"> * 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	<ul style="list-style-type: none"> * Fugitive dust control will be implemented during all phases of operations on an as-needed basis.
9	Construction	<ul style="list-style-type: none"> * Salvage topsoil from all road construction and other rights-of-way and re-apply during interim and final reclamation.
10	Noise mitigation	<ul style="list-style-type: none"> * The mufflers on the rig will be oriented to point to the north thus directing the noise from the engines away from the residential building units. * Plumb dump lines into tanks to muffle sound * Rubber cushions in lubricators are used to muffle sound for plunger lift
11	Emissions mitigation	<ul style="list-style-type: none"> * Combusters and we use API tanks with thief hatches and enardo valves and pipe everything to the combustion unit.
12	Odor mitigation	<ul style="list-style-type: none"> * We use Combusters and API tanks with thief hatches and enardo valves and pipe everything to the combustion unit.
13	Drilling/Completion Operations	<ul style="list-style-type: none"> * Water for completions operations will be piped from an existing water pit which will reduce truck traffic. * Use centralized hydraulic fracturing operations. * 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). * Conduct well completions with drilling operations to limit the number of rig moves and traffic.

14	Interim Reclamation	<ul style="list-style-type: none"> * 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. * Seed during appropriate season to increase likelihood of reclamation success * 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.) * 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.
15	Final Reclamation	<ul style="list-style-type: none"> * Will complete final reclamation activities so that seeding occurs during the first optimal season following plugging and abandonment of oil and gas wells.

Total: 15 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400466268	FORM 2A SUBMITTED
400482773	SURFACE AGRMT/SURETY
400487913	NRCS MAP UNIT DESC
400487916	SENSITIVE AREA DATA
400487917	FACILITY LAYOUT DRAWING
400487918	CORRESPONDENCE
400488236	ACCESS ROAD MAP
400488237	CONST. LAYOUT DRAWINGS
400488238	HYDROLOGY MAP
400488239	LOCATION DRAWING
400488240	REFERENCE AREA MAP
400488246	MULTI-WELL PLAN
400489608	LOCATION PICTURES

Total Attach: 13 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Returned to draft; Distance to above ground utility, & property line is less than 200'. Distances don't match the form 2's at or near the location. Please review.	10/15/2013 12:30:26 PM
Permit	Need to place the the date of buffer zone notification in the cultural setback tab. Notification letters not required attachments. Form should not be submitted until 30days has elapsed since notification. Date on the letters is 9/12/2013	10/3/2013 10:57:04 AM
Permit	Opr attached pictures looking north and east, but none looking south. Back to draft. Opr reports that distances nited are frin oridycuin equipment on the pad. Distances on teh Form 2's are from the wellhead.	10/2/2013 10:41:40 AM
Permit	Distance to above ground utility, & property line is less than 200'. No location photos are attached. Back to draft.	10/2/2013 9:00:17 AM

Total: 4 comment(s)