

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:

400545193

Date Received:

01/24/2014

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:

**437388**

Expiration Date:

**05/29/2017**

☒ 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: 26580

Name: BURLINGTON RESOURCES OIL & GAS LP

Address: PO BOX 4289

City: FARMINGTON    State: NM    Zip: 87499

Contact Information

Name: Justin Carlile

Phone: (281) 206-5770

Fax: (281) 647-1935

email: justin.carlile@conocophillips.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 19920030    ☐ Gas Facility Surety ID: \_\_\_\_\_

☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Prosper Farms 4-65 13-14    Number: 1H

County: ARAPAHOE

QuarterQuarter: SWNW    Section: 14    Township: 4S    Range: 65W    Meridian: 6    Ground Elevation: 5691

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: 2165 feet FNL from North or South section line

350 feet FWL from East or West section line

Latitude: 39.705203    Longitude: -104.639656

PDOP Reading: 1.8    Date of Measurement: 08/15/2013

Instrument Operator's Name: Loren Shanks

## 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>1</u>	Oil Tanks	<u>3</u>	Condensate Tanks	<u>      </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>1</u>	Separators	<u>1</u>	Injection Pumps	<u>1</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>1</u>
Dehydrator Units	<u>1</u>	Vapor Recovery Unit	<u>1</u>	VOC Combustor	<u>1</u>	Flare	<u>1</u>	LACT Unit	<u>1</u>
								Pigging Station	<u>1</u>

## OTHER FACILITIES

Other Facility Type

Number

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

Future pipelines will consist of:  
4 inch Carbon Steel Gas pipeline  
4 inch Carbon Steel Oil pipeline  
4.5 inch Fiberspar Water pipeline.

## CONSTRUCTION

Date planned to commence construction: 06/01/2014 Size of disturbed area during construction in acres: 6.01  
Estimated date that interim reclamation will begin: 09/01/2014 Size of location after interim reclamation in acres: 5.01  
Estimated post-construction ground elevation: 5690

## 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? Yes

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Recycle/reuse

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Drilling cuttings will be taken by a certified transport company and disposed of at a certified disposal facility.

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: Furniture Row LLC

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

Address: 5641 N. Broadway

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

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

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

City: Denver State: CO Zip: 80216

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: 1737 Feet  
Building Unit: 1904 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 2217 Feet  
Above Ground Utility: 1709 Feet  
Railroad: 5280 Feet  
Property Line: 218 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 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: Weld silt loam, 0 to 3 percent 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: \_\_\_\_\_

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: 945 Feet

water well: 1505 Feet

Estimated depth to ground water at Oil and Gas Location 212 Feet

Basis for depth to groundwater and sensitive area determination:

Water Well: Static water level: 212', perforated casing (top) 445' and (bottom) 667'.

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

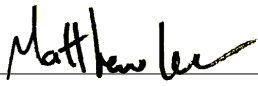
Comments

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

Signed: \_\_\_\_\_ Date: 01/24/2014 Email: justin.carlile@conocophillips.com

Print Name: Justin Carlile Title: Regulatory Specialist

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: 5/30/2014

### **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.**

<b><u>COA Type</u></b>	<b><u>Description</u></b>
	Operator will minimize night time traffic by scheduling mobilizations and deliveries during daytime hours, when possible.
	Operator will mitigate dust by applying water (or other dust suppressant methods as required by the County) prior to potentially dust generating activities and visual emissions of dust (i.e. formation of dust clouds).
	During mobilization, construction, drilling, and fluids transfer operations, Operator will enforce reduced speeds of, no greater than 15 miles per hour from within 500 feet of either direction of the Hurd property along the access route. Speed reduction warning signs will be posted along N. Hayesmount road, 1,000 and 500 feet north of the entrance to the access road and speed limit signs will be posted along the access road as allowed by County regulations [The operator will strictly enforce the speed limits along the access road]. The use of Jake Brakes is prohibited.
	Operator will design the site layout in such a manner that will minimize noise impacts to the resident to the north.
	Operator will submit a Form 42 Notice of Notification, Notice of Intent to Construct 48 hours prior to commencement of construction activities.

## **Best Management Practices**

No	BMP/COA Type	Description
1	Planning	<p>Water Supply and Quality. In an effort to reduce truck traffic, where feasible, the Operator will identify a water source lawfully available for industrial use, including oil and gas development, close to the facility location, to be utilized by Operator and its suppliers. Operator will comply with the Colorado Department of Public Health and Environment requirements concerning water quality. Where feasible, temporary surface water lines are encouraged and will be utilized. Operator may be permitted to utilize County Road Right-of-Way, and County drainage culverts, where practical, for the laying and operation of temporary water lines on the surface. If necessary, operator will bury temporary water lines at existing driveway and gravel road crossings, or utilize existing culverts, if available.</p> <p>No available water sources within one half mile: If there are no available water sources located within a 1/2 mile radius of a new oil and gas facility, the Operator will test the nearest downgradient available water source that is within a one-mile of the oil and gas facility.</p>
2	Storm Water/Erosion Control	<p>Berms shall be inspected by Operator on a weekly basis for evidence of discharge. Berms shall be inspected within 48 hours of a precipitation event.</p>
3	Material Handling and Spill Prevention	<p>Spill and Release Management. Any spill or release that is reportable to the Commission shall be simultaneously reported to the County.</p>
4	Construction	<p>Painting of Oil and Gas Facilities. Except for such facilities that must be painted a certain color for safety reasons, Operator agrees to paint all new (post-MOU) production facilities with uniform, non-contrasting, non-reflective color tones and with colors matched to, but slightly darker, than surrounding landscapes.</p>
5	Noise mitigation	<p>Prior to commencing drilling and completion operations ConocoPhillips will model the anticipated noise levels around the site in areas with residential structures within one thousand (1000) feet of our operations. If noise levels are expected to exceed COGCC permissible levels (Series 800 Rules), ConocoPhillips will develop a site-specific noise mitigation plan to reduce the noise to permissible levels. Mitigation measures may include, but are not limited to: adjustment in the placement of noise generating equipment, installation of noise reducing equipment, or noise barriers such as sound walls. If ConocoPhillips receives a complaint about noise levels, a measurement will be taken to determine compliance with applicable COGCC rules. Additional actions may be taken as necessary to ensure compliance with the rules.</p>
6	Drilling/Completion Operations	<p>Lighting. All permanent lighting of oil and gas well sites shall be directed downward and internally. Temporary lighting shall conform to the Commission's Rules and Regulations.</p> <p>To the extent practicable, site lighting shall be directed downward and inward and shielded so as to avoid glare on public roads and building units.</p>

Total: 6 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668166	Hurd Correspondence
1668176	PUBLIC COMMENT RESPONSE
1668177	COGCC Response
1668180	BURLINGTON RESOURCES CORRESPONDENCE
1668185	Hurd Family Response Letter
1668241	CORRESPONDENCE
400545193	FORM 2A SUBMITTED
400545215	NRCS MAP UNIT DESC
400545263	ACCESS ROAD MAP
400545264	CONST. LAYOUT DRAWINGS
400545265	HYDROLOGY MAP
400545267	LOCATION PICTURES
400545269	LOCATION DRAWING
400545272	FACILITY LAYOUT DRAWING

Total Attach: 14 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	LGD and public comments addressed with attached correspondence, BMP's and COA's. Final Review--passed.	5/30/2014 10:57:55 AM
OGLA	Added Noise Mitigation to the Operator BMPs/COAs per Operator Response to the Public Comment dated April 21, 2014.	5/14/2014 4:43:47 PM
OGLA	Removed MOU with Arapahoe County from the Operator BMPs/COAs Section and modified BMPs to reflect pertinent practices specific to site Location conditions as provided within the MOU Document.  Added: "To the extent practicable, site lighting shall be directed downward and inward and shielded so as to avoid glare on public roads and building units" To the Light BMP under Operator BMPs/COAs section.	5/13/2014 1:07:58 PM
OGLA	In response to the Public Comment, the COGCC worked with the Operator and Arapahoe County to develop a set of appropriate COAs for this Proposed Location.  Our review process is complete at this time.	5/13/2014 10:41:25 AM
OGLA	Phone call with operator. Waiting on response with respect to public comment. Form 2A placed on hold.	4/1/2014 3:18:07 PM
OGLA	Operator provided missing pipeline description and a revised estimated date that interim reclamation will begin.	3/18/2014 3:31:26 PM
OGLA	OGLA review completed. Operator needs to provide missing pipeline description and a revised estimated date that interim reclamation will begin. One year between construction start (4/15/14) and interim reclamation start (4/15/15) does not comply with COGCC Rule 1003.b. Also operator needs to respond to Public Comment from nearby property owner dated 2/17/14.	3/17/2014 10:51:01 AM



LGD	<p>Arapahoe County Planning Division is waiting for some information in order to process a County land-use permit for this well. The County has not received that information as of this date.</p> <p>The comment below was previously accepted by the operator and appeared as a COA on previously approved Form 2As:</p> <p>Operator will direct lights downward or use light shielding except where safety is potentially compromised.</p>	2/19/2014 3:48:59 PM
Public	<p>The proposed well site is just south of our homes. We recently were informed by the doctors that our 1st grandchild (who resides on our property) and is due on June 1st, has a rare chromosomal disorder, Kleeftstra Syndrome, which is similar to Downs Syndrome. Children with Kleeftstra Syndrome experience a number of health issues: Heart Defects, Respiratory Problems, Structural Brain Abnormalities, Epilepsy, Severe Infections, and Developmental Delays. Considering the evident respiratory issues associated with this condition, having extra dust, fumes, toxins, or any foreign substance cannot help but exacerbate the baby's condition.</p> <p>WE have asked ConocoPhillips to consider moving the well site to another location; however, if they are allowed to keep the location, are pleading for significant mitigation to minimize the impact on the baby:</p> <ul style="list-style-type: none"> <li>-Preserve air-quality to the maximum (drilling fracking equip., truck exhaust, dust, toxins, etc.)</li> <li>-Provide some sort of dust suppression for the NEW dirt road they are putting in right next to baby's home. (Pave it?)</li> <li>-Reduce the dust impact of the pad area by replacing the sod/grass after the construction done.</li> <li>-Take measures to prevent or reduce spill impact.</li> <li>-Use equipment that minimizes exhaust emissions and noise.</li> <li>-Use multiple Sound Barriers to reduce the drilling and fracking noises.</li> <li>-Conduct noise monitoring while fracking to ensure the noise is kept at acceptable levels.</li> <li>-Require Truck traffic to end daily by 9pm (so we can sleep at night).</li> <li>-Use measures to minimize the impact of the bright lights.</li> </ul> <p>We are asking that you please take this information into consideration as you make your decision for location approval.</p>	2/17/2014 4:56:57 PM
Permit	Added related APD.	2/6/2014 12:59:56 PM
Permit	Passed completeness.	1/30/2014 2:21:21 PM

Total: 11 comment(s)