

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:

400522813

Date Received:

12/13/2013

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:

**436051**

Expiration Date:

**02/07/2017**

☒ 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: 19160

Name: CONOCO PHILLIPS COMPANY

Address: P O BOX 2197

City: HOUSTON    State: TX    Zip: 77252-2197

Contact Information

Name: Justin Carlile

Phone: (281) 647-1857

Fax: (281) 647-1935

email: justin.carlile@conocophillips.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20100227    ☐ Gas Facility Surety ID: \_\_\_\_\_

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

LOCATION IDENTIFICATION

Name: State Harvard    Number: 1H

County: ARAPAHOE

QuarterQuarter: NWNE    Section: 12    Township: 5S    Range: 65W    Meridian: 6    Ground Elevation: 5864

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: 820 feet FNL from North or South section line

2480 feet FEL from East or West section line

Latitude: 39.636111    Longitude: -104.612800

PDOP Reading: 1.4    Date of Measurement: 09/09/2013

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>2</u>	Oil Tanks	<u>6</u>	Condensate Tanks	<u>      </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>2</u>	Separators	<u>2</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>1</u>
Dehydrator Units	<u>2</u>	Vapor Recovery Unit	<u>2</u>	VOC Combustor	<u>1</u>	Flare	<u>1</u>	LACT Unit	<u>2</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:

Possible future plans involve a gas, water and oil lines leaving the pad from a sales meter. The gas and oil lines would be 4 inches in diameter and made of carbon steel. The water line would be 4.5 inches in diameter and made of composite (Fiberspar or similar product)

## CONSTRUCTION

Date planned to commence construction: 03/01/2014 Size of disturbed area during construction in acres: 7.04  
Estimated date that interim reclamation will begin: 09/01/2014 Size of location after interim reclamation in acres: 5.00  
Estimated post-construction ground elevation: 5862

## 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: <u>Colorado State Land Board</u>	Phone: <u>303-866-3454</u>
Address: <u>1127 Sherman Street Suite 300</u>	Fax: _____
Address: _____	Email: _____
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80203</u>	

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: <input type="checkbox"/> Irrigated <input type="checkbox"/> Dry land <input type="checkbox"/> Improved Pasture <input type="checkbox"/> Hay Meadow <input type="checkbox"/> CRP
Non-Crop Land: <input checked="" type="checkbox"/> Rangeland <input type="checkbox"/> Timber <input type="checkbox"/> Recreational <input type="checkbox"/> Other (describe): _____
Subdivided: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential

Future Land Use (Check all that apply):

Crop Land: <input type="checkbox"/> Irrigated <input type="checkbox"/> Dry land <input type="checkbox"/> Improved Pasture <input type="checkbox"/> Hay Meadow <input type="checkbox"/> CRP
Non-Crop Land: <input checked="" type="checkbox"/> Rangeland <input type="checkbox"/> Timber <input type="checkbox"/> Recreational <input type="checkbox"/> Other (describe): _____
Subdivided: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2562 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 4584 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 813 Feet  
Above Ground Utility: 498 Feet  
Railroad: 5280 Feet  
Property Line: 820 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: Bressor-Truckton sandy loams, 3 to 5 percent

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: 1700 Feet

water well: 355 Feet

Estimated depth to ground water at Oil and Gas Location 1881 Feet

Basis for depth to groundwater and sensitive area determination:

Water depth based off of water well permit #131865

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: 12/13/2013 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: 2/8/2014

### **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>

### **Best Management Practices**

<b><u>No</u></b>	<b><u>BMP/COA Type</u></b>	<b><u>Description</u></b>
1	Drilling/Completion Operations	A MEMORANDUM OF UNDERSTANDING (MOU) WITH ARAPAHOE COUNTY CONCERNING DRILLING/COMPLETION OPERATIONS IS INCLUDED AS ATTACHMENT.

Total: 1 comment(s)

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
1668083	MOU
1668084	CORRESPONDENCE
400522813	FORM 2A SUBMITTED
400526910	LOCATION PICTURES
400526911	LOCATION DRAWING
400526912	HYDROLOGY MAP
400526913	ACCESS ROAD MAP
400526914	REFERENCE AREA MAP
400526915	REFERENCE AREA PICTURES
400526916	CONST. LAYOUT DRAWINGS
400526919	NRCS MAP UNIT DESC
400526920	MULTI-WELL PLAN

Total Attach: 12 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Agree w/ dist. to prop. line. LGD comments addressed by operator's MOU. No public comments. Final Review--passed.	2/4/2014 10:22:48 AM
OGLA	IN PROCESS - Operator provided pipeline description, a revised date interim reclamation will begin, change in distance to nearest water well and depth to groundwater, and a signed copy of the MOU w/ Arapahoe County. Operator is aware of the LGD comments and is OK with them. OGLA task passed.	1/31/2014 9:11:03 AM
OGLA	ON HOLD - Requested pipeline description, revised date interim reclamation will begin, change in distance to nearest water well and depth to groundwater, completed MOU w/ Arapahoe County, & ok on LGD COAs. Due by 2/28/14.	1/28/2014 11:18:10 AM
LGD	<p>These COAs are from previously approved Form 2As:</p> <ol style="list-style-type: none"> <li>1. The Operator shall post 24-hour company contact information at the intersection of the access road and the public road for noise and other complaints.</li> <li>2. The Operator shall concurrently submit copies of any Form 19 submitted to COGCC for this well or its production facilities to Arapahoe County.</li> <li>3. The Operator will implement best management practices that address the timing and planning of mobilization, hauling, construction, drilling, and completion operations to minimize conflicts with school buses.</li> <li>4. The Operator will direct lights downward or use light shielding equipmnet except where safety is potentially compromised.</li> </ol> <ol style="list-style-type: none"> <li>1. The Operator shall post 24-hour company contact information at the intersection of the access road and the public road for noise and other complaints.</li> <li>2. The Operator shall concurrently submit copies of any Form 19 submitted to COGCC for this well or its production facilities to Arapahoe County.</li> <li>3. The Operator will implement best management practices that address the timing and planning of mobilization, hauling, construction, drilling, and completion operations to minimize conflicts with school buses.</li> <li>4. The Operator will direct lights downward or use light shielding equipmnet except where safety is potentially compromised.</li> </ol>	12/31/2013 11:37:58 AM
Permit	Need corrected dist. to prop. line.	12/18/2013 2:20:07 PM
Permit	Passed completeness.	12/13/2013 3:24:12 PM

Total: 6 comment(s)