

FORM  
2A

Rev  
04/01

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:

400387054

Date Received:

03/07/2013

Oil and Gas Location Assessment

New Location  Amend Existing Location Location#: \_\_\_\_\_

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this 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. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

**432850**

Expiration Date:

**05/14/2016**

This location assessment is included as part of a permit application.

1. 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.

2. Operator

Operator Number: 19160  
 Name: CONOCO PHILLIPS COMPANY  
 Address: P O BOX 2197  
 City: HOUSTON State: TX Zip: 77252-2197

3. Contact Information

Name: Justin Carlile  
 Phone: (432) 688-9165  
 Fax: (432) 688-6019  
 email: justin.carlile@conocophillips.com

4. Location Identification:

Name: Zukowski 17 Number: 1H  
 County: ARAPAHOE  
 Quarter: NENE Section: 17 Township: 4S Range: 64W Meridian: 6 Ground Elevation: 5649

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 660 feet FNL, from North or South section line, and 250 feet FEL, from East or West section line.  
 Latitude: 39.707844 Longitude: -104.565653 PDOP Reading: 1.6 Date of Measurement: 10/25/2012  
 Instrument Operator's Name: Robert Kay

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/>	Wells: <input type="checkbox" value="1"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox" value="1"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox" value="1"/>	Separators: <input type="checkbox" value="1"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox" value="1"/>	Pump Jacks: <input type="checkbox" value="1"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox" value="1"/>	Oil Pipeline: <input type="checkbox" value="1"/>	Water Pipeline: <input type="checkbox" value="1"/>	Flare: <input type="checkbox" value="1"/>
Gas Compressors: <input type="checkbox" value="1"/>	VOC Combustor: <input type="checkbox" value="1"/>	Oil Tanks: <input type="checkbox" value="3"/>	Fuel Tanks: <input type="checkbox"/>	

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 05/29/2013 Size of disturbed area during construction in acres: 4.88  
Estimated date that interim reclamation will begin: 07/01/2014 Size of location after interim reclamation in acres: 4.00  
Estimated post-construction ground elevation: 5647 Will a closed loop system be used for drilling fluids: Yes   
Will salt sections be encountered during drilling: Yes  No  Is H2S anticipated? Yes  No   
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes  No   
Mud disposal: Offsite  Onsite  Method: Land Farming  Land Spreading  Disposal Facility   
Other: \_\_\_\_\_

### 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: \_\_\_\_\_  
Surface Owner:  Fee  State  Federal  Indian  
Mineral Owner:  Fee  State  Federal  Indian  
The surface owner is:  the mineral owner  committed to an oil and gas lease  
 is the executer of the oil and gas lease  the applicant  
The right to construct the location is granted by:  oil and gas lease  Surface Use Agreement  Right of Way  
 applicant is owner  
Surface damage assurance if no agreement is in place:  \$2000  \$5000  Blanket Surety ID \_\_\_\_\_

### 8. Reclamation Financial Assurance:

Well Surety ID: 20100227  Gas Facility Surety ID: \_\_\_\_\_  Waste Mgnt. Surety ID: \_\_\_\_\_

### 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes  No   
Distance, in feet, to nearest building: 883, public road: 835, above ground utility: 832,  
railroad: 15312, property line: 250

### 10. 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

### 11. 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

### 12. Soils:

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.gov/> 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: Adena-Colby silt loams, 1 to 5 percent

NRCS Map Unit Name: \_\_\_\_\_  
NRCS Map Unit Name: \_\_\_\_\_

**13. 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): \_\_\_\_\_

**14. Water Resources:**

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area:  No  Yes Was a Rule 901.e. Sensitive Areas Determination performed:  No  Yes  
Distance (in feet) to nearest surface water: 2570, water well: 1134, depth to ground water: 300  
Is the location in a riparian area:  No  Yes Was an Army Corps of Engineers Section 404 permit filed  No  Yes  
Is the location within a Rule 317B Surface Water Suppl Area buffer zone:  
 No  0-300 ft. zone  301-500 ft. zone  501-2640 ft. 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:  No  Yes

**15. Comments:**

Cuttings will be taken by a certified transport company and disposed of a certified disposal facility. Water well is drilled to 1030 feet with a top level of 810 feet and a static water level of 300 feet.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 03/07/2013 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: Matthew Lee Director of COGCC Date: 5/15/2013

**CONDITIONS OF APPROVAL, IF ANY:**  
\_\_\_\_\_

**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.**

Conditions of approval:

1. Operator shall post 24-hour company contact information at the intersection of the access road and public road concurrent with MIRU.
2. Operator shall concurrently submit copies of any Form 19 submitted to COGCC for this Well or its Production Facilities to the LGD for Arapahoe County.
3. Operator will implement best management practices that address the timing and planning of mobilization, hauling, and construction operations to minimize conflicts with school bus routes.
4. Operator will direct lights downward or use light shielding except where safety is potentially compromised.
5. Operator will comply with the Visual Impact Mitigation rule (Rule 804) due to the proximity of well traveled roads to the proposed location.

**Attachment Check List**

Att Doc Num	Name
2086214	CORRESPONDENCE
2086216	CORRESPONDENCE
400387054	FORM 2A SUBMITTED
400388383	LOCATION PICTURES
400388388	LOCATION DRAWING
400388396	HYDROLOGY MAP
400388397	ACCESS ROAD MAP
400388400	REFERENCE AREA MAP
400388401	REFERENCE AREA PICTURES
400388403	CONST. LAYOUT DRAWINGS
400388404	NRCS MAP UNIT DESC
400388871	OTHER

Total Attach: 12 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	The surface/mineral owner is the executer of the lease.	5/15/2013 8:09:16 AM
Permit	Final review completed. No LGD or public comments.	5/6/2013 4:47:56 AM
OGLA	plant community information removed - not necessary for crop land. operator email was received stating agreement with COGCC COAs - correspondence attached. Per LGD - Araphahoe County is working with the operator to address its' specific concerns via Use By Special Review (USR) process.	4/25/2013 8:20:17 AM
OGLA	email sent to operator with County LGD conditions and a request for responses to the conditions. Operator email to COGCC states that each of the counties concerns has been addressed and there are plans to deal with each concern. Email is attached as correspondence.	4/8/2013 3:42:04 PM
LGD	<p>The County requests incorporation of the following into the approved Form 2A, as BMPs:</p> <ol style="list-style-type: none"> <li>1) The Applicant is responsible for dust control on the access road and the well pad.</li> <li>2) The Applicant will do baseline water quality testing of water wells according to the recently approved COGCC Rule 609 and will also do baseline water quality testing of all water wells within 1/2 mile of the oil and gas well if requested by the water well owner.</li> <li>3) The Applicant will have all lights during the drilling phase directed in a downward position.</li> <li>4) The Applicant will use a closed-loop system.</li> <li>5) The Applicant will be responsible for noxious weed control on any disturbed area, from the construction phase to the closure of the well or facility.</li> <li>6) The Applicant will post 24-hour company contact information at the intersection of the access road and the public road.</li> <li>7) The Applicant will time and plan mobilization, hauling, and construction to minimize conflicts with school buses.</li> <li>8) The Applicant will submit copies of any Form 19 submitted to COGCC for this well or its production facilities to the County LGD.</li> </ol> <p>The LGC provided the following is a list of County Conditions of Approval addressed through the Use by Special Review process:</p> <p>The Applicant will obtain all necessary County permits, including Building, Access, Grading, Erosion, and Sediment Control (GESD), Oversize/Overweight, and Floodplain permits, as applicable.</p>	3/28/2013 4:58:42 PM
OGLA	size of disturbed area is access road at 0.63 acres and location at 4.25 acres. reference area map and pictures are not necessary for crop land/dry land.	3/21/2013 10:51:06 AM

Total: 6 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Site Specific	<p>ConocoPhillips Groundwater Monitoring Program</p> <p>ConocoPhillips has adopted the Colorado Oil and Gas Association (COGA) voluntary groundwater testing program to establish baseline groundwater quality conditions around new oil well locations in their leased area. The sampling program will allow the company (ConocoPhillips) to evaluate the groundwater conditions before drilling a well and also to monitor water quality afterward.</p> <p>The program will be in accordance with the guidance set forth in the Voluntary Baseline Groundwater Quality Sampling Program last updated on November 15, 2011. Under the sampling protocol, water samples would be collected from the two closest groundwater sources with reasonable access. The sample points, permitted or registered wells, would be located within ½ mile of the proposed well surface location.</p> <p>Sampling will be conducted based on the landowner granting access to the well location and agreeing to have the laboratory analytical results submitted to COGCC for posting to a database viewable by the public.</p> <p>Samples will be analyzed for the constituents listed in Table 1 of the Groundwater Sampling and Analytical Program.</p>

Total: 1 comment(s)