

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:

400383498

Date Received:

04/03/2013

## 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:

**432916**

Expiration Date:

**05/16/2016**

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: 69175  
 Name: PDC ENERGY INC  
 Address: 1775 SHERMAN STREET - STE 3000  
 City: DENVER State: CO Zip: 80203

### 3. Contact Information

Name: Liz Lindow  
 Phone: (303) 831-3974  
 Fax: ( )  
 email: liz.lindow@pdce.com

### 4. Location Identification:

Name: Sorin Natural Resources Number: 2M-TB Pad  
 County: WELD  
 Quarter: NWNE Section: 2 Township: 4N Range: 66W Meridian: 6 Ground Elevation: 4673

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: 300 feet FNL, from North or South section line, and 2554 feet FEL, from East or West section line.  
 Latitude: 40.347730 Longitude: -104.743930 PDOP Reading: 2.3 Date of Measurement: 11/21/2012  
 Instrument Operator's Name: Brian Rottinghaus

### 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"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox"/>	Separators: <input type="checkbox"/>	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"/>	Pump Jacks: <input type="checkbox"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	

Other: 1 VRU, 1 Treater, one three-phase flowline per well

### 6. Construction:

Date planned to commence construction: 05/05/2013 Size of disturbed area during construction in acres: 1.50  
Estimated date that interim reclamation will begin: 08/05/2013 Size of location after interim reclamation in acres: 0.50  
Estimated post-construction ground elevation: 4673 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: 12/05/2012  
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 19990086

### 8. Reclamation Financial Assurance:

Well Surety ID: 20090078  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: 647, public road: 855, above ground utility: 690,  
railroad: 5280, property line: 89

### 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: 3: Aquolls and Aquent, gravelly substratum

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: 75, water well: 424, depth to ground water: 3  
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:**

Water well permit #2001- -A was used to find depth to ground water. Drill cuttings will be land applied at PDC spread fields with COGCC Facility ID 430649 or 429629. The Sorin Natural Resources 2M-203, 2M-423, and 2R-243 will produce to this pad.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 04/03/2013 Email: liz.lindow@pdce.com  
Print Name: Liz Lindow Title: Regulatory Analyst

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: 5/17/2013

**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.

**Attachment Check List**

Att Doc Num	Name
400383498	FORM 2A SUBMITTED
400383503	NRCS MAP UNIT DESC
400383504	WASTE MANAGEMENT PLAN
400394875	ACCESS ROAD MAP
400394876	HYDROLOGY MAP
400394877	LOCATION DRAWING
400394878	LOCATION PICTURES

Total Attach: 7 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
OGLA	Added sound mitigation BMP, CPW is working with the surface owner regarding the SWA issue.	5/13/2013 2:08:11 PM
Permit	Operator confirms that the tank battery is on the surface above the 11 acre mineral lease.	4/26/2013 8:42:01 AM
Public	<p>Wildlife recreation uses of the property (Webster State Wildlife Area) can be protected by: 1) allowing drilling and other active disturbances during non-hunting seasons from June 1st through August 31st, 2) locating oil and gas facilities outside the footprint of proposed recharge ponds and wetlands, 3) maintaining public access to the designated parking lot during oil and gas activities, 4) the the extent possible, limiting truck traffic during hunting season to mid-day hours, ie: 11 am to 2 pm when hunting is less likely, and 5) consolidating all proposed drill pads and access roads on the property as much as possible.</p> <p>Tom Schreiner  NE Region Energy Liaison  Colorado Parks and Wildlife</p>	4/24/2013 5:03:51 PM
Public	<p>PDC Energy Inc has proposed oil and gas activity on four (4) locations on property managed by Colorado Parks and Wildlife (CPW) under easement as Webster State Wildlife Area, approximately 2 miles northwest of LaSalle, Colorado. Colorado Parks and Wildlife appreciates the opportunity to work with the operator and surface owner and is in the process of discussing operating practices with them that will accommodate our surface use of the property. We note that there are no sensitive wildlife habitats on the property. However, we would appreciate an opportunity to continue to discuss recommended practices to accommodate the ongoing recreational use of the property prior to approval of the pending Form 2a. The recreation easements provide for public hunting, fishing, and outdoor recreation, including hiking, wildlife viewing, and hunting for waterfowl, pheasants, rabbits, and doves.</p> <p>Tom Schreiner  NE Region Energy Liaison  Colorado Parks and Wildlife</p>	4/24/2013 4:59:43 PM
Permit	This form has passed completeness.	4/4/2013 2:16:16 PM

Total: 5 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>
Storm Water/Erosion Control	This Stormwater Management Plan contains required elements associated with PDC's construction activities for Area 2, as defined in the CDPS General Permit for Stormwater Discharges Associated with Construction Activity, Authorization to Discharge Under the Colorado Discharge Permit System (Permit No. COR-030000, re-issued and effective July 1, 2007). BMPs for sediment and erosion control will be accomplished through a combination of construction techniques, vegetation and re-vegetation, administrative controls, and structural features.

Total: 1 comment(s)