

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:  
400361026

Date Received:  
01/10/2013

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:  
**431829**  
Expiration Date:  
**02/14/2016**

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: 100185  
Name: ENCANA OIL & GAS (USA) INC  
Address: 370 17TH ST STE 1700  
City: DENVER State: CO Zip: 80202-5632

3. Contact Information

Name: Miracle Pfister  
Phone: (720) 876-3761  
Fax: (720) 876-4861  
email: miracle.pfister@encana.com

4. Location Identification:

Name: State SENE Number: 1D-16H-3-68 PAD  
County: WELD  
Quarter: SENE Section: 16 Township: 3N Range: 68W Meridian: 6 Ground Elevation: 5016

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: 1583 feet FNL, from North or South section line, and 465 feet FEL, from East or West section line.  
Latitude: 40.228870 Longitude: -105.000250 PDOP Reading: 1.8 Date of Measurement: 12/01/2012  
Instrument Operator's Name: RICE

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

Special Purpose Pits: <input type="text" value="0"/>	Drilling Pits: <input type="text" value="0"/>	Wells: <input type="text" value="8"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>
Condensate Tanks: <input type="text" value="0"/>	Water Tanks: <input type="text" value="15"/>	Separators: <input type="text" value="8"/>	Electric Motors: <input type="text" value="0"/>	Multi-Well Pits: <input type="text" value="0"/>
Gas or Diesel Motors: <input type="text" value="0"/>	Cavity Pumps: <input type="text" value="0"/>	LACT Unit: <input type="text" value="0"/>	Pump Jacks: <input type="text" value="0"/>	Pigging Station: <input type="text" value="0"/>
Electric Generators: <input type="text" value="0"/>	Gas Pipeline: <input type="text" value="0"/>	Oil Pipeline: <input type="text" value="0"/>	Water Pipeline: <input type="text" value="0"/>	Flare: <input type="text" value="0"/>
Gas Compressors: <input type="text" value="0"/>	VOC Combustor: <input type="text" value="15"/>	Oil Tanks: <input type="text" value="29"/>	Fuel Tanks: <input type="text" value="0"/>	

Other: 8 VRTs, 8 Meters, 8 Buffer Tanks

6. Construction:

Date planned to commence construction: 01/30/2013 Size of disturbed area during construction in acres: 5.00  
 Estimated date that interim reclamation will begin: 03/31/2014 Size of location after interim reclamation in acres: 2.50  
 Estimated post-construction ground elevation: 5016 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: 11/26/2012  
 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 \_\_\_\_\_

**8. Reclamation Financial Assurance:**

Well Surety ID: 20100017  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: 547, public road: 451, above ground utility: 490,  
 railroad: 453, property line: 410

**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: #82 - Wiley-Colby Complex, 1 - 3 percent slopes

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: 2819, water well: 927, depth to ground water: 100  
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:**

\_\_\_\_\_

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.  
Signed: \_\_\_\_\_ Date: 01/10/2013 Email: miracle.pfister@encana.com  
Print Name: Miracle Pfister 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:  Director of COGCC Date: 2/15/2013

**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.**

1. Operator shall apply an appropriate liquid dust suppressant and dust control in advance of and during--as necessary--mobilization, construction, water hauling, or other high traffic periods to the gravel portions of the haul route and access road(s). Such application shall not be done in violation of Colorado Department of Transportation, Weld County, or Town of Mead, or any other regulatory authority, as applicable. If authorized by surface owner, operator may install a suitable hard or semi-hard surface on access roads and permanent pad to prevent dust generation.
2. Operator shall not schedule rig or major equipment mobilization or high volume fluids hauling on Thanksgiving Day, the day after Thanksgiving, the day before Christmas, or Christmas Day.
3. Operator shall install fencing adequate to prevent unauthorized public access around all wellheads and production facilities prior to putting equipment into service.
4. Operator shall orient drilling rig and completion equipment such that noise is minimized toward the residences to the southeast and the school to the north.
5. Operator shall install temporary sound mitigation to further reduce drilling and completion noise disturbance to the residents to the southeast and school to the north. This COA shall not preclude additional sound mitigation, if necessary and appropriate.
6. Operator shall prepare and submit to COGCC as-built drawings showing production facilities and pipelines (generally), within 90 days of installation.

**Attachment Check List**

Att Doc Num	Name
1695509	CORRESPONDENCE
2086254	CORRESPONDENCE
2086255	CORRESPONDENCE
400361026	FORM 2A SUBMITTED
400367713	LOCATION PICTURES
400367715	LOCATION DRAWING
400367716	NRCS MAP UNIT DESC
400367717	WASTE MANAGEMENT PLAN
400367718	ACCESS ROAD MAP
400367719	MULTI-WELL PLAN
400367944	HYDROLOGY MAP

Total Attach: 11 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Final Review	Public comment received. Town of Mead comment received, Weld County is LGD. Discussed with operator and provided response in comments on Form 2A and correspondence attached to Form 2A. COAs attached. Final review complete.	2/15/2013 5:25:18 PM
OGLA	<p>COGCC Response to public comment: The operator has been advised of the receipt of the comment from a concerned adjacent landowner. COGCC recommends that the operator contact the interested party and attempt to address concerns in and reduce potential for land use conflicts.</p> <p>In accordance with COGCC Rule 305.e., notice to surface property owners within 500 feet of a proposed Oil and Gas Location is not required with the Greater Wattenberg Area (GWA) defined by Rule 318A. This proposed Oil and Gas Location is within the GWA, therefore the notice was not required and not sent; however, the operator is required to post notice of their intended operations in the form of a sign at the access point 30 days prior to commencement of operation.</p> <p>This application is governed by the Rules in effect at the time of application. The current COGCC Rules (603.a.(1)) require a minimum wellhead setback of 150 feet or one and one-half times the height of the derrick to the nearest building unit in areas not determined to be high density. In accordance with Rule 603.b. and 603.c., this location is not in a high density area and the minimum setback is met. Production facilities, including tanks, separators and other specific equipment must be placed a minimum of 200 feet from existing buildings; the attached Location Drawing demonstrates compliance with this requirement.</p> <p>COGCC statutory authority and Rules address only the placement of wells and oil and gas facilities with respect to existing or permitted structures; COGCC does not regulate the current or future land use surrounding oil and gas operations. COGCC does not enforce private contractual agreements.</p> <p>COGCC statutory authority and Rules do not require operators to consult with surrounding property owners. By Rule, surrounding property owners may rely on their Local Government Designee (LGD) to facilitate consultation on the location of roads, production facilities and well sites (306.a.(1)). The proposed Oil and Gas Location is located in Weld County; no comments or consultation requests were received from the Weld County LGD within the comment period. The proposed Oil and Gas Location are in an area of Weld County zoned for Agriculture, which includes oil and gas activity as a use by right. The operator did engage in meaningful consultation with the Town of Mead, and agreed to certain operational requirements that can be found on attached correspondence.</p> <p>COGCC has placed Conditions of Approval (COAs) on this Oil and Gas Location Assessment Form 2A to address concerns identified during the comment period. COAs address dust, timing, site security, noise, and facility layout.</p>	2/14/2013 10:34:23 PM
Permit	Related correspondence from the Town of Mead is attached.	2/5/2013 2:36:30 PM
Public	Please see comments filed under 400355271, 400355272, and 400360326 through 400360332 relating to wells and facilities locations.	1/21/2013 2:56:51 PM
Permit	ON HOLD: w/o for the operator and COGCC to address the LGD comments.	1/18/2013 3:36:57 PM
Permit	Operator added NRCS Map Unit name. Ready to pass completeness.	1/11/2013 12:58:29 PM
Permit	Returned to draft. NRCS Map Unit names (s) are missing under Cultural and Soil.	1/11/2013 10:21:21 AM

Total: 7 comment(s)

**BMP**

Type

Comment

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)