

FORM  
2A

Rev  
04/01

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



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Document Number:

1759030

**Oil and Gas Location Assessment**

New Location       Amend Existing Location      Location#: 321535

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 stand alone 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:

**321535**

Expiration Date:

**11/23/2012**

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: NICK G. CURRAN

Phone: (720) 876-5288

Fax: (720) 876-6288

email: NICK.CURRAN@ENCANA.COM

**4. Location Identification:**

Name: BURY CRANDELL MULTI-WELL PAD Number: 42-23

County: BROOMFIELD

Quarter: NENE Section: 23 Township: 1N Range: 68W Meridian: 6 Ground Elevation: 5111

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: 1051 feet, from North or South section line: FNL and 1028 feet, from East or West section line: FEL

Latitude: 40.041290 Longitude: -104.964890 PDOP Reading: 1.3 Date of Measurement: 04/08/2009

**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"/> <u>1</u>	Wells: <input type="checkbox"/> <u>5</u>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox"/> <u>2</u>	Separators: <input type="checkbox"/> <u>3</u>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/> <u>0</u>	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"/> <u>0</u>	Gas Pipeline: <input type="checkbox"/> <u>1</u>	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"/> <u>3</u>	Fuel Tanks: <input type="checkbox"/>	

Other: EXISTING and included in facilities above: bury crandell c unit #1, separator, water tank, oil tank; rig = 7 gas/diesel motors, 2 electric generators

6. Construction:

Date planned to commence construction: 05/01/2010 Size of disturbed area during construction in acres: 3.67
Estimated date that interim reclamation will begin: 11/01/2010 Size of location after interim reclamation in acres: 0.50
Estimated post-construction ground elevation: 5111 Will a closed loop system be used for drilling fluids: Yes
Will salt sections be encountered during drilling: Yes No X Is H2S anticipated? Yes No X
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes No X
Mud disposal: Offsite X Onsite Method: Land Farming Land Spreading X Disposal Facility
Other:

7. Surface Owner:

Name: Phone:
Address: Fax:
Address: Email:
City: State: Zip: Date of Rule 306 surface owner consultation: 10/21/2008
Surface Owner: X Fee State Federal Indian
Mineral Owner: X Fee State Federal Indian
The surface owner is: the mineral owner X committed to an oil and gas lease
is the executor of the oil and gas lease the applicant
The right to construct the location is granted by: X oil and gas lease Surface Use Agreement Right of Way
applicant is owner
Surface damage assurance if no agreement is in place: \$2000 \$5000 X Blanket Surety ID 20050027

8. Reclamation Financial Assurance:

Well Surety ID: 20050043 Gas Facility Surety ID: Waste Mgmt. Surety ID:

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No X
Distance, in feet, to nearest building: 1346 , public road: 969 , above ground utilit: 1008
, railroad: 350 , property line: 940

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 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: 83 WILEY-COLBY COMPLEX, 3 TO 5 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 (Bluestern, 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: 270, water well: 453, depth to ground water: 0

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:

NOTE: WATER WELL #46826-MH, THE NEAREST WATER WELL TO THE LOCATION DOES NOT HAVE DEPTH OR LEVEL DATGA ON THE COLORADO DIVISION OF WATER RESOURCES WEBSITE. THE 2ND NEAREST WATER WELL, #25578F, ALSO DOES NOT CONTAIN DEPTH OR LEVEL DATA.

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

Signed: \_\_\_\_\_ Date: 09/04/2009 Email: NICK.CURRAN@ENCANA.COM

Print Name: NICK CURRAN Title: PERMITTING AGENT

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

*David S. Nesher*

COGCC Approved: \_\_\_\_\_

**Director of COGCC**

Date: 11/24/2009

Location is in a sensitive area because of close proximity to surface water, therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

Operator must implement best management practices to contain any unintentional release of fluids.

ADDITIONAL FACILITIES MUST BE PLACED TO THE SOUTHEAST OF THE WELLS AWAY FROM THE WETLANDS TO THE NORTHWEST

Location is in a sensitive area because of proximity to surface water and wetlands; therefore, either a lined drilling pit or closed loop system is required.

### **Attachment Check List**

Att Doc Num	Name	Doc Description
1759030	FORM 2A	LF@2138861 1759030
1759031	LOCATION PICTURES	LF@2138884 1759031
1759032	LOCATION PICTURES	LF@2138882 1759032
1759033	LOCATION DRAWING	LF@2138885 1759033
1759034	HYDROLOGY MAP	LF@2138886 1759034
1759035	ACCESS ROAD MAP	LF@2138887 1759035
1759036	NRCS MAP UNIT DESC	LF@2138862 1759036
1759037	MULTI-WELL PLAN	LF@2138888 1759037
1784490	MULTI-WELL PLAN	LF@2166894 1784490
1784493	MULTI-WELL PLAN	LF@2168556 1784493
1784517	LOCATION DRAWING	LF@2172005 1784517
1784550	MULTI-WELL PLAN	LF@2178102 1784550
1784551	LOCATION DRAWING	LF@2178103 1784551
1784594	CORRESPONDENCE	LF@2185407 1784594

Total Attach: 14 Files