

# State of Colorado

## Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Date Received:

09/17/2009

### Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 335648

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:

**335648**

Expiration Date:

**11/16/2012**
☐ 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: Julia Carter  
 Phone: (720) 876.5240  
 Fax: (720) 876.6240  
 email: julia.carter@encana.com

### 4. Location Identification:

Name: N. Parachute Number: WF K22 596  
 County: GARFIELD  
 QuarterQuarter: NESW Section: 22 Township: 5S Range: 96W Meridian: 6 Ground Elevation: 6526  
 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: 2117 feet FSL, from North or South section line, and 1575 feet FWL, from East or West section line.  
 Latitude: 39.599194 Longitude: -108.159181 PDOP Reading: 2.1 Date of Measurement: 10/31/2008  
 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="text" value="0"/>	Drilling Pits: <input type="text" value="2"/>	Wells: <input type="text" value="52"/>	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="4"/>	Separators: <input type="text" value="26"/>	Electric Motors: <input type="text" value="4"/>	Multi-Well Pits: <input type="text" value="0"/>
Gas or Diesel Motors: <input type="text" value="3"/>	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="1"/>
Electric Generators: <input type="text" value="3"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="0"/>	Water Pipeline: <input type="text" value="2"/>	Flare: <input type="text" value="0"/>
Gas Compressors: <input type="text" value="0"/>	VOC Combustor: <input type="text" value="0"/>	Oil Tanks: <input type="text" value="0"/>	Fuel Tanks: <input type="text" value="1"/>	

Other: 1 Flare Stack, 9 meter houses - Please see attached Facilities List

### 6. Construction:

Date planned to commence construction: 12/01/2009 Size of disturbed area during construction in acres: 8.42  
Estimated date that interim reclamation will begin: 05/01/2011 Size of location after interim reclamation in acres: 2.56  
Estimated post-construction ground elevation: 6525 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: Recycle and Bury

## 7. Surface Owner:

Name: EnCana Oil & Gas(USA)Inc. Phone: \_\_\_\_\_  
Address: 370 17th Street Fax: \_\_\_\_\_  
Address: Suite 1700 Email: \_\_\_\_\_  
City: Denver State: CO Zip: 80202 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: 20020067 ☐ Gas Facility Surety ID: \_\_\_\_\_ ☐ Waste Mgmt. Surety ID: \_\_\_\_\_

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 17609, public road: 16806, above ground utility: 15530,  
railroad: 60192, property line: 6864

## 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): Shrub and brush  
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): Shrub and brush  
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: Rock Outcrop - Torriorthents Complex; 62

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: 07/07/2009

List individual species: Wyoming sagebrush, Douglas fir, Gambel oak, Serviceberry, Yarrow, Downy brome

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: 165, water well: 11879, depth to ground water: 10

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 Supply 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:

Please reference the attached facilities list for a more detailed account of what will be on the location. Please note that this is an existing location with approximately 4.055 acres previously disturbed. The 8.425 acres of disturbance listed above refers to the total disturbance once the pad expansion is completed.

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

Signed: Date: 09/17/2009 Email: julia.carter@encana.com

Print Name: Julia M. Carter 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: David S. Nashin Director of COGCC Date: 11/17/2009

**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.**

**Description**

Land Assessment COAs Approved by Operator:

COA 4 - Location is in a sensitive area because of close proximity to surface water, therefore, operator must ensure 150 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

Land Assessment COAs Approved by Operator:

COA 5 - Operator must implement best management practices to contain any unintentional release of fluids.

Land Assessment COAs Approved by Operator:

COA 2 - Location may be in a sensitive area due to shallow groundwater; therefore if drilling pits intercept groundwater the pit must be lined or a closed loop system must be used.

Land Assessment COAs Approved by Operator:

COA 1 - Location is in a sensitive area because of shallow groundwater; therefore, either a lined drilling pit or closed loop system must be implemented.

**Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
2032651	CORRESPONDENCE
400004624	FORM 2A APPROVED
400004631	ACCESS ROAD MAP
400004632	CONST. LAYOUT DRAWINGS
400004634	LOCATION DRAWING
400004635	LOCATION PICTURES
400004636	MULTI-WELL PLAN
400004637	NRCS MAP UNIT DESC
400004638	PROPOSED BMPs
400004639	REFERENCE AREA MAP
400004640	REFERENCE AREA PICTURES
400004642	OTHER
400005607	HYDROLOGY MAP

Total Attach: 13 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
DOW	<p>CDOW and EnCana maintain a wildlife mitigation plan in the North Parachute Creek area.</p> <p>CDOW reaffirms that the BMPs contained in the North Parachute Ranch Wildlife Mitigation Plan are sufficient to protect wildlife habitat and mitigation concerns for this EnCana well pad k22 596.</p> <p>Submitted by Michael Warren Wednesday, September 30, 2009 at 12:03 P.M.</p>	9/30/2009 12:05:18 PM

Total: 1 comment(s)

### Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>