

FORM  
2ARev  
04/01State 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:

400196689

## 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:

**425434**

Expiration Date:

**09/19/2014**
☐ 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 Curran

Phone: (720) 876-5288

Fax: (720) 876-6288

email: nick.curran@encana.com

## 4. Location Identification:

Name: H29OU 8SR96 29SENE WATER Number: TRANSFER PAD

County: MESA

QuarterQuarter: SENE Section: 29 Township: 8S Range: 96W Meridian: 6 Ground Elevation: 5614

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: 1528 feet FNL, from North or South section line, and 450 feet FEL, from East or West section line.

Latitude: 39.323630 Longitude: -108.124497 PDOP Reading: 2.2 Date of Measurement: 03/23/2011

Instrument Operator's Name: JASON HERGERT

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

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="240"/>	Separators: <input type="text"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: THIS LOCATION WILL BE A WATER TRANSFER PAD ONLY FOR NOW. WATER TANK FACILITIES TOTALS WILL ACTUALLY BE FRAC TANKS.

## 6. Construction:

Date planned to commence construction: 09/25/2011 Size of disturbed area during construction in acres: 4.00  
Estimated date that interim reclamation will begin: 09/25/2013 Size of location after interim reclamation in acres: 0.00  
Estimated post-construction ground elevation: 5614 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: 01/01/2011  
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: \_\_\_\_\_ ☐ 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: 17060 , public road: 2350 , above ground utilit: 2800  
 , railroad: 15800 , property line: 450

## 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: BUNKWATER VERY FINE SANDY LOAM, 1 TO 8 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: 09/14/2010  
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: 700, water well: 12038, depth to ground water: 45  
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:

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

Signed: \_\_\_\_\_ Date: 08/18/2011 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.

COGCC Approved: David S. Neslin Director of COGCC Date: 9/20/2011

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.**

**SITE SPECIFIC COAs:**

Operator must ensure 110 percent secondary containment for any volume of fluids contained at frac tank water transfer/storage site during completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the location will be stabilized, inspected at regular intervals (every 14 days at a minimum during the construction phase and at least every 30 days during operations period), and maintained in good condition.

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines or permanent buried pipelines.

Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any reconfiguration of the pipeline network. Operator shall maintain pipeline pressure testing records throughout operations of the water transfer facility. The records will be made available to COGCC upon request.

Operator must implement best management practices to contain any unintentional release of fluids at the water transfer facility location. Additional containment shall be required where temporary or permanent pumps and other necessary equipment or chemicals are located.

Operator should provide overflow protection for each individual frac tank (site will be manned 24/7 during completion operations and period visual checks will be conducted to provide overflow monitoring of the tanks during flowback).

Operator proposes that this facility will be in operation for a period of less than three years. Should the operation of this facility continue more than three years, a Form 28 shall be submitted and approved prior to the expiration of this Form 2A.

Operator shall submit by Form 4 Sundry Notice a Reuse and Recycling Plan (RRP) in accordance with: COGCC Rule 907. MANAGEMENT OF E&P WASTE; a. General requirements; (3) Reuse and recycling. Such plans shall describe, at a minimum, the type(s) of waste, the proposed use of the waste, method of waste treatment, product quality assurance, and shall include a copy of any certification or authorization that may be required by other laws and regulations.

COGCC and EnCana have agreed to additional COAs to regulate operations at the water transfer pad (additional correspondence attachments). A Reuse and Recycle Plan will be submitted via Sundry Form 4 detailing operations.

**Attachment Check List**

Att Doc Num	Name
2033997	CORRESPONDENCE
2034019	CORRESPONDENCE
2034023	CORRESPONDENCE
400196689	FORM 2A SUBMITTED
400196803	HYDROLOGY MAP
400196805	PROPOSED BMPs
400197579	REFERENCE AREA PICTURES
400197580	REFERENCE AREA MAP
400197581	LOCATION DRAWING
400197582	NRCS MAP UNIT DESC
400197586	ACCESS ROAD MAP
400197588	LOCATION PICTURES
400197592	OTHER

Total Attach: 13 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Removed plugging bond, committed and executer of an oil and gas lease Changed distance to nearest road to 2,350' Corrected name to 29SENE	9/14/2011 1:36:59 PM
DOW	The BMPs as submitted by the operator are appropriate for the site and species effected.  In addition to the BMPs submitted, Encana has agreed, by phone conversation, to include weed management activities for the pad site.  Friday, September 2, 2011 at 2:30 P.M.	9/2/2011 2:30:52 PM
OGLA	Initiated/Completed OGLA Form 2A review on 08-29-11 by Dave Kubeczko; requested acknowledgement of fluid containment and spill/release BMP, frac tank overflow protection, three year use period, reuse/recycle plan COAs from operator on 08-29-11; received acknowledgement of COAs from operator on 08-30-11; passed by CDOW on 09-02-11 with operator submitted BMPs (with permit application) acceptable; passed OGLA Form 2A review on 09-09-11 by Dave Kubeczko; fluid containment and spill/release BMP, frac tank overflow protection, three year use period, reuse/recycle plan COAs.	8/29/2011 2:33:07 PM
Permit	Returned to draft. This is a SWA.	8/18/2011 2:36:15 PM

Total: 4 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Pre-Construction	WATTLES, SILT FENCE, VEGETATION BUFFERS, SLASH, TOPSOIL WINDROWS (DIVERSIONS & ROP'S), SCHEDULING, PHASED CONSTRUCTION
Construction	(NOT ALL ARE USED ALL THE TIME)  TERMINAL CONTAINMENT, DIVERSIONS, RUN-ON PROTECTION, TRACKING, BENCHING, TERRACING, ECM, ECB, CHECK DAMS, SEEDING, MULCHING, WATER BARS, STABILIZED UNPAVED SURFACES (GRAVEL), STORMWATER & SNOW STORAGE CONTAINMENT, SCHEDULING, PHASED CONSTRUCTION, TEMPORARY FLUMES, CULVERTS W/ INLET/OUTLET PROTECTION, RIP RAP, TRM, MAINTENANCE, SCHEDULING, PHASED CONSTRUCTION, FUELING, BMP'S , WASTE MANAGEMENT BMP'S, MATERIALS HANDLING BMPS
Final Reclamation	MAINTENANCE, REVEGETATION MONITORING, BMP MAINTENANCE/MONITORING, WEED MANAGEMENT
Wildlife	MINIMIZE THE NUMBER, LENGTH AND FOOTPRINT OF O&G DEVELOPMENT ROADS, USE EXISTING ROUTES WHERE POSSIBLE, COMBINE UTILITY INFRASTRUCTURE PLANNING (GAS, WATER AND ELECT) WHEN POSSIBLE WITH ROADWAY PLANNING TO AVOID SEPERATE UTILITY CORRIDORS, COORDINATE EMPLOYEE TRANSPORT WHEN POSS, REDUCE VISITS TO WELLSITES THRU MONITORING AND THE USE OF MULTI-FUNCTION CONTRACTORS, MAXIMIZE USE OF STATE-OF-THE-ART DRILLING TECHNOLOGY (E.G HIGH EFFICIENCY RIGS, COILED-TUBING UNIT RIGS, CLOSED-LOOP OR PITLESS SYSTEMS, ETC.) TO MINIMIZE DISTURBANCES  RECLAIM MULE DEER AND ELK HABITATS WITH NATIVE SHRUBS, GRASSES, AND FORBS APPROPRIATE TO THE ECOLOGICAL SITE DISTURBED.

Total: 4 comment(s)