

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:

2589624

**Oil and Gas Location Assessment**

☐ New Location ☒ Amend Existing Location Location#: 332739

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:

**332739**

Expiration Date:

**11/17/2013**

☒ 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: JEVIN CROTEAU

Phone: (720) 876-5339

Fax: (720) 876-6339

email: JEVIN.CROTEAU@ENCANA.CO  
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**4. Location Identification:**

Name: ARISTOCRAT ANGUS FEDERAL Number: 0-4-10

County: WELD

QuarterQuarter: NWSW Section: 10 Township: 3N Range: 65W Meridian: 6 Ground Elevation: 4819

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: 1925 feet, from North or South section line: FSL and 510 feet, from East or West section line: FWL

Latitude: 40.237900 Longitude: -104.657370 PDOP Reading: 2.7 Date of Measurement: 06/11/2010

Instrument Operator's Name: JAY KNUTSON

**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"/> <u>4</u>	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"/> <u>4</u>
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: THREE EXISTING WELLS ARE ON LOCATION, ARISTOCRAT ANGUS 13-10, 1-6-10 AND THE AA FEDERAL 2-4-10 AND PLAN TO ADD ONE ADDITIONAL WELL, THE AA FEDERAL 0-4-10.

## 6. Construction:

Date planned to commence construction: 11/01/2010 Size of disturbed area during construction in acres: 3.67  
Estimated date that interim reclamation will begin: 03/01/2011 Size of location after interim reclamation in acres: 1.50  
Estimated post-construction ground elevation: 4819 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: 06/10/2010  
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 20090011

## 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: 5641, public road: 4648, above ground utilit: 4694  
, railroad: 35000, property line: 510

## 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: 70 VALENT SAND, 3 TO 9 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: 828, water well: 1700, depth to ground water: 25

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:

NO H2S IS ANTICIPATED IN DRILLING THIS WELL. PRODUCTION FACILITIES FOR THIS WELL WILL BE LOCATED AT THE BATTERY LOCATED 1070' TO THE WEST.

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

Signed: \_\_\_\_\_ Date: 06/17/2010 Email: JEVIN.CROTEAU@ENCANA.COM

Print Name: JEVIN CROTEAU Title: REGULATORY

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. Neslin*

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

Director of COGCC

Date: 11/18/2010

**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.**

Location is in a sensitive area because of shallow groundwater; therefore, either a lined drilling pit or closed loop system is required

Operator shall provide notice to COGCC (Bo Brown via e-mail at bo.brown@state.co.us) and CDOW (Celia Greenman via e-mail at celia.greenman@state.co.us) fourteen (14) days prior to mobilizing for construction activities. The notice will facilitate CDOW conducting surveys of bald eagle activity at the nearby nest sites and winter roost sites. If bald eagle activity is observed and documented, operations will be prohibited as described in the wildlife COAs. If no bald eagle activity is documented, operator may mobilize to the location and begin oil and gas activities. If at any time during the restricted period of operations, bald eagles become active in proximity to the location, operator will be permitted to complete their current phase of operations and demobilize; operator shall not be permitted to mobilize for or to conduct oil and gas activities beyond the scope of operation underway at the time of initial bald eagle activity, until such operations can be conducted outside the timing restrictions.

If construction, drilling and/or completion activities are conducted during the timing restrictions as described in the previous conditions of approval, operator shall conduct a third party daily survey of bald eagle activity proximate to the location to verify the presence or absence of the birds. The survey shall be conducted during oil and gas activities at times when bald eagle activity is most likely to be observed. Results of the survey shall be reported to COGCC immediately if bald eagles become active in close proximity to the location and a summary report shall be provided within one month of completion of oil and gas activities conducted during the timing restrictions.

**Bald Eagle**

- No human disturbance or construction activity within 0.5 mile of any active bald eagle nest from November 15 to July 31. Activity within 0.5 mile of bald eagle nest sites would be best conducted between August 15 and October 15.
- No surface occupancy or construction within 0.25 mile of any active bald eagle winter night roost site, where there is no direct line of sight to the roost, between December 1 and February 28 and within 0.5 mile of any active bald eagle winter night roost site, where there is a direct line of sight to the roost, between December 1 and February 28.
- No human disturbance within 0.5 mile of any active bald eagle winter roost site from November 15 to March 15 except for periodic visits such as oil maintenance and monitoring. Maintenance and monitoring work within the buffer zone after development should be restricted to the period between 10:00 a.m. and 2:00 p.m.

### Attachment Check List

Att Doc Num	Name	Doc Description
1641975	OTHER	LF@2605127 1641975
1641976	CORRESPONDENCE	LF@2605126 1641976
1641977	CORRESPONDENCE	LF@2605125 1641977
1642006	CORRESPONDENCE	LF@2618357 1642006
2589624	FORM 2A	LF@2494110 2589624
2589625	LOCATION PICTURES	LF@2494039 2589625
2589626	LOCATION PICTURES	LF@2494040 2589626
2589627	LOCATION DRAWING	LF@2494041 2589627
2589628	HYDROLOGY MAP	LF@2494042 2589628
2589629	ACCESS ROAD MAP	LF@2494043 2589629
2589630	NRCS MAP UNIT DESC	LF@2494111 2589630
2589631	MULTI-WELL PLAN	LF@2494038 2589631
2613128	CORRESPONDENCE	LF@2498422 2613128
2613138	CORRESPONDENCE	LF@2501143 2613138

Total Attach: 14 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	10/20 - 11/5 Requested changed construction dates from Encana to comply with timing restrictions. Informed that Encana wishes to keep construction date. Received bald eagle nest survey info from Encana, provided to CDOW for review, worked on additional COA to allow operation within timing restriction if no eagle activity. 11/15/10 Provided additional COAs to Encana for approval. 11/15/10 received approval for additional COAs & attached. RTP.	11/15/2010 8:06:37 AM
OGLA	Received copy of surface owner consent on 10/19/2010	10/20/2010 10:26:52 AM
OGLA	Reminder/request emailed to Jevin.	9/7/2010 9:07:20 AM
OGLA	re-emailed J. Croteau of encana regarding surface owner acceptance of CDOW COAs. w/o since 7/2/2010	8/27/2010 2:16:28 PM
OGLA	placed on hold 8/9/2010. Have been w/o surface owner approval since 7/2/2010. re-emailed request for status update 8/9	8/18/2010 8:15:22 AM
Permit	email from encana dated 8/16/2010 LAnd group is working on it. 8/18/2010 vaw have been w/o surface owner approval since 7/2/2010 vaw change depth to water, distance water well, comments, add COA 6/29/2010 VAW PASSED PERMITTING 7/15/10 LWC	

Total: 6 comment(s)

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