

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:

2589735

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 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:

**418814**

Expiration Date:

**08/17/2013**

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: NICK G. CURRAN  
 Phone: (720) 876-5288  
 Fax: (720) 876-6288  
 email: NICK.CURRAN@ENCANA.COM

4. Location Identification:

Name: SPRAGUE NENW MULTI-WELL PAD Number: 4-2-9  
 County: WELD  
 QuarterQuarter: NENW Section: 9 Township: 2N Range: 67W Meridian: 6 Ground Elevation: 4941  
 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: 1053 feet, from North or South section line: FNL and 1537 feet, from East or West section line: FWL  
 Latitude: 40.157220 Longitude: -104.899030 PDOP Reading: 2.4 Date of Measurement: 01/28/2010  
 Instrument Operator's Name: CRAIG BURKE

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

Special Purpose Pits:  Drilling Pits:  Wells:  Production Pits:  Dehydrator Units:   
 Condensate Tanks:  Water Tanks:  Separators:  Electric Motors:  Multi-Well Pits:   
 Gas or Diesel Motors:  Cavity Pumps:  LACT Unit:  Pump Jacks:  Pigging Station:   
 Electric Generators:  Gas Pipeline:  Oil Pipeline:  Water Pipeline:  Flare:   
 Gas Compressors:  VOC Combustor:  Oil Tanks:  Fuel Tanks:

Other: location does not include Machii Ross well or equipment

6. Construction:

Date planned to commence construction: 08/01/2010 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: 4941 Will a closed loop system be used for drilling fluids: Yes [X]
Will salt sections be encountered during drilling: Yes [ ] No [X] Is H2S anticipated? Yes [ ] No [ ]
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: 07/13/2009
Surface Owner: [X] Fee [ ] State [ ] Federal [ ] Indian [ ]
Mineral Owner: [X] Fee [ ] State [ ] Federal [ ] Indian [ ]
The surface owner is: [X] the mineral owner [X] 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 [X] 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:

[X] Well Surety ID: 20090011 [ ] Gas Facility Surety ID: \_\_\_\_\_ [ ] Waste Mgnt. Surety ID: \_\_\_\_\_

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes [ ] No [X]
Distance, in feet, to nearest building: 1107 , public road: 1038 , above ground utilit: 1082
, railroad: 9100 , property line: 1040

10. Current Land Use (Check all that apply):

Crop Land: [X] 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: [X] 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: 72 VONA LOAMY SAND 0 TO 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 (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: 1165, water well: 1655, depth to ground water: 9

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:

\*\*\*PLEASE NOTE\*\*\* ENCANA WILL BE UTILIZING CLOSE-LOOP SYSTEMS FOR BOTH THE DRILLING RIGS WE WILL BE RUNNING IN THE DJ BASIN. PLEASE TAKE THIS INTO CONSIDERATION. water depth from permit #40411, located in the NWN section 9. Encana Oil & Gas (USA) Inc. requests approval of a Rule 318Ac exception location: Wellhead is to be located more than 50' from an existing well location.

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

Signed: \_\_\_\_\_ Date: 07/13/2010 Email: NICK.CURRAN@ENCANA.COM

Print Name: NICK CURRAN Title: PERMITTING

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: 8/18/2010

**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.

**Attachment Check List**

Att Doc Num	Name	Doc Description
2589735	FORM 2A	LF@2507323 2589735
2589736	LOCATION PICTURES	LF@2507324 2589736
2589737	LOCATION PICTURES	LF@2507325 2589737
2589738	LOCATION DRAWING	LF@2507326 2589738
2589739	HYDROLOGY MAP	LF@2507327 2589739
2589741	ACCESS ROAD MAP	LF@2507328 2589741
2589742	NRCS MAP UNIT DESC	LF@2507329 2589742
2589743	MULTI-WELL PLAN	LF@2507330 2589743
2613218	LOCATION DRAWING	LF@2520397 2613218
2613219	CORRESPONDENCE	LF@2520398 2613219
2613220	LOCATION PICTURES	LF@2520401 2613220
2621817	MULTI-WELL PLAN	LF@2524844 2621817
2621819	SURFACE AGRMT/SURETY	LF@2524998 2621819
2621820	EXCEPTION LOC REQUEST	LF@2525027 2621820
2621821	EXCEPTION LOC WAIVERS	LF@2525028 2621821

Total Attach: 15 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Uploaded SUA, Exception Loc. Request, and Ex Loc Waivers to application as attachments. PVG 8-17-10	8/17/2010 3:08:57 PM
Permit	ON HOLD. Well Counted Exceeded 8 for J. Encana responded that the 4-2-9 well was located in the NE4. Miscount was caused by another inaccurate Multi-well plan. Requested corrected Multi-well plan. PVG	8/13/2010 1:37:31 PM
OGLA	per C. Boles email of 8/9 change facilities to remove Machii Ross well and it's facilities, make sensitive area, change depth to groundwater, add water well permit info into COMMENTS, attach new location drawing, new east/west pictures, correspondence	8/10/2010 8:27:32 AM

<p>OGLA</p>	<p>What I need to know is what is your proposed disturbance and what is currently on that disturbance.</p> <p>More specifically:</p> <p>I am uncertain if this is to amend the existing location ID 327536. What is leading to my uncertainty is that the location drawing is not making it clear as to what will be the proposed disturbed area. And the facilities list 8 wells, but I only see 7 permits and the multi-well diagram shows 7 Encana wells and a Machii- Ross Sprague 1-9. Please clarify.</p> <p>The location pictures do not make sense. The South facing shows a visible improvement to the west that is the same as the visible improvement shown on the facing east photo. Also, the location drawing shows nothing to the east. Please explain or provide correct pictures.</p> <p>Regarding the facilities: beyond the 8 wells vs 7 wells, whose tanks are on the location drawing? I see tanks and separators at a and c ; then another set at e and g. Are any of these part of your proposed location?</p> <p>Regarding ground water:</p> <p>I want to check sensitive area = yes</p> <p>Change depth to water to 9 feet</p> <p>Put in COMMENTS "water depth from permit #40411, located in the NWNE section 9"</p> <p>This water well is in the unconfined aquifer, the depth you used is from the confined aquifer.</p> <p>Lastly, I want to place the following COA:</p> <p>Location is in a sensitive area because of shallow groundwater; therefore, either a lined drilling pit or closed loop system is required.</p>	<p>8/10/2010 8:23:44 AM</p>
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Total: 4 comment(s)

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