

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:  
2558011

**Oil and Gas Location Assessment**

New Location       Amend Existing Location      Location#: 336106

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:  
**336106**  
Expiration Date:  
**08/12/2013**

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: ELMQUIST SENW MULTI-WELL PAD Number: 21-23  
County: WELD  
Quarter: SENW Section: 23 Township: 2N Range: 68W Meridian: 6 Ground Elevation: 4917  
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: 1641 feet, from North or South section line: FNL and 1595 feet, from East or West section line: FWL  
Latitude: 40.126950 Longitude: -104.974070 PDOP Reading: 2.9 Date of Measurement: 05/10/2010  
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: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/>	Wells: <input type="text" value="5"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="4"/>	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"/>
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="text" value="1"/>	Oil Tanks: <input type="text" value="3"/>	Fuel Tanks: <input type="checkbox"/>	

Other: There is 1 separator, 1 oil tank and 1 water tank that are being removed, and the equipment listed above will go in at the time the wells are drilled. Encana is also planning 1 vapor recovery unit at this site. Elmquist 11-23 & Elmquist 0-0-23 will also flow into this tank battery. This will occur when the Elmquist 0-0-23 is drilled.

6. Construction:

Date planned to commence construction: 03/01/2011 Size of disturbed area during construction in acres: 3.67
Estimated date that interim reclamation will begin: 09/01/2011 Size of location after interim reclamation in acres: 0.50
Estimated post-construction ground elevation: 4917 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 [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: 08/11/2008
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: 20100017 [ ] 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: 928 , public road: 1582 , above ground utilit: 1592
, railroad: 18000 , property line: 1016

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

Crop Land: [ ] Irrigated [ ] Dry land [X] 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 [X] 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: OLNEY FINE SANDY LOAM, 1 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: 26, water well: 1905, depth to ground water: 60

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:

Our location construction crew also confirmed that we will temporarily reroute the irrigation ditch around the north side of the pad during drilling & completions and will then restore it in its original place once wells are on production and interim reclamation takes place \*\*\*COMMENT\*\*\*WE ARE SIMPLY AMENDING A PREVIOUSLY APPROVED FORM 2A TO INCLUDE THREE ADDITIONAL WELLS. ON THE ORIGINAL SUBMITTAL, I STATED THAT THESE TWO (NOW THREE) WELLS WOULD EVENTUALLY BE FILED. I HAVE ATTACHED PERTINENT DOCUMENTS WHICH SHOW THESE ADDITIONS TO THE LOCATION DRAWING, ACCESS AND MULTI-WELL MAPS. PLEASE E-MAIL WITH QUESTIONS. \*\*\*PLEASE NOTE\*\*\* WHETHER OR NOT A LOCATION IS DEEMED SENSITIVE, ENCANA WILL BE UTILIZING CLOSE-LOOP SYSTEMS FOR BOTH THE DRILLING RIGS WE WILL BE RUNNING IN THE DJ FOR AT LEAST THE NEXT 3 YEARS. THERE WILL BE NO DRILLING PITS. PLEASE TAKE THIS INTO CONSIDERATION. Well surety ID changed as per directions from operator Nick. SF 6/21/10

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

Signed: \_\_\_\_\_ Date: 06/16/2010 Email: NICK.CURRAN@ENCANA.COM

Print Name: NICK G. 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.

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

*David S. Nashin*

Director of COGCC

Date: 8/13/2010

**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.**

Best management practices shall be in place to ensure that fluid and/or sediment from the location does not enter the irrigation ditch located to the north

**Attachment Check List**

Att Doc Num	Name	Doc Description
2558011	FORM 2A	LF@2492434 2558011
2558012	LOCATION PICTURES	LF@2492502 2558012
2558013	LOCATION PICTURES	LF@2492503 2558013
2558014	LOCATION DRAWING	LF@2492504 2558014
2558015	HYDROLOGY MAP	LF@2492506 2558015
2558016	ACCESS ROAD MAP	LF@2492507 2558016
2558017	NRCS MAP UNIT DESC	LF@2492435 2558017
2558018	MULTI-WELL PLAN	LF@2492508 2558018
2613213	CORRESPONDENCE	LF@2516658 2613213
2613214	LOCATION DRAWING	LF@2516659 2613214
2613215	HYDROLOGY MAP	LF@2516662 2613215
2613216	CONST. LAYOUT DRAWINGS	LF@2516663 2613216
2613217	LOCATION PICTURES	LF@2516664 2613217

Total Attach: 13 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	PERMITTING PASSED . PVG SUA is attached to related Form 2s. (2558035, 2558044, 2558026, 2558019)	8/10/2010 5:57:23 PM

<p>OGLA</p>	<p>From: Boles, Cathi [mailto:Cathi.Boles@encana.com]</p> <p>Sent: Sunday, August 01, 2010 7:28 AM</p> <p>To: Walker, Valerie; Curran, Nick</p> <p>Cc: Deranleau, Greg; Glasgow, Phillip</p> <p>Subject: RE: Form 2A Elmquist SENW multi-well pad 21-23 Form 2A doc 2558011</p> <p>Good morning Valerie,</p> <p>Hope you enjoyed your time off.</p> <p>Per our discussions on Wednesday afternoon, here are the changes by section for the Form 2A Elmquist SENW multi-well pad (Doc 2558011):</p> <p>4. Location identification:</p> <p>Number: 1</p> <p>Footage at surface: 1595' FWL (from King Surveyors "as drilled" plat dated 2-15-08)</p> <p>Longitude: -104.97407 (from King Surveyors "as drilled" plat dated 2-15-08)</p> <p>PDOP: 2.9 (from King Surveyors "as drilled" plat dated 2-15-08)</p> <p>5. Facilities:</p> <p>Wells: 5</p> <p>Water tanks: 1</p> <p>Separators: 4</p> <p>Oil tanks: 3</p> <p>VOC combustor: 1</p> <p>There is 1 separator, 1 oil tank and 1 water tank that are being removed, and the equipment listed above will go in at the time the wells are drilled. Encana is also planning 1 vapor recovery unit at this site, see attached site plan.</p> <p>Other: Elmquist 11-23 &amp; Elmquist 0-0-23 will also flow into this tank battery. This will occur when the Elmquist 0-0-23 is drilled.</p> <p>9. Cultural:</p> <p>Nearest building: 928'</p> <p>Public road: 1582'</p> <p>Above ground utility: 1592'</p> <p>Railroad: 18,000'</p> <p>Property line: 1016'</p> <p>14. Water Resources:</p> <p>Distance to nearest surface water: 26'</p>	<p>8/10/2010 5:49:26 PM</p>
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<p>OGLA</p>	<p>Water well: 1905'</p> <p>I am only attaching the documents that had changes, plus a site plan and photos of the irrigation ditch to give you a better picture of what is out there. Our location construction crew also confirmed that we will temporarily reroute the irrigation ditch around the north side of the pad during drilling &amp; completions and will then restore it in its original place once wells are on production and interim reclamation takes place.</p> <p>Please let me know if you need any additional information.</p> <p>Cathi</p>	<p>8/10/2010 5:49:26 PM</p>
<p>OGLA</p>	<p>after further discussion - put facilities back on. Change location reference for the facility location to existing well. change cultural distances, water resources distances, footages and longitude of location ref. point. attached new location drawing, hydrology map, construction layout drawing, irrigation photos.</p>	<p>8/4/2010 8:56:38 AM</p>
<p>OGLA</p>	<p>strip off production facilities, will be new Form 2A. add comment to facility other regrding tank battery. attach new location drawing. change distance to nearest surface water to 26 feet. add to COMMENTS statement regrding re-route of Waters of the State (irrigation ditch). Add COA.</p>	<p>8/3/2010 3:41:00 PM</p>

Total: 4 comment(s)

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