

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:

2582898

Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 336440

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:

336440

Expiration Date:

08/30/2013☒ 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: WANDELL Number: 2N67W/7SWNW

County: WELD

QuarterQuarter: SWNW Section: 7 Township: 2N Range: 67W Meridian: 6 Ground Elevation: 4874

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: 1941 feet, from North or South section line: FNL and 692 feet, from East or West section line: FWL

Latitude: 40.155250 Longitude: -104.939370 PDOP Reading: 1.8 Date of Measurement: 03/05/2010

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="checkbox"/> <u>8</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"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/> <u>8</u>	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: 5 EXISTING WELLS ARE ON LOCATION: WANDELL 11-7, 12-7, 22-7, 13-7, & 23-7 AND PLAN TO ADD THREE ADDITIONAL WELLS: WANDELL 2-0-7, 0-4-7, & 4-4-7.

6. Construction:

Date planned to commence construction: 09/01/2010 Size of disturbed area during construction in acres: 3.67
Estimated date that interim reclamation will begin: 12/01/2010 Size of location after interim reclamation in acres: 1.50
Estimated post-construction ground elevation: 4874 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: 09/16/2009
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: 567, public road: 260, above ground utilit: 248
, railroad: 363, property line: 184

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: 73 - VONA LOAMY SAND, 3 TO 5 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: 333, water well: 1876, depth to ground water: 27

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:

ACCORDING TO THE CO DWR WEB SITE THE NEAREST WATER WELL, PERMIT #6379F, IS LOCATED 1876' AWAY AND HAS A STATIC WATER LEVEL OF 27'. NO H2S IS ANTICIPATED IN DRILLING THESE WELLS. THE WELLS WILL FLOW TO THE WANDELL C UNIT #1 BATTERY LOCATED 920' TO THE NORTH NORTHEAST. THIS LOCATION WAS ORIGINALLY APPROVED ON 3/2/10 WITH PLANS TO ADD TWO NEW WELLS. WE ARE NOW PLANNING TO ADD THREE ADDITIONAL WELLS FOR A TOTAL OF EIGHT TO THIS LOCATION. THE TWO WELLS WE ORIGINALLY PLANNED TO ADD HAVE HAD THEIR SHL MOVED SLIGHTLY TO ACCOMMODATE ADDING THE THIRD WELL. Abandoned railroad 403 feet away.

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

Signed: _____ Date: 07/01/2010 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: 8/31/2010

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.

Attachment Check List

Att Doc Num	Name	Doc Description
2582898	FORM 2A APPROVED	LF@2533878 2582898
2582899	LOCATION PICTURES	LF@2501574 2582899
2582900	LOCATION PICTURES	LF@2501575 2582900
2582901	LOCATION DRAWING	LF@2501576 2582901
2582902	HYDROLOGY MAP	LF@2501577 2582902
2582903	ACCESS ROAD MAP	LF@2501578 2582903
2582904	NRCS MAP UNIT DESC	LF@2501572 2582904
2613184	CORRESPONDENCE	LF@2509909 2613184
2621858	MULTI-WELL PLAN	LF@2531102 2621858
400089656	FORM 2A	LF@2501571 400089656

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Uploaded New Multi-well Plan to application as attachment. Deleted old document. New document reflects new BHL for the Wandell 4-4-7 in the SW/4 to correct 9 count in NW/4. PVG	8/26/2010 4:52:39 PM
Permit	Per Jevin Croteau, change right to construct from "oil and gas lease" to "Bond".	8/17/2010 10:26:36 AM
CDPHE	CDPHE consultation is not triggered with this application.	8/10/2010 6:08:33 PM

<p>OGLA</p>	<p>From: Croteau, Jevin [mailto:Jevin.Croteau@encana.com]</p> <p>Sent: Tuesday, July 20, 2010 12:53 PM</p> <p>To: Walker, Valerie</p> <p>Cc: Coler, Larry; Deranleau, Greg</p> <p>Subject: RE: Form 2A doc #2582898 Wandell 2n67w/7SWNW</p> <p>Valerie,</p> <p>In response to your questions regarding security, there will be folks on location 24/7 during drilling and completion operations and security fencing will be in place around the site during the same operations.</p> <p>Regarding noise, the rigs have mufflers on their engines for sound mitigation and this location will still go through the special use review at the Town of Firestone and other sound mitigation practices may be discussed if needed during that that time.</p> <p>I hope this answers all your questions regarding this location, please let me know if you have any other questions.</p> <p>Thanks,</p> <p>Jevin</p>	<p>8/10/2010 2:11:54 PM</p>
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Total: 5 comment(s)

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