

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:

2590204

Oil and Gas Location Assessment

☐ New Location
 ☒ Amend Existing Location
 Location#: 335769

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:

335769

Expiration Date:

10/22/2013☒ 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: ERIE CHAMPLIN Number: 1N68W18NENE

County: WELD

QuarterQuarter: NENE Section: 18 Township: 1N Range: 68W Meridian: 6 Ground Elevation: 5073

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: 1128 feet, from North or South section line: FNL and 1003 feet, from East or West section line: FEL

Latitude: 40.055130 Longitude: -105.040690 PDOP Reading: 1.6 Date of Measurement: 06/14/2010

Instrument Operator's Name: TOM WINANS

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" value="8"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="5"/>	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" value="8"/>	Oil Pipeline: <input type="text" value="3"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="3"/>	Fuel Tanks: <input type="text"/>	

Other: THE ERIE CHAMPLIN B UNIT #1 WELL AND FACILITIES ARE EXISTING AND WE PLAN TO ADD 7 ADDITIONAL WELLS AND THEIR FACILITIES INCLUDED IN THE NUMBERS ABOVE.

6. Construction:

Date planned to commence construction: 05/01/2011 Size of disturbed area during construction in acres: 3.67
Estimated date that interim reclamation will begin: 10/01/2011 Size of location after interim reclamation in acres: 1.50
Estimated post-construction ground elevation: 5073 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: 06/14/2010
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 _____

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: 528, public road: 986, above ground utilit: 1075
, railroad: 254, property line: 226

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: 36 - MIDWAY-SHINGLE COMPLEX, 5 TO 20 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: 408, water well: 1204, depth to ground water: 20

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 #53218, IS LOCATED 1204' AWAY AND HAS A STATIC WATER LEVEL OF 20'. NO H2S IS ANTICIPATED. THE SEVEN ADDITIONAL ERIE CHAMPLIN WELLS WE PLAN TO DRILL AT THIS LOCATION INCLUDE; 31-18, 41-18, 32-18, 42-18, 6-0-18, 4-2-18 & 8-2-18. ALL DISTANCES AND THE SINGLE POINT AS A LOCATION REFERENCE FOR THIS LOCATION ARE MEASURED FROM THE PROPOSED ERIE CHAMPLIN 4-2-18 WELL STATE. Surface Use Agreement attached to related Form 2's.

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

Signed: _____ Date: 09/15/2010 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: 10/23/2010

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.

Prior to pad construction Encana will gauge and sample the five monitoring wells shown on the attached Location Drawing. The five monitoring wells will be gauged for static water level. If water is present, water quality samples be collected and submitted to an accredited laboratory. If the monitoring wells are dry the wells will be abandoned in accordance with the Water Well Construction Rules (2 CCR 402-2) and documentation submitted to the COGCC.

Laboratory analysis will consist of the following chemical constituents:

- Benzene, Toluene, Ethyl benzene, Xylenes (BTEX),
- Sodium Adsorption Ratio (SAR),
- Total dissolved solids (TDS)
- Diesel Range Organics (DRO),
- Gasoline Range Organics (GRO),
- Chloride, and
- Sulfate

Field Parameters that should to be collected in the field include the following:

- Depth to water,
- pH,
- Conductivity and
- Temperature.

If all collected samples meet the requirements of COGCC Table 910-1 and CDPHE basic standard for groundwater, Encana will abandon the monitoring wells in accordance with the Water Well Construction Rules (2 CCR 402-2) and documentation submitted to the COGCC. If any analytes exceed the Table 910-1 concentrations, the monitoring wells will be registered with the Colorado State Engineer's Office (SEO), a Spill/Release Report (Form 19) will be submitted to the COGCC in accordance with rule 906.b. and a Site Investigation and Remediation Workplan (Form 27) will be submitted to the COGCC within 30 days of the form 19.

Attachment Check List

Att Doc Num	Name	Doc Description
2533008	CORRESPONDENCE	LF @ 2606303 2533008
2590204	FORM 2A	LF @ 2542994 2590204
2590205	LOCATION PICTURES	LF @ 2542998 2590205
2590206	LOCATION PICTURES	LF @ 2542999 2590206
2590207	LOCATION DRAWING	LF @ 2543000 2590207
2590208	HYDROLOGY MAP	LF @ 2543001 2590208
2590209	ACCESS ROAD MAP	LF @ 2543002 2590209
2590210	NRCS MAP UNIT DESC	LF @ 2542995 2590210
2590211	MULTI-WELL PLAN	LF @ 2543003 2590211

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	During the final review before passing the question was raised regarding 5 monitoring wells surrounding the existing facilities. The wells are not registered with the DWR and no information was in the COGCC records about any kind of release. The 2A is on hold until Encana provides information regarding the wells to the COGCC.	10/13/2010 11:28:35 AM
OGLA	The location is in a sensitive area due to the presence of shallow ground water. No COAs will added because Encana has stated that a closed loop system will be used during drilling.	10/12/2010 8:57:51 AM
OGLA	Placed ON HOLD for further discussion.	10/11/2010 3:09:59 PM

Total: 3 comment(s)

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