

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Date Received:

05/28/2013

PluggingBond SuretyID

20100017

## APPLICATION FOR PERMIT TO:

1.  Drill,  Deepen,  Re-enter,  Recomplete and Operate

### 2. TYPE OF WELL

OIL  GAS  COALBED  OTHER \_\_\_\_\_  
SINGLE ZONE  MULTIPLE  COMMINGLE

Refiling

Sidetrack

3. Name of Operator: ENCANA OIL & GAS (USA) INC

4. COGCC Operator Number: 100185

5. Address: 370 17TH ST STE 1700

City: DENVER State: CO Zip: 80202-5632

6. Contact Name: Erin Hochstetler Phone: (720)876-5827 Fax: ()

Email: erin.hochstetler@encana.com

7. Well Name: Grant Elmquist Well Number: 2D-14H C268

8. Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

9. Proposed Total Measured Depth: 14091

## WELL LOCATION INFORMATION

10. QtrQtr: NENW Sec: 14 Twp: 2N Rng: 68W Meridian: 6

Latitude: 40.143860 Longitude: -104.973790

Footage at Surface: 796 feet FNL 1673 feet FWL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4881 13. County: WELD

### 14. GPS Data:

Date of Measurement: 05/03/2013 PDOP Reading: 1.7 Instrument Operator's Name: JOHN RICE

15. If well is  Directional  Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_ Bottom Hole: FNL/FSL \_\_\_\_\_ FEL/FWL \_\_\_\_\_  
1176 FNL 1283 FWL 2192 FNL 1375 FWL  
Sec: 14 Twp: 2N Rng: 68W Sec: 23 Twp: 2N Rng: 68W

16. Is location in a high density area? (Rule 603b)?  Yes  No

17. Distance to the nearest building, public road, above ground utility or railroad: 370 ft

18. Distance to nearest property line: 71 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 92 ft

## 20. LEASE, SPACING AND POOLING INFORMATION

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
CODELL	CODL		480	GWA

21. Mineral Ownership:  Fee  State  Federal  Indian Lease #: \_\_\_\_\_

22. Surface Ownership:  Fee  State  Federal  Indian

23. Is the Surface Owner also the Mineral Owner?  Yes  No Surface Surety ID#:

23a. If 23 is Yes: Is the Surface Owner(s) signature on the lease?  Yes  No

23b. If 23 is No:  Surface Owners Agreement Attached or  \$25,000 Blanket Surface Bond  \$2,000 Surface Bond  \$5,000 Surface Bond

24. Using standard QtrQtr, Sec, Twp, Rng format enter entire mineral lease description upon which this proposed wellsite is located (attach separate sheet/map if you prefer):  
 T2N, R68W Section 14: E/2NW/4 and other lands. Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.

25. Distance to Nearest Mineral Lease Line: 0 ft                      26. Total Acres in Lease: 398

**DRILLING PLANS AND PROCEDURES**

27. Is H2S anticipated?     Yes                       No    If Yes, attach contingency plan.

28. Will salt sections be encountered during drilling?     Yes                       No

29. Will salt (>15,000 ppm TDS CL) or oil based muds be used during drilling?     Yes                       No

30. If questions 28 or 29 are yes, is this location in a sensitive area (Rule 901.e)?     Yes                       No

31. Mud disposal:     Offsite     Onsite                      **If 28, 29, or 30 are "Yes" a pit permit may be required.**

Method:     Land Farming                       Land Spreading                       Disposal Facility                      Other: \_\_\_\_\_

Note: The use of an earthen pit for Recompletion fluids requires a pit permit (Rule 905b). If air/gas drilling, notify local fire officials.

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	22	16	30	0	80	80	80	0
SURF	12+1/4	9+5/8	40	0	800	100	800	0
1ST	8+3/4	7	26	0	7,750	439	7,750	500
2ND	6+1/8	4+1/2	13.5	0	14,090	253	14,090	7,450

32. BOP Equipment Type:     Annular Preventer                       Double Ram                       Rotating Head                       None

33. Comments    Encana requests the approval of a 318A(l).a.(1), 318A(l).c(1) and 603.a(2) exception location as the well head is to be located outside of a GWA drilling window, further than 50' from an existing well and closer than 150' to a property line. Request letter and waivers attached. This well is closer than 150' to the nearest permitted or producing BHL. A 318A.m. variance request letter and waivers are attached. Encana also requests the approval of the omission of open hole logs, request letter attached. Proposed spacing unit is T2N R68W Section 14: W/2 Section 23: NW/4. Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is greater than 460'. The distance to nearest well permitted/completed in the same formation (BHL) was measured from the Grant Salisbury 2D-14H which has not yet been drilled.

34. Location ID: \_\_\_\_\_

35. Is this application in a Comprehensive Drilling Plan ?     Yes                       No

36. Is this application part of submitted Oil and Gas Location Assessment ?     Yes                       No

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

Signed: \_\_\_\_\_                      Print Name: Erin Hochstetler

Title: Permitting Technician                      Date: 5/28/2013                      Email: erin.hochstetler@encana.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: Matthew Lee                      Director of COGCC                      Date: 6/28/2013

**API NUMBER**

05 123 37643 00

Permit Number: \_\_\_\_\_                      Expiration Date: 6/27/2015

**CONDITIONS OF APPROVAL, IF ANY:**

\_\_\_\_\_

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

Operator must meet water well testing requirements per Rule 318A.

- 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU..
- 2) Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara and from 200' below Shannon to 200' above Sussex. Verify coverage with cement bond log.
- 3) Comply with Rule 321. Run and submit Directional Survey from TD to base of surface casing. Ensure that the wellbore complies with setback requirements in commission orders or rules prior to producing the well.

### **Applicable Policies and Notices to Operators**

Notice Concerning Operating Requirements for Wildlife Protection.

Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area.

### **Attachment Check List**

Att Doc Num	Name
1695715	LEASE MAP
400414122	FORM 2 SUBMITTED
400419717	WELL LOCATION PLAT
400419719	30 DAY NOTICE LETTER
400421768	DEVIATED DRILLING PLAN
400421770	DIRECTIONAL DATA
400421935	OTHER
400421944	PROPOSED SPACING UNIT
400421945	EXCEPTION LOC REQUEST
400423489	VARIANCE REQUEST
400423492	OFFSET WELL EVALUATION
400424432	EXCEPTION LOC WAIVERS

Total Attach: 12 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Final Review Completed. No LGD or public comment received.	6/27/2013 9:02:05 AM
Permit	Received and attached Mineral lease for SHL. Per operator total acreage for the Elmquist wells is 398'. Surface owner is mineral owner. removed surface bond #. ON HOLD: w/o form 2A.	6/21/2013 12:35:34 PM
Permit	Request for 603.b under Exception loc request. Waiver under Exception loc waiver. ON HOLD: requesting Mineral lease for SHL. Clarification of surface owner is mineral owner.	3/3/2013 9:20:47 AM
Permit	Operator requests approval of a Rule 318Am exception location: Wellbore is to be located less than 150' from an existing wellbore. Request and waivers attached.	3/3/2013 9:20:45 AM
Permit	Operator requests approval of a Rule 318Aa and Rule 318Ac exception location: Wellhead is to be located outside of a GWA drilling window and will be located more than 50' from an existing well location. Request and waivers attached.	3/3/2013 9:20:44 AM
Permit	Operator's request for omission of open hole logs.	3/3/2013 9:20:43 AM
Permit	Horizontal wellbore crosses lease lines within drilling and spacing unit; distance to lease line is 0'; distance to unit boundary is 460'.	3/3/2013 9:20:42 AM
Permit	This form has passed completeness.	5/29/2013 11:33:15 AM

Total: 8 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>
Drilling/Completion Operations	Prior to drilling operations, Operator will perform an anti-collision scan of existing offset wells that have the potential of being within close proximity of the proposed well. This anti-collision scan will include definitive MWD or gyro surveys of the offset wells with included error of uncertainty per survey instrument, and compared against the proposed wellpath with its respective error of uncertainty. If current surveys do not exist for the offset wells, Operator may have gyro surveys conducted to verify bottomhole location. The proposed well will only be drilled if the anti-collision scan results indicate that there is not a risk for collision, or harm to people or the environment. For the proposed well, upon conclusion of drilling operations, an as-constructed gyro survey will be submitted to COGCC with the Form 5.
Drilling/Completion Operations	Encana will comply with the "COGCC Policy for Bradenhead Monitoring During Hydraulic Fracturing Treatments in the Greater Wattenberg Area", dated May 29, 2012.

Total: 2 comment(s)