

FORM
2

Rev
12/05

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:

2582890

Plugging Bond Surety

20100017

APPLICATION FOR PERMIT TO:

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

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER _____
SINGLE ZONE ☐ MULTIPLE ZONE ☒ COMMINGLE ZONE ☒

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: JEVIN CROTEAU Phone: (720)876-5339 Fax: (720)876-6339
Email: JEVIN.CROTEAU@ENCANA.COM

7. Well Name: WANDELL Well Number: 4-4-7

8. Unit Name (if appl): _____ Unit Number: _____

9. Proposed Total Measured Depth: 8277

WELL LOCATION INFORMATION

10. QtrQtr: SWNW Sec: 7 Twp: 2N Rng: 67W Meridian: 6

Latitude: 40.155250 Longitude: -104.939370

Footage at Surface: 1941 FNL/FSL FNL 692 FEL/FWL FWL

11. Field Name: WATTENBERG Field Number: 90750

12. Ground Elevation: 4874 13. County: WELD

14. GPS Data:

Date of Measurement: 03/05/2010 PDOP Reading: 1.8 Instrument Operator's Name: CRAIG BURKE

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

Footage at Top of Prod Zone: FNL/FSL 2645 FSL 2309 FWL 2645 FSL 2309 FWL
Sec: 7 Twp: 2N Rng: 67W Sec: 7 Twp: 2N Rng: 67W

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: 248 ft

18. Distance to nearest property line: 184 ft 19. Distance to nearest well permitted/completed in the same formation: 697 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	407	160	GWA
J SAND	JSND	232	160	GWA
NIOBRARA	NBRR	407	160	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#: 20090011

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 Bon ☐ \$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):
ALL OF SECTION 7, T2N, R67W EXCEPT FOR LOTS AND BLOCKS LOCATED IN THE TOWN OF HARNEY (SW/4).

25. Distance to Nearest Mineral Lease Line: 1775 ft 26. Total Acres in Lease: 545

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 27 or 28 are yes, is this location in a sensitive area (Rule 903)? ☐ Yes ☐ No If 28, 29, or 30 are "Yes" a pit permit may be required.

31. Mud disposal: ☒ Offsite ☐ Onsite

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	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bottom	Cement Top
SURF	12+1/4	8+5/8	24	650	280	650	0
1ST	7+7/8	4+1/2	11.6	8,277	270	8,277	7,248

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

33. Comments NO CONDUCTOR CASING WILL BE USED. NO CONDUCTOR CASING WILL BE USED. PROPOSED GWA UNIT CONFIGURATION FOR NB-CD & J-SAND: SENW, SWNE, NWSE, NESW ;

34. Location ID: 336440

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: JEVIN CROTEAU

Title: REGULATORY Date: 7/1/2010 Email: JEVIN.CROTEAU@ENCANA.C

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. Neslin Director of COGCC Date: 8/31/2010

API NUMBER

05 123 32139 00

Permit Number: _____ Expiration Date: 8/30/2012

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.

- 1) Provide 24 hour notice of MIRU to Jim Precup at 303-469-1902 or e-mail at james.precup@state.co.us
- 2) Comply with Rule 317.i and provide cement coverage from TD 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.

Attachment Check List

Att Doc Num	Name	Doc Description
2582890	APD ORIGINAL	LF@2501533 2582890
2582892	TOPO MAP	LF@2501581 2582892
2582893	MINERAL LEASE MAP	LF@2501582 2582893
2582894	30 DAY NOTICE LETTER	LF@2501535 2582894
2621859	WELL LOCATION PLAT	LF@2531106 2621859
2621860	PROPOSED SPACING UNIT	LF@2531107 2621860
2621861	DEVIATED DRILLING PLAN	LF@2533256 2621861

Total Attach: 7 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Uploaded new directional survey to application as attachment. PVG	8/31/2010 10:18:49 AM
Permit	Per Jevin Croteau, Change SUA attached to Blanket Bond. Uploaded new 20 day cert and proposed spacing unit, and new well location plat reflecting new BHL in SW4. Requested directional survey consistent with new BHL. Deleted old documents. PVG	8/26/2010 4:57:18 PM
Permit	Application states SUA attached. Form 2A states oil and gas lease gives right to contract. Called Jevin Croteau and verified the following. Surface owner is not the mineral owner, Surface owner did not sign the lease, and there is no SUA. Per Jevin Croteau, Encana is bonding on with blanket surface bond. PVG 8-17-10	8/17/2010 10:21:39 AM
Permit	To resolve well count, Encana will move the productive interval from the SENW to the NESW. Requested new 20 day cert and proposed spacing unit. Requested to change 22b from "SUA is attached" to "Blanket Bond" Requested to Well Location Plat. PVG 8-17-10	8/17/2010 10:15:58 AM
Permit	ON HOLD, Well Count is 9 wells for the NB-CD and J sand including this well. Emailed Jevin for resolution.	8/17/2010 9:37:56 AM

Total: 5 comment(s)

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