


<b>FORM</b> <b>2</b> Rev 12/05	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DE</td> <td style="width: 25%;">ET</td> <td style="width: 25%;">OE</td> <td style="width: 25%;">ES</td> </tr> </table>	DE	ET	OE	ES
DE	ET	OE	ES				
<b>APPLICATION FOR PERMIT TO:</b>			Document Number: <div style="text-align: center;">400136929</div> Plugging Bond Surety <div style="text-align: center;">20100017</div>				
1. <input checked="" type="checkbox"/> <b>Drill,</b> <input type="checkbox"/> Deepen, <input type="checkbox"/> Re-enter, <input type="checkbox"/> Recomplete and Operate							
2. TYPE OF WELL OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> COALBED <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> COMMINGLE ZONE <input type="checkbox"/>		Refiling <input type="checkbox"/> Sidetrack <input type="checkbox"/>					
3. Name of Operator: <u>ENCANA OIL &amp; GAS (USA) INC</u>		4. COGCC Operator Number: <u>100185</u>					
5. Address: <u>370 17TH ST STE 1700</u> City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202-5632</u>							
6. Contact Name: <u>JENNIFER LIND</u> Phone: <u>(720)876-5890</u> Fax: <u>(720)876-6890</u> Email: <u>JENNIFER.LIND@ENCANA.COM</u>							
7. Well Name: <u>HERREN</u>		Well Number: <u>1A-33H</u>					
8. Unit Name (if appl): _____		Unit Number: _____					
9. Proposed Total Measured Depth: <u>11609</u>							
<b>WELL LOCATION INFORMATION</b>							
10. QtrQtr: <u>NENE</u> Sec: <u>33</u> Twp: <u>3N</u> Rng: <u>67W</u> Meridian: <u>6</u> Latitude: <u>40.188800</u> Longitude: <u>-104.886690</u>							
Footage at Surface: <u>246</u> feet    FNL/FSL <u>FNL</u> <u>253</u> feet    FEL/FWL <u>FEL</u>							
11. Field Name: <u>WATTENBERG</u>		Field Number: <u>90750</u>					
12. Ground Elevation: <u>4824</u>		13. County: <u>WELD</u>					
14. GPS Data: Date of Measurement: <u>02/17/2011</u> PDOP Reading: <u>0.9</u> Instrument Operator's Name: <u>ALEX PERKINS</u>							
15. If well is <input type="checkbox"/> Directional <input checked="" type="checkbox"/> Horizontal (highly deviated) <b>submit deviated drilling plan.</b> Footage at Top of Prod Zone:    FNL/FSL    FEL/FWL    Bottom Hole:    FNL/FSL    FEL/FWL <div style="display: flex; justify-content: space-around;"> <span><u>1030</u>    <u>FNL</u>    <u>474</u>    <u>FEL</u></span> <span><u>1325</u>    <u>FNL</u>    <u>460</u>    <u>FWL</u></span> </div> Sec: <u>33</u> Twp: <u>3N</u> Rng: <u>67W</u> Sec: <u>33</u> Twp: <u>3N</u> Rng: <u>67W</u>							
16. Is location in a high density area? (Rule 603b)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
17. Distance to the nearest building, public road, above ground utility or railroad: <u>229 ft</u>							
18. Distance to nearest property line: <u>246 ft</u> 19. Distance to nearest well permitted/completed in the same formation: <u>206 ft</u>							
<b>LEASE, SPACING AND POOLING INFORMATION</b>							
Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">NIOBRARA</td> </tr> </table>	NIOBRARA	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">NBRR</td> </tr> </table>	NBRR	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">407</td> </tr> </table>	407	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">320</td> </tr> </table>	320
NIOBRARA							
NBRR							
407							
320							
Unit Configuration (N/2, SE/4, etc.) <div style="text-align: center;">GWA</div>							

**IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.**

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 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):  
T3N-R67W-SEC.33: NW/4; T3N-R67W-SEC.33: NE/4 (LEASES LISTED HERE ARE 2 SEPARATE LEASES. SINCE PRODUCTION WILL BE ESTABLISHED ON BOTH LEASES, THE ACREAGES FOR THE LEASES HAVE BEEN ADDED TOGETHER FOR "TOTAL ACRES IN LEASE".)

25. Distance to Nearest Mineral Lease Line: 460 ft 26. Total Acres in Lease: 320

**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
SURF	12+1/4	9+5/8	40	0	800	166	800	0
1ST	8+3/4	7	26	0	7,340	582	7,340	500
2ND	6+1/8	4+1/2	13.5	0	11,609	0		

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

33. Comments NO CONDUCTOR CASING WILL BE UTILIZED. ENCANA REQUESTS APPROVAL OF RULE 318A.a AND RULE 318A.c EXCEPTION LOCATION. WELLHEAD TO BE LOCATED OUTSIDE OF GWA DRILLING WINDOW AND GREATER THAN 50' FROM AN EXISTING WELL. WAIVERS ARE ATTACHED. PROPOSED WELLBORE SPACING UNIT FOR THE HORIZONTAL WILL BE N/2

34. Location ID: 421058

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: JENNIFER LIND

Title: REGULATORY ANALYST Date: 2/28/2011 Email: JENNIFER.LIND@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: 3/31/2011

Permit Number: \_\_\_\_\_ Expiration Date: 3/30/2013

**API NUMBER**

05 123 33249 00

**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 Bo Brown at 970-397-4124 or e-mail at bo.brown@state.co.us.
- 2) Comply with Rule 317.i and provide cement coverage from end of 7" casing to a minimum of 200' above Niobrara. 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
2537256	DEVIATED DRILLING PLAN
400136929	FORM 2 SUBMITTED
400137049	WELL LOCATION PLAT
400137052	30 DAY NOTICE LETTER
400137054	EXCEPTION LOC REQUEST
400137064	PROPOSED SPACING UNIT
400137065	MINERAL LEASE MAP
400137426	TOPO MAP
400137494	SURFACE AGRMT/SURETY
400138374	EXCEPTION LOC WAIVERS

Total Attach: 10 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	<p>NOTED---Parker #1---As discussed, this is for the J-Sand, and maybe not specific to #19, but I did have the following concern</p> <p>-From log- The cement top within the production string appears to be 6850/6860' TVD</p> <p>The wellbore appears to be roughly 230' from the horizontal which is at planned 7010' TVD (Could the backside of the uncemented production casing be "fracked" into?)</p> <p>Parker #4-2-33—This is permitted and producing from the Niobrara- This looks to be around 250' away from the horizontal wellbore.</p> <p>--Also the estimated cement top for this well is roughly 6600MD/6510 TVD and would be around 500 FT above the horizontal passing below (rough visualization).</p>	3/14/2011 8:49:36 AM
Permit	---HOLD OFF-Anticollision Report Included with drilling plan highlighting wellbore distance	3/10/2011 12:53:17 PM
Permit	----==This well will be 49' from excepted well 123-32810- Herren #6-0-33 and falls under 318.a.c.(3). Also, Exception requests and surface owner waivers attached.	3/8/2011 6:04:52 PM
Permit	---ON HOLD-Waiting on info from operator-Provide correct distance to nearest wellbore (#19).	3/8/2011 4:29:38 PM
Permit	Back to draft for reloading of waiver that is illegible. sf	3/1/2011 2:13:45 PM

Total: 5 comment(s)

**BMP**

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)