

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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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 ☐

Document Number:

2093363

Plugging Bond Surety

20010102

3. Name of Operator: PETRO-CANADA RESOURCES (USA) INC

4. COGCC Operator Number: 72085

5. Address: 999 18TH ST STE 600

City: DENVER State: CO Zip: 80202-2499

6. Contact Name: JAN KAJIWARA Phone: (303)297-2300 Fax: (303)297-7708

Email: JKAJIWARA@SUNCOR.COM

7. Well Name: DF RANCH Well Number: 1161-8-12

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

9. Proposed Total Measured Depth: 8213

WELL LOCATION INFORMATION

10. QtrQtr: NWNE Sec: 8 Twp: 11N Rng: 61W Meridian: 6

Latitude: 40.941690 Longitude: -104.226970

Footage at Surface: 660 FNL/FSL FNL 1980 FEL/FWL FEL

11. Field Name: GROVER Field Number: 33380

12. Ground Elevation: 5256 13. County: WELD

14. GPS Data:

Date of Measurement: 09/22/2009 PDOP Reading: 1.8 Instrument Operator's Name: DARREN VEAL

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 _____

Sec: _____ Twp: _____ Rng: _____ Sec: _____ Twp: _____ Rng: _____

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: 1980 ft

18. Distance to nearest property line: 660 ft 19. Distance to nearest well permitted/completed in the same formation: 1850 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.)
DAKOTA	DKTA		40	NWNE
J SAND	JSND		40	NWNE
NIOBRARA/CODELL	NB-CD		40	NWNE

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):
SEE ATTACHED.

25. Distance to Nearest Mineral Lease Line: 660 ft 26. Total Acres in Lease: 8337

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	26	625	313	625	0
1ST	7+7/8	5+1/2	17	8,213	100	8,213	7,388
			Stage Tool	7,288	800	7,288	400

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

33. Comments CONDUCTOR CASING WILL NOT BE UTILIZED.

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: JAN KAJIWARA

Title: REGULATORY Date: 12/23/2009 Email: JKAJIWARA@SUNCOR.COM

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: 1/26/2010

API NUMBER

05 123 31076 00

Permit Number: _____ Expiration Date: 1/25/2012

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.

COGCC ENG COA - SME 1) Note surface casing setting depth change from 400' to 650'. Increase cement coverage accordingly and cement to surface. Set surface casing per Rule 317d, setting surface casing less than the approved depth is a permit violation unless prior written approval is obtained from the COGCC. 2) Provide 24 hr notice of spud to Colby Horton at 970-467-2517 or e-mail at colby.horton @state.co.us . 3) If completed, cement coverage shall be at a minimum from the TD to 200' above Niobrara and at minimum set stage cement from 1250' to 50' above the surface casing shoe. Verify all placed cement with cement bond log and cementing tickets. 4) If dry hole, set 60 sks cement from 50' below D Sand base to 100' above D Sand top, 40 sks cement 50' above Niobrara top, 40 sks cement 1350', 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole. Restore surface location.

COGCC ENG COA - SME 1) Note surface casing setting depth change from 400' to 625'. Increase cement coverage accordingly and cement to surface. Set surface casing per Rule 317d, setting surface casing less than the approved depth is a permit violation unless prior written approval is obtained from the COGCC. 2) Provide 24 hr notice of spud to Colby Horton at 970-467-2517 or e-mail at colby.horton @state.co.us . 3) If completed, cement coverage shall be at a minimum from the TD to 200' above Niobrara and at minimum set stage cement from 1250' to 50' above the surface casing shoe. Verify all placed cement with cement bond log and cementing tickets. 4) If dry hole, set 60 sks cement from 50' below D Sand base to 100' above D Sand top, 40 sks cement 50' above Niobrara top, 40 sks cement 1350', 50 sks cement ½ out, ½ in surface casing, 10 sks cement top of surface casing, cut 4' below GL, weld on plate, 5 sks cement in rat hole & 5 sks cement in mouse hole. Restore surface location.

Attachment Check List

Att Doc Num	Name	Doc Description
2063659	SELECTED ITEMS REPORT	LF@2212006 2063659.00000
2093363	APD ORIGINAL	LF@2202985 2093363
2093365	WELL LOCATION PLAT	LF@2202986 2093365
2093366	TOPO MAP	LF@2202987 2093366
2093367	LEGAL/LEASE DESCRIPTION	LF@2202988 2093367
2093368	30 DAY NOTICE LETTER	LF@2202989 2093368
400024590	FORM 2 SUBMITTED	LF@2207235 400024590

Total Attach: 7 Files

Error: Subreport could not be shown.