

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

Document Number:
400242479

PluggingBond SuretyID
20090080

3. Name of Operator: GREAT WESTERN OIL & GAS COMPANY LLC 4. COGCC Operator Number: 10110

5. Address: 700 AUTOMATION DR - UNIT A
City: WINDSOR State: CO Zip: 80550-3119

6. Contact Name: Janni Keidel Phone: (303)398-0388 Fax: (866)742-1784
Email: jkeidel@gwogco.com

7. Well Name: Raindance Well Number: 30-54

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

9. Proposed Total Measured Depth: 7647

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 30 Twp: 6N Rng: 67W Meridian: 6
Latitude: 40.451200 Longitude: -104.928520

Footage at Surface: 188 feet FSL 560 feet FEL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4985 13. County: WELD

14. GPS Data:
Date of Measurement: 12/28/2011 PDOP Reading: 1.9 Instrument Operator's Name: C. Manmatre

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

1290 FSL 1242 FEL 1290 FSL 1242 FEL

Sec: 30 Twp: 6N Rng: 67W Sec: 30 Twp: 6N 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: 600 ft

18. Distance to nearest property line: 188 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 1952 ft

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.)
Niobrara-Codell	NB-CD	407-87	160	SE/4

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):

Lease map for Rec #3776517, Sec. 30: SE/4, Lot 1 (80.00) aka E/2SW/4 and Lot 2 (74.00) aka W/2SW/4 (also described as S/2), LESS a 2.57 acre parcel conveyed to the Town of Windsor in Rec. # 1781453 of the Weld County Records. Great Western owns the mineral rights.

25. Distance to Nearest Mineral Lease Line: 925 ft 26. Total Acres in Lease: 311

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	8+5/8	24	0	850	500	850	0
1ST	7+7/8	4+1/2	11.6	0	7,647	267	7,647	6,853

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

33. Comments Conductor casing will not be set. Conductor casing will not be set. A total of 4 wells will be drilled from this location: Raindance 30-44 (Doc#400242519), Raindance 30-43 (Doc#400242567), Raindance 30-34 (Doc #400242578). Surface Exception Waiver letter has been executed without protest from surface owner, and letter submitted with this permit. Great Western Oil & Gas owns the mineral rights. Production Casing cement will be minimum 200' above the Niobrara.

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: Janni Keidel

Title: Permit/Reg Analyst Date: 1/20/2012 Email: jkeidel@gwogco.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: 2/26/2012

API NUMBER

05 123 35170 00

Permit Number: _____ Expiration Date: 2/25/2014

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) Note surface casing setting depth change from 600' to 850'. Increase cement coverage accordingly.
- 2) Provide 24 hour notice of MIRU to COGCC inspector Jim Precup via e-mail at james.precup@state.co.us Indicate Spud Notice in the subject line and provide the following information: Operator Name, Well Name and Number, API #, Spud Date, Contact Name, Contact Phone #, E-mail Address.
- 3) Comply with Rule 317.i and provide cement coverage from TD to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 4) Run and submit Directional Survey from TD to base of surface casing. The operator shall comply with Rule 321, and it shall be the operator's responsibility to 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
1694668	EXCEPTION LOC REQUEST
400242479	FORM 2 SUBMITTED
400242492	WELL LOCATION PLAT
400242494	TOPO MAP
400242495	DEVIATED DRILLING PLAN
400242693	SURFACE AGRMT/SURETY
400243621	DIRECTIONAL DATA
400243898	EXCEPTION LOC WAIVERS

Total Attach: 8 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	2/21/2012 10:55:08 AM
Permit	rig height is given as 136'. Road originally noted on location drawing 188' south of pad is private road with gates at each end. See correspondence. distance to road changed back to 600'. OK to pass 2/20/12.	2/10/2012 1:38:48 PM
Permit	ON HOLD: rig height is given as 136'. wellhead 188' from county road. changed distance from road from 600' to 188' per location drawing.	1/27/2012 3:12:30 PM
Permit	Operator requests approval of a Rule 318Aa exception location: Wellhead is to be located outside of a GWA drilling window. Request and Waiver attached.	1/27/2012 3:11:49 PM
Permit	Operator input casing information. This form has passed completeness.	1/23/2012 7:15:44 AM
Permit	Returned to draft. Missing casing information.	1/20/2012 1:31:08 PM

Total: 6 comment(s)

BMP

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

Total: 0 comment(s)