

FORM  
2

Rev  
12/05

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400274483

Date Received:

05/02/2012

PluggingBond SuretyID

20100117

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: SUNDANCE ENERGY INC

4. COGCC Operator Number: 10340

5. Address: 633 17TH STREET #1950

City: DENVER State: CO Zip: 80202

6. Contact Name: Kallasandra Moran Phone: (303)928-7128 Fax: (303)962-6237

Email: kmoran@petro-fs.com

7. Well Name: HFE Well Number: 14-22

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

9. Proposed Total Measured Depth: 7200

WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 22 Twp: 4N Rng: 68W Meridian: 6

Latitude: 40.294692 Longitude: -104.995892

Footage at Surface: 1120 feet FSL 800 feet FWL

11. Field Name: Wattenberg Field Number: 90750

12. Ground Elevation: 4920 13. County: WELD

14. GPS Data:

Date of Measurement: 03/28/2012 PDOP Reading: 1.3 Instrument Operator's Name: Brian Ritz/PFS

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  
661 FSL 657 FWL 660 FSL 660 FWL  
Sec: 22 Twp: 4N Rng: 68W Sec: 22 Twp: 4N 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: 768 ft

18. Distance to nearest property line: 189 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 930 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	407-87	80	S/2SW/4
J Sand	JSND	232-23	320	S/2
Niobrara	NBRR	407-87	80	S/2SW/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):

S/2 S/2 Section 22 Township 4 North Range 68 West

25. Distance to Nearest Mineral Lease Line: 660 ft

26. Total Acres in Lease: 160

### 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	550	450	550	0
1ST	7+7/8	4+1/2	11.6	0	7,200	200	7,200	6,360

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

33. Comments The closest well completed in the same formation is an abandoned location at 1403' with a API 05-123-28041. The closest well completed in the same formation after that one is an plugged and abandoned well at 2531' with a API 05-123-13232.No conductor casing will be set.

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: Kallasnadra M Moran

Title: Regulatory Manager

Date: 5/2/2012

Email: kmoran@petro-fs.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:  Director of COGCC Date: 6/1/2012

#### API NUMBER

05 123 35711 00

Permit Number: \_\_\_\_\_ Expiration Date: 5/31/2014

#### 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.

- 1) Note surface casing setting depth change from 500' to 550'. Increase cement coverage accordingly and cement to surface.
- 2) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.
- 3) If completed, provide cement coverage from TD to a minimum of 200' above Niobrara. Verify coverage with cement bond log.
- 4) 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.

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

### **Attachment Check List**

Att Doc Num	Name
1695008	EXCEPTION LOC REQUEST
1695009	EXCEPTION LOC WAIVERS
1695034	OIL & GAS LEASE
400274483	FORM 2 SUBMITTED
400274518	PLAT
400274519	TOPO MAP
400274992	DEVIATED DRILLING PLAN
400280192	30 DAY NOTICE LETTER
400280361	DIRECTIONAL DATA

Total Attach: 9 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
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.	3/1/2012 9:43:36 AM
Permit	Final Review Completed. No LGD or public comment received.	5/31/2012 4:05:19 PM
Permit	Received and attached Oil and Gas Lease. Abandon Location Sundry from Barrett for the 123-33876 VDR 14-22H was approved 5/23/12. ok to pass.	5/24/2012 10:42:31 AM
Permit	ON HOLD: received and attached Exception Loc Request letter and waivers. Corrected spacing config. to Codell – 80 – S/2SW/4, J Sand – 320 – S/2, Niobrara – 80 – S/2SW/4. Distance to nearest well permitted/completed in same formation changed from 1403 feet to 930' per operator. w/o Abandon Location Sundry from Barrett for 123-33876 VDR 14-22H.	5/21/2012 1:47:35 PM
Permit	ON HOLD: requesting Exception Loc Request letter and waivers. requesting correction to spacing config. Distance to nearest well permitted/completed in same formation 4 feet. Bottom holing in path of Barrett's HZ well 123-33876 VDR 14-22H. Request addition of Anti-collision & During/Post Stimulation HZ BMP's.	5/11/2012 12:43:47 PM
Permit	Operator attached directional template. This form has passed completeness.	5/3/2012 12:01:02 PM
Permit	Returned to draft. Missing directional template.	5/3/2012 8:51:53 AM

Total: 7 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Site Specific	Fence the well site after drilling to restrict public and wildlife access. Keep well site location, the road, and the pipeline easement free of noxious weeds, litter and debris. Spray for noxious weeds, and implement dust control, as needed. Sundance Energy, Inc will not permit the release or discharge of any toxic or hazardous chemicals or wastes on Owner's Land. Construct and maintain gates where any roads used by Sundance Energy, Inc, its employees, or contractors cross through fences on the leased premises.
Storm Water/Erosion Control	Use water bars, and other measures to prevent erosion and non-source pollution. Implement and maintain BMPs to control stormwater runoff in a manner that minimizes erosion, transport of sediment offsite, and site degradation. Co-locate gas and water gathering lines whenever feasible, and mitigate any erosion problems that arise due to the construction of any pipeline(s).
Planning	When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.
Interim Reclamation	Utilize only such area around each producing well as is reasonably necessary. Restore the remainder of the well site location to its original condition within a reasonable time after the completion of operations. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner.
Final Reclamation	All surface restoration shall be accomplished to the satisfaction of Owner. All reseeding shall be done with grasses consistent with the Rocky Mountain native mix or other grasses reasonably requested by surface owner and during planting period suggested by Owner. Final reclamation shall be completed to the reasonable satisfaction of the Owner as soon as practical after installation (weather permitting) and in accordance with regulatory agency standards (BLM/COGCC).
Drilling/Completion Operations	When available and reasonable use a closed-loop drilling mud system to preclude the use of an earthen reserve pits when available.
Construction	Remove only the minimum amount of vegetation necessary for the construction of roads and facilities. Conserve topsoil during excavation and reuse as cover on disturbed areas to facilitate regrowth of vegetation. No construction or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment.

Total: 7 comment(s)