

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE	ET	OE	ES
Document Number: 400194688 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: 380 INTERLOCKEN CRESCENT - STE #601
- City: BROOMFIELD State: CO Zip: 80021
6. Contact Name: Kallasandra Moran Phone: (303)928-7128 Fax: (303)962-6237
- Email: kmoran@petro-fs.com
7. Well Name: May Jon Well Number: 5N 6
8. Unit Name (if appl): _____ Unit Number: _____
9. Proposed Total Measured Depth: 8200

WELL LOCATION INFORMATION

10. QtrQtr: SWSW Sec: 5 Twp: 2N Rng: 68W Meridian: 6
Latitude: 40.162130 Longitude: -105.034380

			FNL/FSL		FEL/FWL
Footage at Surface:	535	feet	FSL	634	feet
					FWL

11. Field Name: Wattenberg Field Number: 90750
12. Ground Elevation: 4931 13. County: WELD

14. GPS Data:
- Date of Measurement: 05/25/2011 PDOP Reading: 1.9 Instrument Operator's Name: Owen McKee/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				
<u>1930</u>		<u>FSL</u>		<u>1123</u>		<u>FWL</u>		<u>2630</u>		<u>FSL</u>		<u>1333</u>		<u>FWL</u>	
Sec:	5	Twp:	2N	Rng:	68W			Sec:	5	Twp:	2N	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: 511 ft
18. Distance to nearest property line: 535 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 880 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.)
Codell	CODL	407-87	160	GWA
J Sand	JSND	232-23	160	GWA
Niobrara	NBRR	407-87	160	GWA
Sussex	SUSX	0	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#: _____

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):
SW/4, Section 5, T2N-R68W

25. Distance to Nearest Mineral Lease Line: 459 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	770	500	770	0
1ST	7+7/8	4+1/2	11.6	0	8,200	600	8,200	0

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

33. Comments The location does NOT require a variance from any of the rules listed in Rule 306.d. (1). (A). (ii). The location is NOT in a restricted surface occupancy area. The location is NOT a sensitive wildlife habitat area. No conductor casing will be set. Closest property line is 55' west to same land owner. Next closest property line is 535' to different land owner. An E&P Waste Management Plan is in process and will be submitted under separate cover. Proposed Spacing Unit S/2NW/4 & N/2SW/4.

34. Location ID: 336191

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: Kallasandra M. Moran

Title: Regulatory Analyst Date: 8/21/2011 Email: kmoran@petro-fs.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. Nash Director of COGCC Date: 9/25/2011

API NUMBER

05 123 34416 00

Permit Number: _____ Expiration Date: 9/24/2013

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 Sussex 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
1694425	PROPOSED SPACING UNIT
400194688	FORM 2 SUBMITTED
400198294	30 DAY NOTICE LETTER
400198295	DEVIATED DRILLING PLAN
400198296	PLAT
400198297	TOPO MAP

Total Attach: 6 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Received and attached Proposed Spacing Unit and 20 day cert letter.	9/21/2011 9:39:49 AM
Permit	Requesting Proposed Spacing Unit and corrected unit config.	8/29/2011 11:01:53 AM
Permit	Returned to draft. Missing location ID number.	8/22/2011 1:09:55 PM

Total: 3 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. 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).
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).
Planning	When feasible develop multiple well sites by using directional drilling to reduce cumulative impacts and adverse impacts on wildlife resources.
Drilling/Completion Operations	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)