

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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Document Number:

1635547

Plugging Bond Surety

20030028

APPLICATION FOR PERMIT TO:

1. ☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

2. TYPE OF WELL

OIL ☒ GAS ☐ COALBED ☐ OTHER Lateral  
SINGLE ZONE ☒ MULTIPLE ☐ COMMINGLE ☐

Refiling ☐

Sidetrack ☒

3. Name of Operator: SWEPI LP

4. COGCC Operator Number: 78110

5. Address: 4582 S ULSTER ST PKWY #1400

City: DENVER State: CO Zip: 80237

6. Contact Name: MICHAEL L. BERGSTROM Phone: (303)222-6347 Fax: (303)222-6258

Email: MICHAEL.BERGSTROM@SHELL.COM

7. Well Name: HARPER HILL Well Number: 2-29

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

9. Proposed Total Measured Depth: 7180

WELL LOCATION INFORMATION

10. QtrQtr: SENW Sec: 29 Twp: 5N Rng: 90W Meridian: 6

Latitude: 40.359478 Longitude: -107.523747

Footage at Surface: 1543 feet FNL 1347 feet FWL

11. Field Name: Waddle Creek Field Number: 90450

12. Ground Elevation: 6581 13. County: MOFFAT

14. GPS Data:

Date of Measurement: 03/01/2011 PDOP Reading: 2.2 Instrument Operator's Name: A. FLOYD

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  
1683 FNL 1285 FWL 796 FSL 541 FEL  
Sec: 29 Twp: 5N Rng: 90W Sec: 30 Twp: 5N Rng: 90W

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: 1242 ft

18. Distance to nearest property line: 1414 ft 19. Distance to nearest well permitted/completed in the same formation: 1352 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.)
NIOBRARA SHALE	NBRR		125	See Map

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#: 20030020

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):

PLEASE SEE ATTACHED Mineral Lease Map

25. Distance to Nearest Mineral Lease Line: 0

26. Total Acres in Lease: 1800

### 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	13+1/2	10+3/4	40.5	0	850	233	850	0
1ST	9+7/8	7+5/8	29.7	0	3,427	59	3,427	2,800
2ND	6+3/4	5+1/2	17	0	7,180	0		

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

33. Comments TWO APDS ARE BEING SUBMITTED FOR HARPER HILL 2-29; ONE FOR THE PILOT HOLE AND ONE FOR THE HORIZONTAL HOLE. THIS APD IS FOR THE HORIZONTAL HOLE. THERE ARE TWO DRILL HOLES AT THIS LOCATION: HARPER HILL 1-29 AND HARPER HILL 2-29. ATTACHMENTS INCLUDE A DRILLING AND COMPLETION PLAN. SWEPI owns an interest in leases colored in pink

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: MICHAEL L. BERGSTROM

Title: SR REGULATORY ADVISOR

Date: 4/15/2011

Email: MICHAEL.

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 G. Nesline

Director of COGCC

Date: 6/30/2011

#### API NUMBER

05 081 07659 01

Permit Number: \_\_\_\_\_ Expiration Date: 6/29/2013

#### 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.

Before placing oil/salt based muds in the pit, operator must file and receive prior approval of a Pit Permit, Form 15. COGCC regulations regarding pit permits can be found in Rule 903.a.(3). PIT PERMITTING/REPORTING REQUIREMENTS.

(1) COMPLIANCE WITH THE MOST CURRENT REVISION OF THE NORTHWEST COLORADO NOTIFICATION POLICY IS REQUIRED.

(2) THE MOISTURE CONTENT OF ANY DRILL CUTTINGS IN A CUTTINGS PIT, TRENCH, OR PILE SHALL BE AS LOW AS PRACTICABLE TO PREVENT ACCUMULATION OF LIQUIDS GREATER THAN DE-MINIMIS AMOUNTS. AT THE TIME OF CLOSURE, THE DRILL CUTTINGS MUST ALSO MEET THE APPLICABLE STANDARDS OF TABLE 910-1.

(3) THE SURFACE CASING IS MORE THAN 50' BELOW THE DEPTH OF THE DEEPEST WATER WELL WITHIN 1 -MILE OF THE SURFACE LOCATION WHEN CORRECTED FOR ELEVATION DIFFERENCES. THE DEEPEST WATER WELL WITHIN 1-MILE IS 450 FEET DEEP.

### **Attachment Check List**

Att Doc Num	Name
1635547	APD APPROVED
1635548	WELL LOCATION PLAT
1635549	TOPO MAP
1635550	MINERAL LEASE MAP
1635551	DEVIATED DRILLING PLAN
1635552	LEGAL/LEASE DESCRIPTION
1635553	DRILLING PLAN
2089448	MINERAL LEASE MAP
2089453	MINERAL LEASE MAP
400181229	APD ORIGINAL

Total Attach: 10 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Attached revised mineral lease map and received confirmation that SWEPI does own a mineral lease position along the wellbore Added information to the Objective Formation tab to reflect the 600 foot offset drilling unit that was established	6/21/2011 2:57:42 PM
Permit	Changed top of production values per Aleta Brown	6/13/2011 9:22:25 AM
Permit	Added field as Waddle Creek and changed distance to nearest surface feature to 1,242'	5/11/2011 4:21:43 PM
Permit	bonding corrected as directed by opr-Michael. sf	5/6/2011 2:10:51 PM
Data Entry	OPERATOR CHECKED SIDETRACK WHICH WAS REMOVED FOR SUBMISSION - IF HAVE SIDETRACK NEED API.	5/5/2011 2:50:23 PM

Total: 5 comment(s)

### **BMP**

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

Total: 0 comment(s)