

**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

Document Number:  
1635547

Plugging Bond Surety  
20030028

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: \_\_\_\_\_ feet      FNL/FSL \_\_\_\_\_ feet      FEL/FWL \_\_\_\_\_ feet  
1543      FNL      1347      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

**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 S. Nesline Director of COGCC Date: 6/30/2011

<b>API NUMBER</b>
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

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
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

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

Total: 0 comment(s)