

FORM  
2

Rev  
12/05

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

400328884

Date Received:

10/02/2012

## 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

PluggingBond SuretyID

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: Nancy Feck Phone: (307)367-7934 Fax: (307)367-4285

Email: N.Feck@shell.com

7. Well Name: Herring Draw Well Number: 4-33

8. Unit Name (if appl): Williams Fork Unit Number: COC74956X

9. Proposed Total Measured Depth: 7219

## WELL LOCATION INFORMATION

10. QtrQtr: NWNW Sec: 33 Twp: 5N Rng: 90W Meridian: 6

Latitude: 40.345719 Longitude: -107.505622

Footage at Surface: 1223 feet FNL 1007 feet FWL

11. Field Name: Waddle Creek Field Number: 90450

12. Ground Elevation: 6804 13. County: MOFFAT

### 14. GPS Data:

Date of Measurement: 08/17/2012 PDOP Reading: 2.1 Instrument Operator's Name: Dallas Nelson

15. If well is  Directional  Horizontal (highly deviated) **submit deviated drilling plan.**

Footage at Top of Prod Zone: 1274 FNL 977 FWL Bottom Hole: 785 FSL 1629 FEL  
Sec: 33 Twp: 5N Rng: 90W Sec: 32 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: 1389 ft

18. Distance to nearest property line: 321 ft 19. Distance to nearest well permitted/completed in the same formation(BHL): 702 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			

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):

Please see attached Mineral Lease map and legal lease description sheet. Distance to nearest Unit boundary is 10,494'.

25. Distance to Nearest Mineral Lease Line: 0 26. Total Acres in Lease: 1163

### 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
CONDUCTOR	30+1/2			0	90		90	0
SURF	13+1/2	10+3/4	40.5lbs	0	1,000	540	1,000	0
1ST LINER	7+7/8	5+1/2	17lbs	0	7,219	78	2,690	1,890

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

33. Comments Depending on subsurface conditions, intermediate casing may be used. If intermediate casing is used, the hole will be 9 7/8". Intermediate casing of 7 5/8" will run from the surface to 2690' with cement from 2690' to 1890'. The production hole will be drilled at 6 3/4". A 5 1/2" production liner will be installed from 2490' to 7219', uncemented. A 9pt. drilling plan outlining this procedure is attached. Item #25. Distance to nearest Unit boundary is 10,494'.

34. Location ID: 427213

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: Nancy Feck

Title: Regulatory Technician Date: 10/2/2012 Email: N.Feck@shell.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: \_\_\_\_\_ Director of COGCC Date: \_\_\_\_\_

API NUMBER

05

Permit Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

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.

\_\_\_\_\_

### Attachment Check List

Att Doc Num	Name
400328884	FORM 2 SUBMITTED
400330608	WELL LOCATION PLAT
400330609	TOPO MAP
400330610	DEVIATED DRILLING PLAN
400330614	WELLBORE DIAGRAM
400330615	WELLBORE DIAGRAM
400330653	SURFACE AGRMT/SURETY
400330763	MINERAL LEASE MAP
400330764	LEGAL/LEASE DESCRIPTION
400330816	DRILLING PLAN
400331157	DIRECTIONAL DATA

Total Attach: 11 Files

### General Comments

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

Total: 0 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	<p>Stormwater Management Plans(SWMP) are in place to comply with both Colorado Department of Public Health and Environment (CDPHE) and Colorado Oil and Gas Conservation Commission (COGCC) stormwater discharge permits. The construction layout for the Herring Draw 1-33 location details Best Management Practices(BMP) to be installed during initial construction. Note that BMP's may be removed, altered, or replace with changing conditions in the field and the stormwater management plan will be updated accordingly. The BMP's prescribed for the initial construction phase include, but are not limited to:</p> <ul style="list-style-type: none"><li>-Construct diversion ditch</li><li>-Sediment reservoirs</li><li>-Check dams</li><li>-Level spreaders</li><li>-Stabilized construction entrance</li><li>-Slash</li><li>-Sediment trap</li><li>-Wattle</li><li>-Terrace</li><li>-Secondary containment berms</li><li>-Detention ponds</li></ul>
Wildlife	<ol style="list-style-type: none"><li>1) Shell will make a good faith effort to finish drilling at this location outside of the period between December 1 and April 15.</li><li>2) Shell agrees that for future reentry to this well site, if applicable, will occur outside of the period between December 1 and April 15.</li><li>3) Interim and final reclamation will match existing vegetation.</li><li>4) Avoid aggressive non-native grasses and shrubs in mule deer and elk habitat restoration.</li><li>5) Shell will include a weed management plan and implement the plan as part of reclamation.</li><li>6) Conduct post-development well site visitations between December 1 and April 15 in mule deer and elk winter range.</li><li>7) Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife - consistent with the surface owner's goals.</li></ol> <p>If possible will use existing 2 track or other existing road or semi road to minimize vegetation disturbance, soil disturbance and potential access to the property.</p>
Material Handling and Spill Prevention	<p>Spill Prevention Plans (SPCC) are in place to address material releases and to prescribe materials handling BMP's from the facility. "Good house-keeping" measures will be taken to ensure proper waste disposal.</p>

Total: 3 comment(s)