

FORM  
2A

Rev  
04/01

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:  
400333650

Date Received:  
10/25/2012

Oil and Gas Location Assessment

New Location  Amend Existing Location Location#: 428535

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this Assessment will allow for the construction of the below specified location; however, it does not supersede any land use rules applied by the local land use authority. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:  
**428535**  
Expiration Date:

This location assessment is included as part of a permit application.

1. CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP # \_\_\_\_\_
- This location is in a sensitive wildlife habitat area.
- This location is in a wildlife restricted surface occupancy area.
- This location includes a Rule 306.d.(1)A.ii. variance request.

2. Operator

Operator Number: 78110  
 Name: SWEPI LP  
 Address: 4582 S ULSTER ST PKWY #1400  
 City: DENVER State: CO Zip: 80237

3. Contact Information

Name: Nancy Feck  
 Phone: (307) 367-7934  
 Fax: (307) 367-4285  
 email: N.Feck@shell.com

4. Location Identification:

Name: Deal Gulch Number: 1-16  
 County: MOFFAT  
 Quarter: SWNE Section: 16 Township: 5N Range: 90W Meridian: 6 Ground Elevation: 7210

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 2157 feet FNL, from North or South section line, and 2465 feet FEL, from East or West section line.  
 Latitude: 40.387986 Longitude: -107.498303 PDOP Reading: 1.6 Date of Measurement: 10/10/2011  
 Instrument Operator's Name: B.Hunting

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/>	Wells: <input type="text" value="8"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="2"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="text" value="1"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="text" value="8"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="text" value="2"/>	Oil Tanks: <input type="text" value="10"/>	Fuel Tanks: <input type="text" value="2"/>	

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 06/15/2012 Size of disturbed area during construction in acres: 3.30  
Estimated date that interim reclamation will begin: 10/01/2013 Size of location after interim reclamation in acres: 2.04  
Estimated post-construction ground elevation: 7207 Will a closed loop system be used for drilling fluids: Yes   
Will salt sections be encountered during drilling: Yes  No  Is H2S anticipated? Yes  No   
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes  No   
Mud disposal: Offsite  Onsite  Method: Land Farming  Land Spreading  Disposal Facility   
Other: \_\_\_\_\_

### 7. Surface Owner:

Name: Lane Osborn Phone: 970-824-2850  
Address: 555 Breeze Street Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: lane.osborn@state.co.us  
City: Denver State: CO Zip: 81626 Date of Rule 306 surface owner consultation: 09/28/2011  
Surface Owner:  Fee  State  Federal  Indian  
Mineral Owner:  Fee  State  Federal  Indian  
The surface owner is:  the mineral owner  committed to an oil and gas lease  
 is the executer of the oil and gas lease  the applicant  
The right to construct the location is granted by:  oil and gas lease  Surface Use Agreement  Right of Way  
 applicant is owner  
Surface damage assurance if no agreement is in place:  \$2000  \$5000  Blanket Surety ID \_\_\_\_\_

### 8. Reclamation Financial Assurance:

Well Surety ID: 20030028  Gas Facility Surety ID: \_\_\_\_\_  Waste Mgnt. Surety ID: \_\_\_\_\_

### 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes  No   
Distance, in feet, to nearest building: 4582, public road: 2270, above ground utilit: 2568  
, railroad: 34372, property line: 2770

### 10. Current Land Use (Check all that apply):

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP  
Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_  
Subdivided:  Industrial  Commercial  Residential

### 11. Future Land Use (Check all that apply):

Crop Land:  Irrigated  Dry land  Improved Pasture  Hay Meadow  CRP  
Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_  
Subdivided:  Industrial  Commercial  Residential

### 12. Soils:

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 22. Bulkeley Silty Clay, 3 to 12 percent slopes

NRCS Map Unit Name: 73. Folded loam, 25 to 65 percent slopes

NRCS Map Unit Name: 166. Routt loam, 3 to 25 percent slopes

### 13. Plant Community:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes  No

Plant species from:  NRCS or,  field observation Date of observation: \_\_\_\_\_

List individual species: Please see previously submitted Rangeland Productivity and Plant Composition Report submitted with the original Form 2A for the Deal Gulch 1-16 locaton.

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)  
 Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)  
 Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)  
 Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)  
 Mountain Riparian (Cottonwood, Willow, Blue Spruce)  
 Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)  
 Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)  
 Alpine (above timberline)  
 Other (describe): \_\_\_\_\_

### 14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area:  No  Yes Was a Rule 901.e. Sensitive Areas Determination performed:  No  Yes

Distance (in feet) to nearest surface water: 1049, water well: 5480, depth to ground water: 80

Is the location in a riparian area:  No  Yes Was an Army Corps of Engineers Section 404 permit filed  No  Yes

Is the location within a Rule 317B Surface Water Suppl Area buffer zone:

No  0-300 ft. zone  301-500 ft. zone  501-2640 ft. zone

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified:  No  Yes

### 15. Comments:

This will be a mult-well pad. Interim reclamation will commence once all wells have been completed. Additional NRCS Map Unit name: 206. Ustorthents, firgid-Borolls complex, 25 to 75 percent slopes.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 10/25/2012 Email: N.Feck@shell.com

Print Name: Nancy Feck Title: Regulatory Technician

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: \_\_\_\_\_

**CONDITIONS OF  
APPROVAL, IF ANY:**

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

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**Attachment Check List**

Att Doc Num	Name
400333650	FORM 2A SUBMITTED
400333678	PROPOSED BMPs
400333682	WELL LOCATION PLAT
400334906	MULTI-WELL PLAN

Total Attach: 4 Files

**General Comments**

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

Total: 0 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Storm Water/Erosion Control	<p>Storm Water management plans(SWMP) are in place to comply with both Colorado Depaartment of Public Health and Environment(CDPHE) and Colorado Oil and Gas Conservation Commission(COGCC) storm water discharge permits. The construction layout submitted with the original Form 2A for this location details Best Management Practices that were implemented during the initial construction. Note that BMP's may be removed, altered, or replaced with the changing conditions in the field and the SWMP 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 Traps</li><li>-Wattles</li><li>-Terrace</li><li>-Secondary containment berms</li><li>-Detention pond</li></ul>
Material Handling and Spill Prevention	<p>Spill Prevention Control and Countermeasure Plans(SPCC) are in place to address material releases and to prescribe materials handling BMP's for the facility. "Good housekeeping" measures will be taken to ensure proper waste disposal.</p>
Wildlife	<ol style="list-style-type: none"><li>1. Drill the well outside of the period between December 1 and April 15 for elk.</li><li>2. Drill subsequent wells outside the period between Decemeber 1 and April 15 for elk.</li><li>3. Conduct post-development well site visitations between the hours of 10am and 3pm and reduce well site visitations between the period of December 1 and April 15; emergencies exempted.</li><li>4. Shell agrees to be in noise abatement compliance with COGCC rule 802.c for the "Industrial" zone during construction, drilling , and completion operations, and in compliance with the "Residential/Agricultural/Rural" zone during production.</li><li>5. Interim and Final reclamation will match existing communities.</li><li>6. This will be a multi-well pad. Interim reclamation will commence once all proposed wells have been drilled and completed from this location.</li><li>7. A weed managment plan will be implemented as part of reclamation.</li><li>8. Bear-proof dumpsters and trash receptacles will be utilized for all food-related trash on location, following COGCC rule 1204 a-1.</li><li>9. Access road was built to the minimum width and improvment standards as much as practicable.</li></ol>

Total: 3 comment(s)