

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:

400313505

Date Received:

08/07/2012

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:

**09/20/2015**

☒ 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: Anne Baldrige

Phone: (303) 305-7555

Fax: (303) 305-7554

email: a.baldrige@shell.com

4. Location Identification:

Name: Deal Gulch

Number: 1-16

County: MOFFAT

QuarterQuarter: 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="2"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="text" value="3"/>	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="text" value="2"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="text" value="2"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="text" value="3"/>	Gas Pipeline: <input type="checkbox"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text" value="2"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="text" value="2"/>	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: 10/05/2012 Size of location after interim reclamation in acres: 1.00  
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: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ 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 be 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. Bulkley 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 Form 2A for the Deal Gulch 1-16.

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 Supply 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:

Proposed BMP's shown on Construction and layout drawings. Adding one new well, Deal Gulch 2-16, pad name remains the same: Deal Gulch 1-16.

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

Signed: \_\_\_\_\_ Date: 08/07/2012 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: 9/21/2012

**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.**

If the well is to be hydraulically stimulated/treated, then flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or pit located on the well pad or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

### **Attachment Check List**

Att Doc Num	Name
1533661	MULTI-WELL PLAN
1533701	PROPOSED BMPs
2034504	CONST. LAYOUT DRAWINGS
400313505	FORM 2A SUBMITTED
400313531	CONST. LAYOUT DRAWINGS

Total Attach: 5 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	No LGD or public comments. Final Review--passed.	9/18/2012 3:01:35 PM
DOW	Wildlife concerns: The proposed pad location is within Elk Winter Concentration Area. Based on the above wildlife concerns, CPW recommends the following BMPs:  1. Construct the pad and drill the well outside of the period between December 1 and April 15 for elk.  2. Construct and or drill any subsequent wells outside the period between December 1 and April 15 for elk.  3. Conduct post-development well site visitations between the hours of 10:00am and 3:00pm and reduce well site visitations between December 1 and April 15; emergencies exempted.  4. Shell agrees to be in noise abatement compliance with COGCC Rule 802.c for the "Industrial" zone during construction, drilling, and completion of the well, and in compliance with the "Residential/Agricultural/Rural" zone during production operations.  5. Interim and final reclamation will match existing communities.  6. Include a weed management plan and implement the plan as part of reclamation.  7. As much as is practicable, build access road to the minimal width and improvement standards.  8. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location, following COGCC Rule 1204 a-1.  Jacob Davidson, 16:07, 9-17-2012	9/17/2012 4:07:15 PM
Permit	Attached multi-well plan.	9/11/2012 7:58:59 AM
Permit	Req'd multi-well plan.	8/31/2012 7:30:13 AM
OGLA	Initiated/Completed OGLA Form 2A review on 08-29-12 by Dave Kubeczko, previously submitted Form 2A#400254109, approved on 04-13-2012, OGCC ID#428535; same COAs apply, flowback to tanks only; passed by CPW on 09-17-12 with operator agreed to BMPs acceptable; passed OGLA Form 2A review on 09-18-12 by Dave Kubeczko; flowback to tanks only COA.	8/29/2012 5:07:21 PM
Permit	Check dist. to prop. line (APD says 2166). Corrected location name to agree w/ previously submitted 2A.	8/14/2012 3:03:07 PM

Total: 6 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Wildlife	<ol style="list-style-type: none"><li>1. Construct the pad and drill the well outside of the period between December 1 and April 15 for elk.</li><li>2. Construct and or drill any subsequent wells outside the period between December 1 and April 15 for elk.</li><li>3. Conduct post-development well site visitations between the hours of 10:00am and 3:00pm and reduce well site visitations between 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 of the well, and in compliance with the "Residential/Agricultural/Rural" zone during production operations.</li><li>5. Interim and final reclamation will match existing communities.</li><li>6. Include a weed management plan and implement the plan as part of reclamation.</li><li>7. As much as is practicable, build access road to the minimal width and improvement standards.</li><li>8. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location, following COGCC Rule 1204 a-1.</li></ol>
Wildlife	<p>Previous Form 2A BMPs:</p> <ol style="list-style-type: none"><li>1) Construct the pad and drill the well outside of the period between December 1 and April 15 for elk.</li><li>2) Construct and or drill any subsequent wells outside the period between December 1 and April 15 for elk.</li><li>3) Conduct post-development well site visitations between the hours of 10:00am and 3:00pm and reduce well site visitations between December 1 and April 15; emergencies exempted.</li><li>4) Use hospital grade mufflers for compressors, pump jacks, or other motors necessary to run operations at the site.</li><li>5) Interim and final reclamation will match existing communities.</li><li>6) Include a weed management plan and implement the plan as part of reclamation.</li><li>7) As much as is practicable, build access road to the minimal width and improvement standards.</li></ol>

Total: 2 comment(s)