

FORM  
2A

Rev  
04/01

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

400170973

Oil and Gas Location Assessment

New Location  Amend Existing Location Location#: \_\_\_\_\_

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:

**424711**

Expiration Date:

**08/14/2014**

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: Michael L. Bergstrom

Phone: (303) 222-6347

Fax: (303) 222-6258

email: Michael.Bergstrom@shell.com

4. Location Identification:

Name: Dawson Creek Number: 1-25

County: ROUTT

Quarter: SE Section: 25 Township: 6N Range: 88W Meridian: 6 Ground Elevation: 6660

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: 2032 feet FNL, from North or South section line, and 1639 feet FWL, from East or West section line.

Latitude: 40.450486 Longitude: -107.213367 PDOP Reading: 2.9 Date of Measurement: 05/10/2011

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="text"/>	Drilling Pits: <input type="text" value="1"/>	Wells: <input type="text" value="1"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="1"/>	Water Tanks: <input type="text" value="3"/>	Separators: <input type="text" value="2"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text" value="1"/>	Cavity Pumps: <input type="text" value="2"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text" value="1"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text" value="3"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text" value="2"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="2"/>	Fuel Tanks: <input type="text" value="2"/>	

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

6. Construction:

Date planned to commence construction: 08/15/2011 Size of disturbed area during construction in acres: 3.85  
Estimated date that interim reclamation will begin: 10/01/2011 Size of location after interim reclamation in acres: 1.39  
Estimated post-construction ground elevation: 6658 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: 05/13/2011  
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: 20030020  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: 3400, public road: 1295, above ground utilit: 1345  
, railroad: 8976, property line: 919

### 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: 10C—Bulkley silty clay, 3 to 12 percent slopes

NRCS Map Unit Name: 4E—Yampatika silty clay, 12 to 25 percent slopes

NRCS Map Unit Name: \_\_\_\_\_

### 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 attached Rangeland Productivity and Plant Composition Report "NRCS Map Unit Desc Dawson Ck 1-25.pdf"

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: 652, water well: 4330, depth to ground water: 7

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:

Please see CO Division of Water Resources attachment for closest water well details "CDWR Water Well Info Dawson Ck 2-25.pdf" A Form 15 pit permit is being submitted concurrently with the Form 2 & 2A for Dawson Creek 1-25.

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

Signed: \_\_\_\_\_ Date: 06/18/2011 Email: Michael.Bergstrom@shell.com

Print Name: Michael L. Bergstrom Title: Senior Regulatory Advisor

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. Nashin Director of COGCC Date: 8/15/2011

**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.**

The drilling pit must be lined, or a closed loop system must be implemented during drilling. All cuttings generated during drilling with OBM must be kept in the lined drilling pit, or placed either in containers or on a lined/bermed portion of the well pad; prior to offsite disposal.

### Attachment Check List

Att Doc Num	Name
2033934	CORRESPONDENCE
400170973	FORM 2A SUBMITTED
400173819	LOCATION PICTURES
400173820	LOCATION DRAWING
400173823	HYDROLOGY MAP
400173826	ACCESS ROAD MAP
400173827	REFERENCE AREA MAP
400173828	REFERENCE AREA PICTURES
400173830	OTHER
400173831	CONST. LAYOUT DRAWINGS
400173832	OTHER
400173833	PROPOSED BMPs

Total Attach: 12 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Agency	Confirmed with the LGD the wildlife BMPs supplied by CPAW were agreed to by the operator and were the requirements of the permit, there were no timing limitations applied as a condition of approval. The LGD also informed COGCC that SWEPI had contacted the FAA and a permit had been approved.	8/15/2011 4:27:51 PM
DOW	The BMPs and COAs as submitted by the operator are appropriate for the site and species affected. The BMPs were agreed upon in pre consultation discussions.  by Michael Warren on Wednesday, July 27, 2011 at 10:00 A.M.	7/27/2011 9:57:44 AM
OGLA	Initiated/Completed OGLA Form 2A review on 07-07-11 by Dave Kubeczko; lined pit/closed loop COA from operator on 07-07-11; received acknowledgement of COAs from operator on 07-7-11; passed by CDOW on 07-27-11 with operator agreed to/submitted BMPs acceptable; passed OGLA Form 2A review on 07-27-11 by Dave Kubeczko; lined pit/closed loop COA.	7/7/2011 12:55:27 PM
LGD	Please see LGD comments from Doc Form 2#400170937 below:  Routt County has a permitting process for all oil/gas operaiotns. Shell Oil is aware of this and has been workiing with the County.  This site is located approximatley 2 miles south of the Yampa Valley Regional Airport. The operator is required to file with the FAA for an evaluation and approval of drilling operations.  Safety requirements may be required during drill operations for traffic on the county road. Visibility by taffic travelling from the south is limited and signate or flaggers used to warn of truck traffic may be required.  The well pad location is within mapped areas for Sharpe-tailed Grouse leks and production areas. It is also located approx 1 mile from mapped areas for Greater Sage Grouse Production areas and approx 1.8 mile from Greater Sage Grouse lek and brood areas. Operation from this well site should be prohibited for drilling operations March through July and maintenance and access to the site during these months after drilling operations are complete should be limitedand access to the site limited to the hours of 9 a.m. to 4 p.m. Reserve pits should be reclaimed immediatley after drilling operations or closed loop system used. If pits are used they should be fenced, flagged and netted. Any equipment, lines or fencing on-site should have raptor perch deterrrents. The operator should also implement measures to minimize noise and vibrations from any equipment left on site. After drilling operations the well pad and access road should be closely monitored and maintained for weed control and if possible reduction of the sides/shoulder of the access road and reseeded along shoulders to help mitigate fragmentation of the environment.	6/29/2011 10:07:14 AM
Permit	Added surface owner is committed to and executer of the oil and gas lease  Waiting on bond clearance from SLB	6/27/2011 8:57:25 AM

Total: 5 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Wildlife	<p>See Wildlife BMPs CDOW attachment for complete email from CDOW.</p> <ul style="list-style-type: none"><li>• Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads.</li><li>• Prior to development, establish baseline vegetation condition and inventory and to provide a basis for post-development habitat restoration.</li><li>• Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife.</li><li>• Close and immediately reclaim all roads that are redundant, not used regularly, or have been abandoned to the maximum extent possible to minimize disturbance and habitat fragmentation.</li><li>• Avoid aggressive non-native grasses and shrubs in mule deer and elk habitat restoration.</li><li>• Reclaim mule deer and elk habitats with native shrubs, grasses, and forbs appropriate to the ecological site disturbed.</li><li>• Restore appropriate sagebrush species or subspecies on disturbed sagebrush sites. Use locally collected seed for reseeded where possible.</li></ul>
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 Control Commission (COGCC) stormwater discharge permits. The construction layout for Dawson Creek 1-25 details Best Management Practices (BMP) to be installed during initial construction. Note that BMPs may be removed, altered, or replaced with changing conditions in the field and the SWMP will be updated accordingly.</p> <p>The BMPs prescribed for the initial construction phase include, but are not limited to</p> <ul style="list-style-type: none"><li>• Construction 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>
Material Handling and Spill Prevention	<p>Spill Prevention Plans (SPCC) are in place to address material releases and to prescribe materials handling BMPs for the facility. "Good house-keeping" measures will be taken to ensure proper waste disposal.</p>

Total: 3 comment(s)