

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



Document Number:

400254450

Date Received:

03/02/2012

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:

428533

Expiration Date:

04/12/2015

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: Michael Bergstrom

Phone: (303) 222-6347

Fax: (303) 222-6358

email: michael.bergstrom@shell.com

4. Location Identification:

Name: North Castor Gulch Number: 1-16

County: MOFFAT

Quarter: TR 66 Section: 16 Township: 5N Range: 91W Meridian: 6 Ground Elevation: 6992

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: 1294 feet FNL, from North or South section line, and 925 feet FEL, from East or West section line.

Latitude: 40.392189 Longitude: -107.605392 PDOP Reading: 1.5 Date of Measurement: 10/05/2011

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"/>	Wells: <input type="text" value="1"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	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: 07/01/2012 Size of disturbed area during construction in acres: 8.46
 Estimated date that interim reclamation will begin: 10/15/2012 Size of location after interim reclamation in acres: 0.84
 Estimated post-construction ground elevation: 6985 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: _____
 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: 7550, public road: 3702, above ground utilit: 3700
 , railroad: 16737, property line: 925

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: 33-Clayburn loam, warm, 3 to 25 percent slopes

NRCS Map Unit Name: _____
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

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: 943, water well: 5690, depth to ground water: 25
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

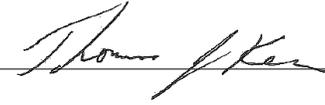
15. Comments:

Proposed BMPs are shown on the construction and layout drawings.

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

Signed: _____ Date: 03/02/2012 Email: Michael.bergstrom@shell.com
Print Name: Michael 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:  Director of COGCC Date: 4/13/2012

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.

SITE SPECIFIC COA:

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
2034291	CORRESPONDENCE
400254462	ACCESS ROAD MAP
400254463	CONST. LAYOUT DRAWINGS
400254464	HYDROLOGY MAP
400254465	LOCATION DRAWING
400254466	LOCATION PICTURES
400254467	NRCS MAP UNIT DESC
400254468	REFERENCE AREA MAP
400254470	REFERENCE AREA PICTURES
400254889	OTHER

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	T. Kelly, State Land Board, confirmed oper. has satisfied lease stips and has surface bond in order. CPW passed. LGD/pub. comments waived. Final Comprehensive Review Status--passed.	4/13/2012 10:11:13 AM
Permit	State Land Board advised that surface restoration bond in place but needs to confirm lease stips with operator regarding wildlife.	4/6/2012 2:38:34 PM
OGLA	Initiated/Completed OGLA Form 2A review on 04-05-12 by Dave Kubeczko; requested acknowledgement of flowback to tanks COA and wildlife BMPs listed in CPW's comment dated 03-07-12 on 04-05-12; received acknowledgement of COGCC COA and CPW BMPs on 04-05-12; passed by CPW on 03-07-12 with recommended BMPs; passed OGLA Form 2A review on 04-05-12 by Dave Kubeczko; flowback to tanks COA.	4/3/2012 11:29:15 AM
Permit	notified Tim Kelly with State Land Board	3/23/2012 11:23:02 AM
DOW	CPW recommends: 1) Construct the pad and drill the well outside of the period between December 1 and April 15 for elk and mule deer. 2) Construct and or drill any subsequent wells outside the period between December 1 and April 15 for elk and mule deer. 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) Use hospital grade mufflers for compressors, pump jacks, or other motors necessary to run operations at the site. 5) Interim and final reclamation will match existing vegetation. 6) Include a weed management plan and implement the plan as part of reclamation. Jacob Davidson 03-07-2012 15:54	3/7/2012 4:27:18 PM

Total: 5 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 North Castor Gulch 1-16 details Best Management Practices (BMPs) 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. The BMPs prescribed for the initial construction phase include, but are not limited to:</p> <ul style="list-style-type: none">• Construction diversion ditch• Sediment reservoirs• Check dams• Level spreaders• Stabilized construction entrance• Slash• Sediment trap• Wattle• Terrace• Secondary containment berms• Detention ponds
General Housekeeping	<p>Shell will follow the guidelines of the Moffat County Weed and Pest Management Department.</p>
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 BMPs for the facility. "Good housekeeping" measures will be taken to ensure proper waste disposal.</p>
Wildlife	<ol style="list-style-type: none">1) Construct the pad and drill the well outside of the period between December 1 and April 15 for elk and mule deer.2) Construct and or drill any subsequent wells outside the period between December 1 and April 15 for elk and mule deer.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) Use hospital grade mufflers for compressors, pump jacks, or other motors necessary to run operations at the site.5) Interim and final reclamation will match existing vegetation.6) Include a weed management plan and implement the plan as part of reclamation.

Total: 4 comment(s)