

FORM  
2A

Rev  
08/13

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:

400500285

Date Received:

11/04/2013

Oil and Gas Location Assessment

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

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location 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. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**436822**

Expiration Date:

**04/17/2017**

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

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.

Operator

Operator Number: 78110

Name: SWEPI LP

Address: 4582 S ULSTER ST PKWY #1400

City: DENVER    State: CO    Zip: 80237

Contact Information

Name: Steve Compton

Phone: (303) 305-4017

Fax: ( )

email: C-Steven.Compton@shell.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: 20030028     Gas Facility Surety ID: \_\_\_\_\_

Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: State \_\_\_\_\_ Number: 4-36

County: HUERFANO

Quarter: NWNW Section: 36 Township: 26S Range: 70W Meridian: 6 Ground Elevation: 7162

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1034 feet FNL from North or South section line

368 feet FWL from East or West section line

Latitude: 37.750053    Longitude: -105.177494

PDOP Reading: 1.1    Date of Measurement: 01/13/2012

Instrument Operator's Name: J.H. (Uintah Surveying)

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

This proposed Oil and Gas Location is:

LOCATION ID # FORM 2A DOC #



## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	<u>1</u>	Oil Tanks	<u>2</u>	Condensate Tanks	<u>    </u>	Water Tanks	<u>2</u>	Buried Produced Water Vaults	<u>    </u>
Drilling Pits	<u>    </u>	Production Pits	<u>    </u>	Special Purpose Pits	<u>    </u>	Multi-Well Pits	<u>    </u>	Temporary Large Volume Above Ground Tanks	<u>    </u>
Pump Jacks	<u>1</u>	Separators	<u>1</u>	Injection Pumps	<u>    </u>	Cavity Pumps	<u>    </u>		
Gas or Diesel Motors	<u>    </u>	Electric Motors	<u>    </u>	Electric Generators	<u>2</u>	Fuel Tanks	<u>1</u>	Gas Compressors	<u>    </u>
Dehydrator Units	<u>    </u>	Vapor Recovery Unit	<u>    </u>	VOC Combustor	<u>1</u>	Flare	<u>    </u>	LACT Unit	<u>    </u>
								Pigging Station	<u>    </u>

## OTHER FACILITIES

Other Facility Type

Number

<input type="text"/>	<input type="text"/>
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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

## CONSTRUCTION

Date planned to commence construction: 02/01/2014 Size of disturbed area during construction in acres: 6.15  
Estimated date that interim reclamation will begin: 08/01/2014 Size of location after interim reclamation in acres: 0.99  
Estimated post-construction ground elevation: 7162

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

Is H<sub>2</sub>S anticipated? No

Will salt sections be encountered during drilling: No

Will salt based mud (>15,000 ppm Cl) be used? No

Will oil based drilling fluids be used? Yes

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID:      or Document Number:     

Centralized E&P Waste Management Facility ID, if applicable:     

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: State of Colorado

Phone:

Address: 1127 Sherman St. #300

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: Denver State: CO Zip: 80203

Surface Owner:  Fee  State  Federal  Indian

Check all that apply. The Surface Owner:  is the mineral owner  
 is committed to an oil and Gas Lease  
 has signed the Oil and Gas Lease  
 is the applicant

The Mineral Owner beneath this Oil and Gas Location is:  Fee  State  Federal  Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

The right to construct this Oil and Gas Location is granted by: oil and gas lease

Surface damage assurance if no agreement is in place: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

Date of Rule 306 surface owner consultation 10/29/2013

### CURRENT AND FUTURE LAND USE

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

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

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 5280 Feet  
Building Unit: 5280 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 748 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 1034 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.  
- Enter 5280 for distance greater than 1 mile.  
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.  
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a:  Buffer Zone  
 Exception Zone  
 Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.  
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.  
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_  
Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

## SOIL

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.org/> 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: \_\_\_\_\_  
NRCS Map Unit Name: 61 Olney-Progresso Sandy Loams 3 to 15 percent slopes  
NRCS Map Unit Name: 50 Neville Fine Sandy Loam 1 to 3 percent slopes

## 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): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area:  No  Yes

Distance to nearest

downgradient surface water feature: 1400 Feet

water well: 6300 Feet

Estimated depth to ground water at Oil and Gas Location 80 Feet

Basis for depth to groundwater and sensitive area determination:

Water well Receipt #0466927 Permit #229158 Cozine, Mark R.

Is the location in a riparian area:  No  Yes

Was an Army Corps of Engineers Section 404 permit filed  No  Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No 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

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)
- Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)
- Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)
- Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)
- Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## RULE 502.b VARIANCE REQUEST

- Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## OPERATOR COMMENTS AND SUBMITTAL

Comments

This well was originally permitted as the State 2-36 well (API 05-055-06310). At the request of COGCC, due to significant changes in the SHL and BHL, SWEPI renamed the well the State 4-36, and as a result, a new APD package has been submitted.

Proposed BMPs are shown on attached Construction & Layout Drawings. Closest water well details are included on Colorado Division of Water Resources well info attachment.

Colorado Parks and Wildlife was consulted on 9/17/13. CPW responded on 9/19/13 stating they had no concerns with the location of the well. Their response is attached.

A site visit was scheduled for 10/29/13. COGCC, CPW, and the land owner, Colorado State Land Board were all invited. CPW declined (see above). COGCC declined on 10/24/13 via a phone call from Mr. John Noto stating that Greg Deranleau had visited the site the previous week and had no major concerns, thus there was no need to revisit the site on 10/29/13.

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

Signed: \_\_\_\_\_ Date: 11/04/2013 Email: trent.miller@shell.com

Print Name: Trent Miller Title: Env & Reg Consultant

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: 4/18/2014

### **Conditions Of Approval**

**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.**

<b><u>COA Type</u></b>	<b><u>Description</u></b>
	Operator shall document Reference Area in accordance with COGCC Rule 303.b.(3)G with map and photos submitted via Form 4 Sundry Notice within 1 year of approval. Vegetation type and density at the reference area shall be comparable to that found at the proposed location.
	Only enclosed flares shall be utilized at the location. A Form 4 Sundry Notice is required to be filed with the COGCC stating that flaring will be taking place on the location. The Sundry is required to be submitted and approved prior to initiating flaring. The Sundry shall also include a line drawing of the flare.
	Except in emergency circumstances when venting may be performed as needed to mitigate health, safety or environmental impacts, uncontrolled venting shall not be permitted on this Oil and Gas Location.
	Provide notice to COGCC 48-hours prior to commencement of construction activities via form 42.
	Flowback and stimulation fluids must be sent to tanks. The flowback and stimulation fluid tanks must be placed on the well pad in an area with additional down gradient perimeter berming sufficiently impervious to contain any spilled or released material (per Rule 604.a.(4)). Tanks used for flowback must be equipped with emission reducing devices during flowback.

### **Best Management Practices**

<b><u>No</u></b>	<b><u>BMP/COA Type</u></b>	<b><u>Description</u></b>
1	Storm Water/Erosion Control	Stormwater BMPs are detailed on the Construction Layout Drawings.

Total: 1 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1642168	CORRESPONDENCE
400500285	FORM 2A SUBMITTED
400500326	ACCESS ROAD MAP
400500330	CONST. LAYOUT DRAWINGS
400500332	HYDROLOGY MAP
400500333	LOCATION DRAWING
400500335	LOCATION PICTURES
400500341	OTHER
400500342	REFERENCE AREA MAP
400500343	REFERENCE AREA PICTURES
400501140	NRCS MAP UNIT DESC
400501142	OTHER
400503333	CORRESPONDENCE

Total Attach: 13 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Review completed. Ready for final approval.	4/15/2014 1:49:08 PM
OGLA	Between 12/20/13 and 1/22/14 COGCC exchanged numerous e-mails addressing this location, access, and conditions of approval. The correspondence is attached as doc #1642168.	2/12/2014 8:34:03 AM
OGLA	Access route discussed with operator, see Correspondence #1642168.	2/12/2014 8:29:16 AM
OGLA	Per operator, access to the pad will be the shorter of the 2 alternatives shown on the Access Road Map.	2/12/2014 8:27:33 AM
Permit	State Land Board has been notified. Bond and surface location are in good order. per SLB 1/28/2014	1/27/2014 12:26:48 PM
Permit	Reviewed of possible deep water zone. Changed contact information.	1/23/2014 5:03:58 AM
OGLA	Correspondence sent to operator requesting additional information on access road and access route and proposed COAs.	12/20/2013 10:28:43 AM
OGLA	Operator proposed stormwater BMPs on Construction Layout Drawings.	12/10/2013 12:17:36 PM
OGLA	cursory review - need access road information (explanaiton of alternative). COGCC visited site on 10/29/13 - need to discuss access route and bridges (primarily local concern), protection of drainage to north and northwest, location not considerably different from previously approved location from a cultural and environmental perspective.	11/18/2013 11:47:39 AM
Permit	This well falls within the Farisita Federal Unit.	11/14/2013 2:30:05 PM
Permit	The well and location for the State 2-36 should be abandoned since it is not related to the 4-36 in any way.	11/14/2013 2:27:21 PM
Permit	Surface and Minerals don't match 2. Form 2 says, This well was originally permitted by SWEPI as the State 2-36 well (API 05-055-06310). It is unclear what plans are in play for that well. Form back in draft.	11/5/2013 3:50:54 PM

Total: 12 comment(s)