

**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:

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Date Received:

02/07/2012

**Oil and Gas Location Assessment**☐ New Location☒ Amend Existing Location Location#: 311343

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:

**311343**

Expiration Date:

**07/12/2015**☐ 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: 10373Name: HIGH SIERRA WATER SERVICES LLCAddress: 3773 CHERRY CREEK NORTH DRCity: DENVER State: CO Zip: 80209**3. Contact Information**Name: CLAYTON DOKEPhone: (970) 669-7411Fax: (970) 669-4077email: cdoke@petersonenergy.com**4. Location Identification:**Name: SWD C4 FACILITY

Number: \_\_\_\_\_

County: WELDQuarterQuarter: SWSE Section: 26 Township: 6N Range: 65W Meridian: 6 Ground Elevation: 4682

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: 1040 feet FSL, from North or South section line, and 1924 feet FEL, from East or West section line.Latitude: 40.452530 Longitude: -104.627660 PDOP Reading: 2.1 Date of Measurement: 12/13/2011Instrument Operator's Name: RON EDWARDS**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="text" value="2"/>	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="20"/>	Separators: <input type="checkbox"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="checkbox"/>	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="checkbox"/>	Oil Tanks: <input type="text" value="6"/>	Fuel Tanks: <input type="checkbox"/>	

Other: 2- Injection Pump; One drilling pit was previously closed in 1986.**6. Construction:**

Date planned to commence construction: 03/15/2012 Size of disturbed area during construction in acres: 4.50  
Estimated date that interim reclamation will begin: 08/15/2012 Size of location after interim reclamation in acres: 2.75  
Estimated post-construction ground elevation: 4682 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: 05/31/2011  
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: 20110128 ☐ Gas Facility Surety ID: \_\_\_\_\_ ☐ Waste Mgmt. Surety ID: \_\_\_\_\_

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 260, public road: 1023, above ground utilit: 467  
, railroad: 5280, property line: 422

## 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: OLNEY FINE SANDY LOAM, 1 TO 3 PERCENT SLOPES

NRCS Map Unit Name: OTERO SANDY LOAM, 1 TO 3 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: \_\_\_\_\_

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: 475, water well: 856, depth to ground water: 15

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:

Location is in a CDPHE REG 42 area, however, the underlying waters (pertaining to the Parkman) are classified as "limited use and quantity", thus this has not been used as a parameter for the "sensitive area" determination. Distance to nearest surface water is to concrete ditch. Static water level determined from water well permit #: 251143- -A located SWSE Sec. 26 T6N R65W, approximately 795' southeast of location. This well pumped at 15 gpm with a static water level of 15'. There is no substantial difference in elevation between the water well and location, thus sensitive area has been marked "YES" due to proximity to groundwater. Operator requests a rule 318A(I).a and & 318A(I).c exception location; well is outside of the GWA windows and greater than 50' from an existing well. Request and waivers are attached.

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

Signed: \_\_\_\_\_ Date: 02/07/2012 Email: cdoke@petersonenergy.com

Print Name: CLAYTON DOKE Title: PETROLEUM ENGINEER

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: 7/13/2012

**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.**

Location is in a sensitive area because of shallow groundwater; therefore, either a lined drilling pit or closed loop system is required.

If drill cuttings will be land applied, then a Waste Management Plan meeting the general requirements of Rule 907.a. must be submitted for the land application of drill cuttings. Submit the Waste Management Plan on a Form 4 Sundry Notice via email to ogccenvirosundry@state.co.us prior to drilling.

### **Attachment Check List**

Att Doc Num	Name
2113778	OTHER
2613940	SURFACE AGRMT/SURETY
2613941	CORRESPONDENCE
2614024	LOCATION DRAWING
400242784	FORM 2A SUBMITTED
400247960	NRCS MAP UNIT DESC
400249130	ACCESS ROAD MAP
400249131	TOPO MAP
400249132	LOCATION DRAWING
400249133	HYDROLOGY MAP
400249134	LOCATION PICTURES
400249135	LOCATION PICTURES
400249380	EXCEPTION LOC REQUEST
400249381	EXCEPTION LOC WAIVERS
400249448	WASTE MANAGEMENT PLAN
400249452	OTHER

Total Attach: 16 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Final Review	OFF HOLD following resolution of amend vs. new Location.	7/11/2012 2:39:27 PM
OGLA	The operator is expanding the injection facilities to the south and adding one injection well to serve these facilities. The new injection well (SWD-C4B) appears to be approximately 220 feet north of the northern boundary of the existing injection facility, and is located in irrigated cropland with surface owner approval; the operator has a SUA. The injection well is essentially a part of the facility and therefore it is appropriate to amend historic location 311343 and account for the full inventory of equipment including two injection wells. The Lyster #E 26-15 is a producing well on the physical disposal facility location, but is related to historic OGCC location 311408 and not included as part of this Form 2A location assessment.	7/11/2012 8:29:51 AM
OGLA	Phone call with operator regarding disturbance area; High Sierra has plans to expand injection facility making one large location to include the proposed well; operator will submit a revised site diagram	7/3/2012 3:51:14 PM
Final Review	Placed ON HOLD to address amended vs. new location question - OGLA to contact Operator for resolution.	6/29/2012 9:33:39 AM
Permit	Attached and/or replaced the following: Opr acquired SUA and FAA approval. Attached to 2 & 2A. Some of the new attachments have a different well name which will be corrected with a Sundry. All changes doen as per opr.  Final Review Completed. No LGD or public comment received.	6/28/2012 8:59:27 AM
Permit	Opr reports that their lawyers are in the process of getting an updated SUA with a new BHL. New plats and DS are on the way. The site was submitted to FAA's OEAAA on 3/27 (they have 45 days to evlauate).	4/16/2012 11:08:45 AM
Permit	Talked with Clay Doke and will continue on hold for FAA letter, and possible BHL move and SUAs.	3/26/2012 1:38:38 PM
Permit	Form on hold. SUA doesn't extend to this location, there is no SUA for BHL rights, no mention of airport 411' west.	3/1/2012 9:02:48 AM
OGLA	Changed size of location, attached SUA from operator; Ready to Pass 2/29/2012	2/23/2012 7:51:15 AM

Total: 9 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>

Total: 0 comment(s)