

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:

400318401

Date Received:

08/29/2012

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:

430717

Expiration Date:

11/06/2015

☒ 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: 68710

Name: PETERSON ENERGY OPERATING INC

Address: 2154 W EISENHOWER BLVD

City: LOVELAND State: CO Zip: 80537

3. Contact Information

Name: CLAYTON DOKE

Phone: (970) 669-7411

Fax: (970) 669-4077

email: cdoke@petersonenergy.com

4. Location Identification:

Name: HOSHIKO PAD Number: 34-25

County: WELD

QuarterQuarter: SWSE Section: 25 Township: 5N Range: 64W Meridian: 6 Ground Elevation: 4588

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: 871 feet FSL, from North or South section line, and 2322 feet FEL, from East or West section line.

Latitude: 40.365530 Longitude: -104.496830 PDOP Reading: 1.8 Date of Measurement: 07/23/2012

Instrument Operator's Name: Brian T. Brinkman

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="2"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="4"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="2"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text" value="2"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="1"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 10/01/2012 Size of disturbed area during construction in acres: 3.77
Estimated date that interim reclamation will begin: 03/01/2013 Size of location after interim reclamation in acres: 1.00
Estimated post-construction ground elevation: 4588 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: 08/30/2012
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: 20090055 ☐ 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: 721, public road: 296, above ground utilit: 220
, railroad: 4330, property line: 150

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: NUNN CLAY LOAM, 0 TO 1 PERCENT SLOPES, #41

NRCS Map Unit Name: OLNEY FINE SANDY LOAM 0 TO 1 PERCENT SLOPES, #46

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: 142, water well: 400, depth to ground water: 18

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:

The nearest water well (permit # 2007085-AB) 400 ft to the North of the well location was abandoned in 2007. The nearest water well that is currently active (permit # 12744-R-R) approximately 1115' to the North of location and has a static water level of 18'. Which when adjusted for elevation is a relative depth of 16'. Operator respectfully requests a Rule 318A(I).a exception location; this location is outside of a GWA drilling window and is greater than 50' from an existing well. Request is attached. The surface owner has explicitly consented to the location outside of the 318A(I).a windows through the surface use agreement in item 18 ¶ #7, thus no additional waiver has been attached. Wells drilled from this pad will bottom hole on both FEE and STATE minerals.

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

Signed: _____ Date: 08/29/2012 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: Matthew Lee Director of COGCC Date: 11/7/2012

**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.

Attachment Check List

Att Doc Num	Name
2288950	SURFACE AGRMT/SURETY
400318401	FORM 2A SUBMITTED
400318799	HYDROLOGY MAP
400318800	LOCATION DRAWING
400318806	MULTI-WELL PLAN
400318808	LOCATION PICTURES
400321689	SURFACE AGRMT/SURETY
400321690	EXCEPTION LOC REQUEST
400321913	WASTE MANAGEMENT PLAN
400322700	ACCESS ROAD MAP
400322701	NRCS MAP UNIT DESC

Total Attach: 11 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Taken Off Hold - No pits.	11/6/2012 9:48:01 AM
Permit	Per operator removed pits from application.	11/6/2012 6:18:10 AM
Final Review	placed On Hold. 2 drilling pits listed and closed loop. Request clarification from operator on use of pits, and confirm that pits will be lined if used through COA or BMP. Confirm that pits will not need permit.	10/31/2012 8:53:20 AM
Permit	Per operator corrected surface and minerals information. Final Review Completed. No LGD or public comment received.	10/29/2012 12:17:43 PM
Permit	Form 2 and 2A compared. Requested surface and minerals information. 2A ok to pass once minerals cleared up.	9/24/2012 7:31:58 AM
OGLA	Reviewed 9/11/2012.	9/11/2012 1:43:51 PM
Permit	Attached a copy of SUA map per operator.	9/6/2012 6:50:38 AM
Permit	Requested clarification on areas covered by SUA.	9/4/2012 1:46:53 PM
Permit	Operator attached NRCS Map Unit Descriptions Access Road map attachment opens and is viewable	8/30/2012 6:22:52 PM
Permit	Return to Draft: Missing NRCS Map Unit Description attachment Access Road map attachment does not open	8/30/2012 4:03:11 PM

Total: 10 comment(s)

BMP

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

Total: 0 comment(s)