

State of Colorado  
Oil and Gas Conservation Commission

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



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| DE | ET | OE | ES |
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Document Number:

400065243

## 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 stand alone 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:

**418004**

Expiration Date:

**06/26/2013**
☒ 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: 10154

Name: ORR ENERGY LLC

Address: 1813 61ST AVE STE 200

City: GREELEY State: CO Zip: 80634

## 3. Contact Information

Name: Virginia Lopez

Phone: (303) 928-7128

Fax: (303) 423-8765

email: virginia@petro-fs.com

## 4. Location Identification:

Name: AG Number: Facilities

County: WELD

Quarter: NENE Section: 32 Township: 6N Range: 66W Meridian: 6 Ground Elevation: 4712

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: 105 feet, from North or South section line: FNL and 699 feet, from East or West section line: FEL

Latitude: 40.451626 Longitude: -104.794918 PDOP Reading: 6.0 Date of Measurement: 05/26/2010

Instrument Operator's Name: Kristi McRedmond

## 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"/>                | Production Pits: <input type="text"/> | Dehydrator Units: <input type="text"/> |
| Condensate Tanks: <input type="text"/>     | Water Tanks: <input type="text" value="2"/> | Separators: <input type="text" value="5"/> | 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"/>      | 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"/>         | Oil Tanks: <input type="text" value="5"/>  | Fuel Tanks: <input type="text"/>      |  |

Other: 2 ECD's. There will be a 2 inch fusion bond flowline flowing North from wells 380 feet to the tank battery.

## 6. Construction:

Date planned to commence construction: 06/01/2010 Size of disturbed area during construction in acres: 0.21  
Estimated date that interim reclamation will begin: 09/01/2010 Size of location after interim reclamation in acres: 0.20  
Estimated post-construction ground elevation: 4712 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: 01/01/2010  
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: 20070019 ☐ 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: 298, public road: 110, above ground utilit: 80  
, railroad: 1095, property line: 110

## 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): Open Field  
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): Open Field  
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: Ostero Sandy Loam 1 to 3 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: Reedgrass, Western Wheatgrass, Sand Bluestem

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)  
☒ Native Grassland (Bluestern, 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: 82, water well: 258, depth to ground water: 26

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:

The Reference Area is adjacent to the proposed oil and gas location on undisturbed land to the South of the proposed facility as shown on the North facing Location Picture Surface Owner has requested their name and address be withheld from public information. Mineral ownership and drilling information have been omitted because this is a tank battery 2A. The nearest water well, permit # 247210, is 258 feet away and does not list static water level. The nearest water well, permit # 274112--A, is 672 feet away and has a static water level of 26.

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

Signed: \_\_\_\_\_ Date: 05/27/2010 Email: virginia@petro-fs.com

Print Name: Virginia Lopez Title: Regulatory Technician

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: 6/27/2010

**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                 | Doc Description      |
|-------------|----------------------|----------------------|
| 0           | SURFACE AGRMT/SURETY | LF@2488259 0         |
| 2613078     | CORRESPONDENCE       | LF@2485698 2613078   |
| 2613079     | CORRESPONDENCE       | LF@2485699 2613079   |
| 2613085     | SURFACE AGRMT/SURETY | LF@2488259 2613085   |
| 2613086     | SURFACE AGRMT/SURETY | LF@2488260 2613086   |
| 2613087     | CORRESPONDENCE       | LF@2488261 2613087   |
| 2613110     | CORRESPONDENCE       | LF@2493522 2613110   |
| 400065243   | FORM 2A SUBMITTED    | LF@2483750 400065243 |
| 400065327   | PROPOSED BMPs        | LF@2483751 400065327 |
| 400065349   | ACCESS ROAD MAP      | LF@2483752 400065349 |
| 400065352   | HYDROLOGY MAP        | LF@2483753 400065352 |
| 400065353   | LOCATION PICTURES    | LF@2483754 400065353 |
| 400065355   | LOCATION DRAWING     | LF@2483755 400065355 |
| 400065447   | NRCS MAP UNIT DESC   | LF@2483756 400065447 |

Total Attach: 14 Files