

**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



DE ET OE ES

Document Number:

400019318

**Oil and Gas Location Assessment**☐ New Location ☒ Amend Existing Location Location#: 413055

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:

**413055**

Expiration Date:

☒ 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: 10079

Name: ANTERO RESOURCES PICEANCE CORPORATION

Address: 1625 17TH ST STE 300

City: DENVER State: CO Zip: 80202

**3. Contact Information**

Name: Hannah Knopping

Phone: (303) 357-6412

Fax: (303) 357-7315

email: hknopping@anteroresources.com

**4. Location  
Identification:**

Name: WATSON RANCH PAD Number: 24B-17-07-95

County: GARFIELD

QuarterQuarter: SESW Section: 17 Township: 7S Range: 95W Meridian: 6 Ground Elevation: 5563

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: 913 feet, from North or South section line: FSL and 1454 feet, from East or West section line: FWL

Latitude: 39.432958 Longitude: -108.025213 PDOP Reading: 1.8 Date of Measurement: 06/19/2009

**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="18"/> | Production Pits: | <input type="text"/>           | Dehydrator Units: | <input type="text"/> |
| Condensate Tanks:     | <input type="text" value="2"/> | Water Tanks:   | <input type="text" value="4"/> | 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" value="1"/>  | Pump Jacks:      | <input type="text"/>           | Pigging Station:  | <input type="text"/> |
| Electric Generators:  | <input type="text" value="1"/> | Gas Pipeline:  | <input type="text" value="1"/> | Oil Pipeline: | <input type="text" value="1"/>  | Water Pipeline:  | <input type="text" value="2"/> | Flare:            | <input type="text"/> |
| Gas Compressors:      | <input type="text"/>           | VOC Combustor: | <input type="text" value="1"/> | Oil Tanks:    | <input type="text"/>            | Fuel Tanks:      | <input type="text" value="1"/> |                   |                      |

Other: Will only need LACT unit if pipeline condensate out, otherwise will strap tanks and sell via truck loading.

## 6. Construction:

Date planned to commence construction: 08/15/2009 Size of disturbed area during construction in acres: 2.91  
Estimated date that interim reclamation will begin: 04/15/2010 Size of location after interim reclamation in acres: 1.63  
Estimated post-construction ground elevation: 5560 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: Closed loop; GarCty  
Landfill

## 7. Surface Owner:

Name: Watson Ranch, Ltd. Phone: \_\_\_\_\_  
Address: PO Box 586 Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: Meeker State: CO Zip: 81641 Date of Rule 306 surface owner consultation: 06/12/2009  
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 executor 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 20040072

## 8. Reclamation Financial Assurance:

☒ Well Surety ID: 20040071 ☐ 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: 661 , public road: 780 , above ground utilit: 661  
 , railroad: 9820 , property line: 263

## 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: 56: Potts Loam

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: 06/25/2009

List individual species: Sage Brush and grasses. NRCS plant species shown in attached document#1289022.

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: 206, water well: 740, depth to ground water: 120

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:

This amendment makes the following changes: add 2 wells to pad but there will be no additional earth disturbance, update facilities list to accommodate additional wells. Reference Area Photos are attached. #1 Consultation: Since this location is in a "Sensitive Wildlife Habitat Area" Antero contacted CDOW prior to original submittal of APD to consult with them concerning BMP's. We have implemented BMP's that they suggested in our "Proposed BMP's" see attached. #14-Water Resources: We have attached a map that we received from CDOW labeled "CDOW High Value Riparian Habitat", which confirms that our well pad is no located in a riparian area.

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Email: hknopping@anteroresources.com

Print Name: Hannah Knopping Title: Permit Representative

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: \_\_\_\_\_

**Attachment Check List**

| Att Doc Num | Name                    | Doc Description  |
|-------------|-------------------------|--|
| 400019349   | MULTI-WELL PLAN         | Watson Ranch_Amended Multi-Well Plan.pdf                 |
| 400019352   | REFERENCE AREA PICTURES | Watson Ranch pad_Reference Area Photos.pdf               |
| 400019356   | CONST. LAYOUT DRAWINGS  | Watson Ranch Pad_Amended Construction Layout Drawing.pdf |
| 400019410   | EQUIPMENT LIST          | Watson Ranch Pad_Amended List of Facilities.pdf          |

Total Attach: 4 Files