

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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Document Number:

1710879

## 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:

**413198**

Expiration Date:

**09/20/2012**
☒ 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: BMC "G" PAD Number: BAT32C-17-07-95

County: GARFIELD

Quarter: NESE Section: 17 Township: 7S Range: 95W Meridian: 6 Ground Elevation: 5730

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: 2313 feet, from North or South section line: FSL and 922 feet, from East or West section line: FEL

Latitude: 39.436850 Longitude: -108.014930 PDOP Reading: 1.6 Date of Measurement: 05/13/2009

## 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="12"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="2"/>	Water Tanks: <input type="text" value="4"/>	Sparators: <input type="text" value="3"/>	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" value="1"/>
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" value="1"/>
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: GATHERING LINE FROM PAD TO SLAES POINT WILL HAVE A LAUNCHER RECIEVER INSTALLED AT SURFACE FOR PIGGING OPERATIONS. 1 water tank is potable.

## 6. Construction:

Date planned to commence construction: 08/03/2009 Size of disturbed area during construction in acres: 3.58  
Estimated date that interim reclamation will begin: 02/03/2010 Size of location after interim reclamation in acres: 1.81  
Estimated post-construction ground elevation: 5730 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: GARFIELD COUNTY  
LANDFILL

## 7. Surface Owner:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Date of Rule 306 surface owner consultation: 06/02/2009  
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 \_\_\_\_\_

## 8. Reclamation Financial Assurance:

☒ Well Surety ID: 20040072 ☐ Gas Facility Surety ID: 0 ☐ Waste Mgmt. Surety ID: 0

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 1171, public road: 299, above ground utilit: 407  
, railroad: 11193, property line: 299

## 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: MAP UNIT SYMBOL 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: 05/13/2009

List individual species: SAGE BRUSH AND GRASSES. For individual species see NRCS map unit description.

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: 424, water well: 750, 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 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:

REFERENCE AREA PHOTOS: 4 PHOTOS WILL BE TAKEN AND PROVIDED TO THE COGCC DURING SUMMER 2009. #1 CONSULTATION: SINCE THIS LOCATION IS IN A SENSITIVE "WILDLIFE HABITAT AREA" ANTERO CONTACTED CDOW PRIOR TO SUBMITTAL OF THIS APD TO CONSULT WITH THEM CONCERNING BEST MANAGEMENT PRACTICES. WE HAVE IMPLEMENTED THE BMP'S THAT THEY SUGGESTED IN OUR "PROPOSED BMP'S" (SEE ATTACHED). #6-CONSTRUCTION COMMENTS: 3.58 ACRES REFERS TO THE TOTAL DISTURBANCE INCLUDING BOTH THE PAD AND THE ACCESS ROADS. THE PAD DISTURBANCE WILL BE 2.77 ACRES DURING THE DRILLING AND COMPLETION STAGES BUT WILL BE REDUCED DOWN TO 1 ACRE AFTER THE INTERIM RECLEMATION, MAKING THE TOTAL DISTURBANCE OF BOTH THE PAD AND ACCESS ROADS 1.81 ACRES. #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 NOT LOCATED IN A RIPARIAN AREA.

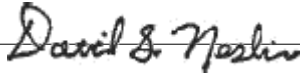
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 06/15/2009 Email: HKNOPPING@ANTERORESOURCES.COM

Print Name: HANNAH KNOPPINGTitle: 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: 9/21/2009**Attachment Check List**

Att Doc Num	Name	Doc Description
1289062	HYDROLOGY MAP	LF @2127777 1289062
1289063	HYDROLOGY MAP	LF @2127779 1289063
1289075	CORRESPONDENCE	LF @2140554 1289075
1289076	LOCATION DRAWING	LF @2140555 1289076
1289077	EQUIPMENT LIST	LF @2140556 1289077
1302529	PROPOSED BMPs	LF @2083232 1302529
1710879	FORM 2A	LF @2064132 1710879
1710880	LOCATION PICTURES	LF @2116816 1710880
1710881	LOCATION DRAWING	LF @2083203 1710881
1710882	HYDROLOGY MAP	LF @2083220 1710882
1710883	TOPO MAP	LF @2083222 1710883
1710884	REFERENCE AREA MAP	LF @2083221 1710884
1710885	REFERENCE AREA MAP	LF @2083224 1710885
1710886	NRCS MAP UNIT DESC	LF @2083204 1710886
1710887	ACCESS ROAD MAP	LF @2083225 1710887
1710888	CONST. LAYOUT DRAWINGS	LF @2083205 1710888
1710889	MULTI-WELL PLAN	LF @2083206 1710889
1710890	PROPOSED BMPs	LF @2083202 1710890
1712611	MULTI-WELL PLAN	LF @2138594 1712611
1712612	SURFACE OWNER CONSENT	LF @2140591 1712612
1940331	NRCS MAP UNIT DESC	LF @2127774 1940331
1940332	CONST. LAYOUT DRAWINGS	LF @2127773 1940332
2063216	CORRESPONDENCE	LF @2116817 2063216

Total Attach: 23 Files