

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



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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="checkbox"/>      | Drilling Pits: <input type="checkbox"/>       | Wells: <input type="text" value="12"/>       | Production Pits: <input type="checkbox"/>      | Dehydrator Units: <input type="checkbox"/>      |
| Condensate Tanks: <input type="text" value="2"/>    | Water Tanks: <input type="text" value="4"/>   | Sparators: <input type="text" value="3"/>    | 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="text" value="1"/>    | Pump Jacks: <input type="checkbox"/>           | 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="checkbox"/>           | VOC Combustor: <input type="text" value="1"/> | Oil Tanks: <input type="checkbox"/>          | 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 X Is H2S anticipated? Yes No X
Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes No X
Mud disposal: Offsite X 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: X Fee State Federal Indian
Mineral Owner: X Fee State Federal Indian
The surface owner is: the mineral owner committed to an oil and gas lease
X is the executor of the oil and gas lease the applicant
The right to construct the location is granted by: oil and gas lease X 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:

X 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 X
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: X 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: X 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 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 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:

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 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:

*David G. Nashin*

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