

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:
400086298

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:
419380
Expiration Date:
09/19/2013

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: 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: Diemoz Number: A Pad
County: GARFIELD
Quarter: NWSW Section: 36 Township: 5S Range: 92W Meridian: 6 Ground Elevation: 5652
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: 2006 feet, from North or South section line: FSL and 1118 feet, from East or West section line: FWL
Latitude: 39.569521 Longitude: -107.671988 PDOP Reading: 2.4 Date of Measurement: 08/11/2010
Instrument Operator's Name: Scott E. Aibner

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="3"/> | Production Pits: <input type="text"/> | Dehydrator Units: <input type="text"/> |
| Condensate Tanks: <input type="text" value="2"/> | Water Tanks: <input type="text" value="2"/> | Separators: <input type="text" value="1"/> | 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" value="1"/> |
| Electric Generators: <input type="text"/> | Gas Pipeline: <input type="text" value="1"/> | Oil Pipeline: <input type="text" value="1"/> | Water Pipeline: <input type="text" value="1"/> | 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"/> | |

Other: See attached List of Facilities for details

6. Construction:

Date planned to commence construction: 10/01/2010 Size of disturbed area during construction in acres: 4.64
Estimated date that interim reclamation will begin: 04/01/2011 Size of location after interim reclamation in acres: 2.00
Estimated post-construction ground elevation: 5650 Will a closed loop system be used for drilling fluids: Yes [X]
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 [X]
Other: Onsite if meet Table 910

7. Surface Owner:

Name: Phone:
Address: Fax:
Address: Email:
City: State: Zip: Date of Rule 306 surface owner consultation: 07/23/2010
Surface Owner: [X] Fee [] State [] Federal [] Indian
Mineral Owner: [X] Fee [] State [] Federal [] Indian
The surface owner is: [X] the mineral owner [X] committed to an oil and gas lease
[X] is the executer of the oil and gas lease [] the applicant
The right to construct the location is granted by: [X] 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:

[X] Well Surety ID: 20040071 [] Gas Facility Surety ID: [] Waste Mgnt. Surety ID:

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes [] No [X]
Distance, in feet, to nearest building: 1130 , public road: 1118 , above ground utilit: 1108
, railroad: 5280 , property line: 1118

10. Current Land Use (Check all that apply):

Crop Land: [X] Irrigated [] Dry land [] Improved Pasture [X] 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: [X] Irrigated [] Dry land [] Improved Pasture [X] 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: 55: Potts loam, 3 to 6 percent slopes

NRCS Map Unit Name: 56: Potts loam, 6 to 12 percent slopes

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: 08/18/2010

List individual species: Sagebrush and Grasses. See attached NRCS Plant Composition Reports.

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: 65, water well: 1300, depth to ground water: 60

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:

#1 Consultation: Since this location is in a "Sensitive Wildlife Habitat Area" Antero contacted CDOW prior to submittal of this APD and discussed best management practices (see attached Proposed BMP List which addresses wildlife issues).

#4- The proposed Diemoz A1 well location was used as the reference point for well distance measurements. #6: The disturbed area acre amounts include the access road.

The depth to ground water was determined by using static water level data of nearest active water well (Permit# 95032/Receipt# 0084581). Most of our disturbed surface will be on irrigated land but a small portion will be on rangeland. Our reference area is undisturbed ground immediately adjacent and to the northeast of the well pad, as shown in the "North" and "East" location photos.

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

Signed: _____ Date: 08/23/2010 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 S. Neslin

Director of COGCC

Date: 9/20/2010

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.

No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

Operator must implement best management practices to contain any unintentional release of fluids.

Location is in a sensitive area because of proximity to surface water; therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures sufficiently protective of nearby surface water. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

Reserve pit must be lined or closed loop system must be implemented during drilling.

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

Attachment Check List

| Att Doc Num | Name | Doc Description |
|-------------|------------------------|----------------------|
| 2033369 | CORRESPONDENCE | LF@2541046 2033369 |
| 2033372 | PROPOSED BMPs | LF@2541133 2033372 |
| 400086298 | FORM 2A SUBMITTED | LF@2528934 400086298 |
| 400086892 | HYDROLOGY MAP | LF@2528935 400086892 |
| 400086893 | LOCATION DRAWING | LF@2528936 400086893 |
| 400086894 | LOCATION PICTURES | LF@2528937 400086894 |
| 400086895 | CONST. LAYOUT DRAWINGS | LF@2528938 400086895 |
| 400086897 | TOPO MAP | LF@2528939 400086897 |
| 400086899 | EQUIPMENT LIST | LF@2528940 400086899 |
| 400086900 | PROPOSED BMPs | LF@2528941 400086900 |
| 400086901 | NRCS MAP UNIT DESC | LF@2528942 400086901 |
| 400086907 | OTHER | LF@2528943 400086907 |
| 400086915 | MULTI-WELL PLAN | LF@2528944 400086915 |
| 400086916 | SURFACE AGRMT/SURETY | LF@2528945 400086916 |

Total Attach: 14 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|--------------------------|---|----------------------------|
| OGLA | Initiated/Completed OGLA Form 2A review on 08-30-10 by Dave Kubeczko; requested clarifications and acknowledgement of close SW fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, no pit in fill COAs from operator on 08-30-10; received clarifications and acknowledgement of COAs from operator on 09-02-10; passed by CDOW on 08-25-10 with operator submitted BMPs (with permit application and WMP) acceptable; passed OGLA Form 2A review on 09-14-10 by Dave Kubeczko; close SW fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, no pit in fill COAs. | 8/30/2010 6:55:41 PM |
| DOW | This well pad is located within the boundary of the approved and signed Antero - CDOW Wildlife Mitigation Plan. The BMPs submitted by the operator are appropriate for the site and species affected. by Michael Warren on Wednesday, August 25, 2010 at 9:15 A.M. | 8/25/2010 9:24:39 AM |
| Permit | changed right to construct after receiving an e-mail from the operator | 8/24/2010 3:20:15 PM |
| Permit | Changed Distance to Public Road: 1118', Distance to Property Line: 1118', Distance to Utility Line: 1108' per HK. | 8/24/2010 11:35:25 AM |

Total: 4 comment(s)

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