

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:
400080934

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:
419140
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: Three Siblings Number: A Pad
County: GARFIELD
Quarter: SE Quarter: NW Section: 2 Township: 6S Range: 92W Meridian: 6 Ground Elevation: 5758
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: 2509 feet, from North or South section line: FNL and 2325 feet, from East or West section line: FWL
Latitude: 39.557214 Longitude: -107.635966 PDOP Reading: 2.4 Date of Measurement: 07/22/2010
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="1"/>	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 facilities list for details

6. Construction:

Date planned to commence construction: 09/01/2010 Size of disturbed area during construction in acres: 5.42
Estimated date that interim reclamation will begin: 03/01/2011 Size of location after interim reclamation in acres: 3.43
Estimated post-construction ground elevation: 5753 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: 07/01/2010
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
[] is the executer 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: 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: 1250 , public road: 1440 , above ground utilit: 1440
, railroad: 4412 , property line: 341

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

Crop Land: [X] Irrigated [] Dry land [] Improved Pasture [X] 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: [X] Irrigated [] Dry land [] Improved Pasture [X] 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 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: 34: Ildefonso stony loam, 25 to 45 percent slopes

NRCS Map Unit Name: 54: Potts loam, 1 to 3 percent slopes

NRCS Map Unit Name: 57: Potts-Ildefonso complex, 3 to 12 percent slopes

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: _____

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: 235, water well: 1760, depth to ground water: 8

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: This location is within the boundary of Antero's Wildlife Mitigation Plan that was negotiated with CDOW (a summary of WMP is included in BMP list). #4: The proposed Three Siblings A1 well location was used as the reference point for well distance measurements. #6: The disturbed area acre amounts include the access road. #14: The depth to ground water was determined by using static water level data of nearest water well (Permit #277628/Receipt #9503024). The nearest surface water is an intermittent stream found on topo map that is currently dry.

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

Signed: _____ Date: 08/03/2010 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.

David S. Neslin

COGCC Approved: _____

Director of COGCC

Date: 8/31/2010

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.

Location is in a sensitive area because of shallow groundwater; therefore either a lined drilling pit or closed loop system (which has been indicated on the Form 2A by Antero) must be implemented.

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.

Operator must implement best management practices to contain any unintentional release of drilling, completion, or produced fluids.

Location is in a sensitive area because of proximity to surface water (intermittent stream to the south); 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.

Attachment Check List

Att Doc Num	Name	Doc Description
2033317	CORRESPONDENCE	LF@2529179 2033317
400080934	FORM 2A SUBMITTED	LF@2517047 400080934
400081391	LOCATION PICTURES	LF@2517048 400081391
400081392	LOCATION DRAWING	LF@2517049 400081392
400081393	CONST. LAYOUT DRAWINGS	LF@2517050 400081393
400081395	HYDROLOGY MAP	LF@2517051 400081395
400081396	ACCESS ROAD MAP	LF@2517052 400081396
400081398	NRCS MAP UNIT DESC	LF@2517053 400081398
400081399	EQUIPMENT LIST	LF@2517054 400081399
400081502	PROPOSED BMPs	LF@2517055 400081502
400081880	SURFACE AGRMT/SURETY	LF@2517056 400081880

Total Attach: 11 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
DOW	<p>This well pad is located within the boundary of the final, signed Antero-CDOW Wildlife Mitigation Plan.</p> <p>The BMPs as submitted by the operator are part of the Wildlife Mitigation Plan and are appropriate to the site.</p> <p>by Michael Warren on Wednesday, August 4, 2010 at 3:50 P.M.</p>	8/12/2010 1:20:29 PM
OGLA	<p>Initiated/Completed OGLA Form 2A review on 08-12-10 by Dave Kubeczko; requested clarifications and acknowledgement of close SW fluid containment, spill/release BMPs, shallow GW lined pits/closed loop, cuttings low moisture COAs from operator on 08-12-10; received clarifications and acknowledgement of COAs from operator on 08-12-10; passed by CDOW on 08-04-10, with operator submitted (with permit application) BMPs acceptable; this location is part of the wildlife mitigation plan between Antero and CDOW; passed OGLA Form 2A review on 08-25-10 by Dave Kubeczko; close SW fluid containment, spill/release BMPs, shallow GW lined pits/closed loop, cuttings low moisture COAs.</p>	8/12/2010 1:16:29 PM

Total: 2 comment(s)

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