

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:
400075954

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:
418828
Expiration Date:
08/18/2013

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: CSF Number: E Pad
County: GARFIELD
Quarter: NESW Section: 9 Township: 7S Range: 91W Meridian: 6 Ground Elevation: 6812
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: 1430 feet, from North or South section line: FSL and 2485 feet, from East or West section line: FWL
Latitude: 39.458485 Longitude: -107.558944 PDOP Reading: 2.5 Date of Measurement: 06/09/2010
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"/>
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: 09/01/2010 Size of disturbed area during construction in acres: 3.50
 Estimated date that interim reclamation will begin: 03/01/2011 Size of location after interim reclamation in acres: 1.70
 Estimated post-construction ground elevation: 6807 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: Onsite if meet Table 910

7. Surface Owner:

Name: _____ Phone: _____
 Address: _____ Fax: _____
 Address: _____ Email: _____
 City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: _____
 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 executer 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: _____ Gas Facility Surety ID: _____ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No
 Distance, in feet, to nearest building: 5280, public road: 5280, above ground utilit: 5280
 , railroad: 5280, property line: 5795

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 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: 12: Bucklon-Inchou loams, 25 to 50 percent slopes

NRCS Map Unit Name: 45: Morval-Tridell Complex, 6 to 25 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: 07/06/2010

List individual species: Sage brush and grasses and other. See attached NRCS Plant Species 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: 550, water well: 8078, depth to ground water: 75

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:

#4- The proposed CSF 23C-09-07-91 well location was used as the reference point for well distance measurements. #9- The distance to nearest building, public road, above ground utility, railroad and water well are all over 1 mile away from proposed location. #14-Water Resources: The depth to ground water determined by using static water level data of nearest active water well located in Section 20-T7S-R91W (Permit#90723/Receipt#9114462). Our reference area is undisturbed ground immediately adjacent and to the south of our proposed well pad, as shown in the "South" location photo.

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

Signed: _____ Date: 07/14/2010 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: 8/19/2010

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.

The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.

Reserve pit (or any pit containing fluids [if constructed]) must be lined or closed loop system must be implemented during drilling.

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.

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 fluids.

The location is in an area of high run off/run-on potential; therefore the pad shall be constructed to prevent any stormwater run-on and /or stormwater runoff.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

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.

Attachment Check List

Att Doc Num	Name	Doc Description
2033277	CORRESPONDENCE	LF@2515913 2033277
400075954	FORM 2A SUBMITTED	LF@2507611 400075954
400075978	LOCATION PICTURES	LF@2507612 400075978
400075980	LOCATION DRAWING	LF@2507613 400075980
400075981	HYDROLOGY MAP	LF@2507614 400075981
400075983	ACCESS ROAD MAP	LF@2507615 400075983
400075986	NRCS MAP UNIT DESC	LF@2507616 400075986
400075987	CONST. LAYOUT DRAWINGS	LF@2507617 400075987
400075988	MULTI-WELL PLAN	LF@2507618 400075988
400075989	PROPOSED BMPs	LF@2507619 400075989
400075990	EQUIPMENT LIST	LF@2507620 400075990
400075991	OTHER	LF@2507621 400075991

Total Attach: 12 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	removed plugging bond. Emailed ms. knopping requesting approval to remove plugging bond. deleted bond. 7/15/kk.	8/12/2010 1:03:38 PM
OGLA	Initiated/Completed OGLA Form 2A review on 07-26-10 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, no pit in fill, sediment control access road, stormwater BMP COAs from operator on 07-26-10; received clarifications and acknowledgement of COAs from operator on 07-26-10; no CDOW; passed OGLA Form 2A review on 08-05-10 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, no pit in fill, sediment control access road, stormwater BMP COAs.	8/4/2010 12:07:07 PM

Total: 2 comment(s)

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