

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:  
1813687

**Oil and Gas Location Assessment**

New Location       Amend Existing Location      Location#: 382959

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:  
**382959**  
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: ELK CAMP Number: 12-22-05-91  
County: GARFIELD  
Quarter: SWNW Section: 22 Township: 5S Range: 91W Meridian: 6 Ground Elevation: 6291  
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: 2196 feet, from North or South section line: FNL and 254 feet, from East or West section line: FWL  
Latitude: 39.601070 Longitude: -107.599257 PDOP Reading: 1.7 Date of Measurement: 04/30/2009

**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="checkbox"/> <u>1</u>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox"/> <u>11</u>	Sparators: <input type="checkbox"/>	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="checkbox"/>	Pump Jacks: <input type="checkbox"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	

Other: WORKOVER RIG, WIRELINE UNIT, INJECTION PUMP, IRON PIPING COIL TUBING, FRAC VAN

6. Construction:

Date planned to commence construction: 07/15/2009 Size of disturbed area during construction in acres: 2.00
Estimated date that interim reclamation will begin: 01/01/2010 Size of location after interim reclamation in acres: 1.80
Estimated post-construction ground elevation: 6291 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: GARFIELD COUNTY LANDFILL

7. Surface Owner:

Name: Phone:
Address: Fax:
Address: Email:
City: State: Zip: Date of Rule 306 surface owner consultation: 05/05/2009
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
[ ] 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: 20040071 [X] Gas Facility Surety ID: 20070006 [X] Waste Mgnt. Surety ID: 20070005

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes [ ] No [X]
Distance, in feet, to nearest building: 1327 , public road: 2258 , above ground utilit: 1327
, railroad: 17530 , property line: 254

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 [X] Other (describe): RECLAIMED DRILLING PAD
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 24: DOLLARD-ROCK OUTCROP

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: 05/05/2009

List individual species: SAGE BRUSH AND GRASSES (see attached correspondence for complete species list Doc # 1940299)

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: 800, water well: 3385, depth to ground water: 150

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:

#7 \*N/A; THERE IS CURRENTLY NO ACTIVE LEASE. SINCE WE ARE PERMITTING AS POTENTIAL WATER DISPOSAL WELL ONLY, NO OIL AND GAS LEASE REQUIRED. #14 \*THE LOCATION IS CURRENTLY WITHIN A RULE 317B AREA, HOWEVER IT IS A PORTION THAT THE COGCC MAP INDICATES AS PROPOSED TO BE REMOVED AT THE 4/29/09 HEARING. ANTERO IS REQUESTING A VARIANCE TO RULE 317B UNTIL THE NEW MAPS ARE ADOPTED BY THE COGCC (DIRECTOR LETTER ATTACHED). WE CONTACTED KENT KUSTER, CDPHE OIL & GAS CONSULTATION COORDINATOR, AND HE CONFIRMED THAT IT WOULD NOT BE NECESSARY TO SEND OUT NOTIFICATIONS TO PUBLIC WATER SYSTEMS WITHIN 15 MILES SINCE IT WAS DECIDED AT HEARING THAT A PORTION OF THE RULE 317B BUFFER THAT OUR WELL IS LOCATED WILL BE REMOVED. REFERENCE AREA PHOTOS: 4 PHOTOS WILL BE TAKEN AND PROVIDED TO THE COGCC DURING SUMMER 2009. OLD WELL NAME: ELK CAMMP FEDERAL UNIT F12X-22P

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

Signed: \_\_\_\_\_ Date: 06/08/2009 Email: HKNOPPING@ANTERORESOURCES.COM

Print Name: HANNAH KNOPPING Title: PERMIT REP.

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. Noshin*

Director of COGCC

Date: 9/21/2009

### Condition of Approval

Comment

Agency

7/31/09 - Additional information requested from the Operator.

### Attachment Check List

Att Doc Num	Name	Doc Description
1289071	HYDROLOGY MAP	LF@2140564 1289071
1289072	HYDROLOGY MAP	LF@2140566 1289072
1289073	EQUIPMENT LIST	LF@2140558 1289073
1289074	LOCATION DRAWING	LF@2140557 1289074
1710699	LOCATION PICTURES	LF@2062281 1710699
1710700	LOCATION PICTURES	LF@2062277 1710700
1710701	LOCATION PICTURES	LF@2062279 1710701
1710702	LOCATION PICTURES	LF@2062275 1710702
1710703	LOCATION PICTURES	LF@2062273 1710703
1710704	LOCATION DRAWING	LF@2062005 1710704
1710705	ACCESS ROAD MAP	LF@2062271 1710705
1710706	HYDROLOGY MAP	LF@2062272 1710706
1710707	REFERENCE AREA MAP	LF@2062270 1710707
1710708	NRCS MAP UNIT DESC	LF@2062004 1710708
1710709	CONST. LAYOUT DRAWINGS	LF@2062003 1710709
1710711	CORRESPONDENCE	LF@2062001 1710711
1813687	FORM 2A	LF@2062000 1813687
1813692	PROPOSED BMPs	LF@2062713 1813692
1940299	CORRESPONDENCE	LF@2122640 1940299
2097256	CORRESPONDENCE	LF@2115156 2097256

Total Attach: 20 Files