

**FORM  
INSP**Rev  
05/11**State of Colorado****Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Inspection Date:

06/29/2012

Document Number:

663800405

Overall Inspection:

Satisfactory**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Tracking Type	Inspector Name:
	<u>291070</u>	<u>335538</u>		<u>LONGWORTH, MIKE</u>

**Operator Information:**OGCC Operator Number: 10079 Name of Operator: ANTERO RESOURCES PICEANCE CORPORATIONAddress: 1625 17TH ST STE 300City: DENVERState: COZip: 80202**Contact Information:**

Contact Name	Phone	Email	Comment
Black, Jon	970 625 9922	jblack@anteroresources.com	Operations Manager: Piceance Basin

**Compliance Summary:**QtrQtr: NWSW Sec: 14 Twp: 6S Range: 92W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Unsatisfactory	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
07/29/2011	200318767	RT	AC	S			Y
12/22/2010	200291017	RT	AC	S			N
08/18/2010	200267235	RT	WO	S			N
07/03/2007	200114185	CO	ND	S		P	N

**Inspector Comment:****Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
291065	WELL	PR	03/25/2010	GW	045-14284	VALLEY FARMS F2	
291066	WELL	PR	11/25/2009	GW	045-14285	VALLEY FARMS F3	
291067	WELL	PR	05/28/2008	LO	045-14286	VALLEY FARMS F5	
291070	WELL	IJ	04/04/2012	DSPW	045-14287	VALLEY FARMS F4	X
291071	WELL	XX	05/28/2008	LO	045-14288	Valley Farms F6	
291072	WELL	PR	12/07/2009	OW	045-14289	VALLEY FARMS F7	
291073	WELL	PR	04/19/2010	GW	045-14290	VALLEY FARMS F1	
296414	WELL	PR	12/06/2009	GW	045-16011	VALLEY FARMS F8	
296415	WELL	PR	10/02/2008	OW	045-16012	VALLEY FARMS FEDERAL F14	
297266	WELL	XX	07/18/2008	LO	045-16368	Valley Farms F22	
297267	WELL	XX	07/18/2008	LO	045-16369	Valley Farms Federal F12	
301813	WELL	XX	02/26/2009	LO	045-18281	VALLEY FARMS F17	
301814	WELL	XX	02/26/2009	LO	045-18282	VALLEY FARMS F16	
301815	WELL	XX	02/26/2009	LO	045-18283	VALLEY FARMS F15	
301816	WELL	XX	02/26/2009	LO	045-18284	VALLEY FARMS F18	

Inspector Name: LONGWORTH, MIKE

301817	WELL	XX	02/26/2009	LO	045-18285	VALLEY FARMS F13	
301818	WELL	XX	05/07/2012	LO	045-18286	Valley Farms F-1H	
301819	WELL	XX	02/26/2009	LO	045-18287	VALLEY FARMS F21	
301820	WELL	XX	02/26/2009	LO	045-18288	VALLEY FARMS F20	
301821	WELL	XX	02/26/2009	LO	045-18289	VALLEY FARMS F19	
301822	WELL	XX	02/26/2009	LO	045-18290	VALLEY FARMS F9	
301823	WELL	XX	02/26/2009	LO	045-18291	VALLEY FARMS F10	
301824	WELL	XX	02/26/2009	LO	045-18292	VALLEY FARMS F11	

**Equipment:**Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: 23	Production Pits: _____
Condensate Tanks: 4	Water Tanks: 6	Separators: 6	Electric Motors: _____
Gas or Diesel Mortors: _____	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: 1	Oil Pipeline: 1	Water Pipeline: 1
Gas Compressors: _____	VOC Combustor: 1	Oil Tanks: _____	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: 1	Flare: _____	Fuel Tanks: _____

**Location**Lease Road:

Type	Satisfactory/Unsatisfactory	comment	Corrective Action	Date
Access	Satisfactory			

Signs/Marker:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
BATTERY	Satisfactory			
TANK LABELS/PLACARDS	Satisfactory			
WELLHEAD	Satisfactory			

Emergency Contact Number: (S/U/V) Satisfactory

Corrective Date: \_\_\_\_\_

Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

Good Housekeeping:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
OTHER	Unsatisfactory	Tank berm are stained with hydracarons	Clean berms	07/21/2012

Spills:

Type	Area	Volume	Corrective action	CA Date
Condensate	Tank	<= 5 bbls	Clean stains out of berms	07/21/2012
Lube Oil	WELLHEAD	<= 5 bbls	Clean and remidate stains around and wells in cellars	06/21/2012

☐ Multiple Spills and Releases?Fencing/:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WELLHEAD	Satisfactory			

<b>Equipment:</b>					
Type	#	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
Bird Protectors	4	Satisfactory			

<b>Facilities:</b>		<input type="checkbox"/> New Tank	Tank ID: _____		
Contents	#	Capacity	Type	SE GPS	
CONDENSATE	6	300 BBLS	STEEL AST	,	
S/U/V:	Satisfactory		Comment:		
Corrective Action:					Corrective Date:

Paint

Condition	Adequate
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Other (Content) \_\_\_\_\_

Other (Capacity) \_\_\_\_\_

Other (Type) \_\_\_\_\_

Berms

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	Adequate	Walls Sufficient	Base Sufficient	Adequate

Corrective Action		Corrective Date	
Comment			

<b>Facilities:</b>		<input type="checkbox"/> New Tank	Tank ID: _____		
Contents	#	Capacity	Type	SE GPS	
CONDENSATE	6	300 BBLS	STEEL AST	,	
S/U/V:	Satisfactory		Comment:		
Corrective Action:					Corrective Date:

Paint

Condition	Adequate
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Other (Content) \_\_\_\_\_

Other (Capacity) \_\_\_\_\_

Other (Type) \_\_\_\_\_

Berms

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	Adequate	Walls Sufficient	Base Sufficient	Adequate

Corrective Action		Corrective Date	
Comment			

<b>Venting:</b>		
Yes/No	Comment	

<b>Flaring:</b>				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

**Predrill**

Location ID: 335538  
**Site Preparation:**

Lease Road Adeq.: \_\_\_\_\_

Pads: \_\_\_\_\_

Soil Stockpile: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

Date: \_\_\_\_\_ CDP Num.: \_\_\_\_\_

**Form 2A COAs:**

Group	User	Comment	Date
OGLA	kubeczkod	<p>SITE SPECIFIC COAs:</p> <p>Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines or buried permanent pipelines.</p> <p>If the well is to be hydraulically stimulated, flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or pit located on the well pad or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.</p>	05/15/2012

**Comment:** \_\_\_\_\_**CA:** \_\_\_\_\_**Date:** \_\_\_\_\_**Wildlife BMPs:**

BMP Type	Comment
Wildlife	<p>MITIGATION PLAN BEST MANAGEMENT PRACTICES:</p> <ul style="list-style-type: none"> <li>• Closed loop (pitless) drilling system.</li> <li>• Participation in raptor and other birds (great blue heron) monitoring and surveying with protocol to be developed by CDOW and implemented by Antero when practicable.</li> <li>• Buried water and gas pipelines as means to reduce truck traffic.</li> <li>• Seasonal raptor RSOs for species not included in new COGCC rules will be considered where practicable.</li> <li>• Avoidance/seclusion area in the northeast corner of the CDP (Burning Mountain) unless lease expiration warrants development.</li> <li>• Restricted rig operation to less than 2 per section within the big game seclusion areas during the winter (to be determined in consultation with CDOW).</li> <li>• Maintaining a ¼ mile no surface occupancy buffer around active bald eagle nests.</li> <li>• New pad construction not to exceed 3 acres.</li> <li>• Pad density not to exceed 1 pad per 120 acres.</li> <li>• Bury all gas and water pipelines adjacent to roads whenever possible.</li> <li>• The mitigation opportunities/projects will be defined by the Mitigation Plan for each well pad.</li> <li>• The mitigation opportunities/projects will be determined cooperatively with the CDOW during the annual Antero Mitigation Plan Review.</li> <li>• CDOW Actions to Minimize Adverse Impacts to Wildlife Resources is attached to the March 22, 2010 Mitigation Plan</li> </ul>
Planning	<p>PLANNING INFRASTRUCTURE AND DEVELOPMENT ACTIVITIES:</p> <ul style="list-style-type: none"> <li>• Directional drilling will be implemented to minimize habitat loss and habitat fragmentation</li> <li>• Remote monitoring using SCADA systems to reduce truck traffic, fugitive dust</li> <li>• Water pipeline infrastructure will be installed concurrently with the gas pipeline infrastructure where possible.</li> <li>• SPCC inspections will be conducted quarterly</li> <li>• Water used for well completions will be recycled as practicable</li> <li>• Baseline and post drilling/completion water well testing will be performed for permitted water wells within ½ mile of down-hole location</li> <li>• Annual planning meeting to be conducted with Rifle-Silt-New Castle Community</li> </ul>
Site Specific	<p>PUBLIC WATER SYSTEM PROTECTION SECTION 317B:</p> <ul style="list-style-type: none"> <li>• Best management practices will be implemented to contain any unintentional releases of fluids for locations within 500 feet of surface water</li> <li>• Locations within 500 feet of surface water will ensure 110 percent secondary containment for any volume of fluids contained at a well site during drilling and completion operations</li> </ul>

Drilling/Completion Operations	<b>DRILLING AND PRODUCTION:</b> <ul style="list-style-type: none"> <li>• No reserve, drill cuttings or frac/flowback pits will be constructed</li> <li>• Well pads will be constructed with perimeter berm on downslope area</li> <li>• Well pads, access roads will be graveled to reduce fugitive dust, sediment run-off</li> <li>• Above-ground facilities will be located to minimize visual effects (e.g. production tanks will be low profile tanks and painted to mitigate visual impacts.)</li> <li>• Combustor controls will be used to mitigate odors from production tanks</li> <li>• Well completions will utilize flowback completion technologies and/or flares to reduce odors from plug drillout, and venting of salable and non-salable gas</li> <li>• High level alarms will be installed on production tanks</li> <li>• Production tank containment area will be lined with plastic</li> </ul>
General Housekeeping	<b>INVASIVE NON-NATIVE VEGETATION CONTROL:</b> <ul style="list-style-type: none"> <li>• Weed management plan will be developed and implemented to monitor and control noxious and invasive weeds</li> <li>• Noxious weed control includes three treatments per year</li> <li>• Existing weed infestations will be mapped prior to the development of each pad, access road and pipeline when practicable</li> <li>• Reclamation/revegetation will be used as a weed management tool</li> </ul>
Storm Water/Erosion Control	<b>STORMWATER MANAGEMENT:</b> <ul style="list-style-type: none"> <li>• Facilities will be operated with a Water Quality Control Division (WQCD) stormwater construction permit.</li> <li>• Stormwater BMPs in accordance with the Stormwater Management Plan will be implemented in a manner that minimizes erosion, transport of sediment offsite, and site degradation.</li> <li>• Inspections will be conducted every two weeks or monthly and in accordance with WQCD General Permit to confirm that applicable BMPs are in place, maintained and functioning properly.</li> </ul>

**Comment:****CA:****Date:****Stormwater:**

Erosion BMPs	Present	Other BMPs	Present

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: Erosion BMPs: \_\_\_\_\_

Other BMPs: \_\_\_\_\_

**Comment:****Staking:****On Site Inspection (305):**Surface Owner Contact Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Cell Phone: \_\_\_\_\_

Operator Rep. Contact Information:

Landman Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Date Onsite Request Received: \_\_\_\_\_

Date of Rule 306 Consultation: \_\_\_\_\_

Request LGD Attendance: \_\_\_\_\_

LGD Contact Information:

Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_ Agreed to Attend: \_\_\_\_\_

Summary of Landowner Issues:Summary of Operator Response to Landowner Issues:Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

**Facility**

Facility ID: 291070 Type: WELL API Number: 045-14287 Status: IJ Insp. Status: IO

**Underground Injection Control**

UIC Violation: \_\_\_\_\_ Maximum Injection Pressure: \_\_\_\_\_

**UIC Routine**Inj./Tube: Pressure or inches of Hg 2100 Previous Test Pressure \_\_\_\_\_ MPP \_\_\_\_\_  
(e.g. 30 psig or -30" Hg) Inj Zone: COZZ

TC: Pressure or inches of Hg 0 Previous Test Pressure \_\_\_\_\_ Last MIT: 02/05/2011

Brhd: Pressure or inches of Hg 55 Previous Test Pressure \_\_\_\_\_ AnnMTReq: \_\_\_\_\_

Comment: \_\_\_\_\_

Method of Injection: PUMP FEED

Test Type: \_\_\_\_\_ Tbg psi: \_\_\_\_\_ Csg psi: \_\_\_\_\_ BH psi: \_\_\_\_\_

Insp. Status: \_\_\_\_\_

Comment: \_\_\_\_\_

**Environmental****Spills/Releases:**

Type of Spill: \_\_\_\_\_ Description: \_\_\_\_\_ Estimated Spill Volume: \_\_\_\_\_

Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_

Reportable: \_\_\_\_\_ GPS: Lat \_\_\_\_\_ Long \_\_\_\_\_

Proximity to Surface Water: \_\_\_\_\_ Depth to Ground Water: \_\_\_\_\_

**Water Well:**

DWR Receipt Num: \_\_\_\_\_ Owner Name: \_\_\_\_\_ GPS : \_\_\_\_\_ Lat \_\_\_\_\_ Long \_\_\_\_\_

**Field Parameters:**

Sample Location: \_\_\_\_\_

Emission Control Burner (ECB): \_\_\_\_\_

Comment: \_\_\_\_\_

Pilot: \_\_\_\_\_ Wildlife Protection Devices (fired vessels): \_\_\_\_\_

**Reclamation - Storm Water - Pit****Interim Reclamation:**

Date Interim Reclamation Started: \_\_\_\_\_ Date Interim Reclamation Completed: \_\_\_\_\_

Land Use: OTHER, RANGELAND

Comment: \_\_\_\_\_

1003a. Debris removed? \_\_\_\_\_ CM \_\_\_\_\_

CA \_\_\_\_\_ CA Date \_\_\_\_\_

Waste Material Onsite? \_\_\_\_\_ CM \_\_\_\_\_

CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Unused or unneeded equipment onsite? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Pit, cellars, rat holes and other bores closed? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Guy line anchors removed? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_  
 Guy line anchors marked? \_\_\_\_\_ CM \_\_\_\_\_  
 CA \_\_\_\_\_ CA Date \_\_\_\_\_

1003b. Area no longer in use? \_\_\_\_\_ Production areas stabilized ? \_\_\_\_\_

1003c. Compacted areas have been cross ripped? \_\_\_\_\_

1003d. Drilling pit closed? \_\_\_\_\_ Subsidence over on drill pit? \_\_\_\_\_

Cuttings management: \_\_\_\_\_

1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? \_\_\_\_\_

Production areas have been stabilized? \_\_\_\_\_ Segregated soils have been replaced? \_\_\_\_\_

#### RESTORATION AND REVEGETATION

##### Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ Perennial forage re-established \_\_\_\_\_

##### Non-Cropland

Top soil replaced \_\_\_\_\_ Recontoured \_\_\_\_\_ 80% Revegetation \_\_\_\_\_

1003 f. Weeds Noxious weeds? \_\_\_\_\_

Comment: \_\_\_\_\_

Overall Interim Reclamation \_\_\_\_\_

#### **Final Reclamation/ Abandoned Location:**

Date Final Reclamation Started: \_\_\_\_\_ Date Final Reclamation Completed: \_\_\_\_\_

Final Land Use: OTHER, RANGELAND \_\_\_\_\_

Reminder: \_\_\_\_\_

Comment: \_\_\_\_\_

Well plugged \_\_\_\_\_ Pit mouse/rat holes, cellars backfilled \_\_\_\_\_

Debris removed \_\_\_\_\_ No disturbance /Location never built \_\_\_\_\_

Access Roads Regraded \_\_\_\_\_ Contoured \_\_\_\_\_ Culverts removed \_\_\_\_\_

Gravel removed \_\_\_\_\_

Location and associated production facilities reclaimed \_\_\_\_\_ Locations, facilities, roads, recontoured \_\_\_\_\_

Compaction alleviation \_\_\_\_\_ Dust and erosion control \_\_\_\_\_

Non cropland: Revegetated 80% \_\_\_\_\_ Cropland: perennial forage \_\_\_\_\_

Weeds present \_\_\_\_\_ Subsidence \_\_\_\_\_

Comment: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date \_\_\_\_\_

Overall Final Reclamation \_\_\_\_\_

Inspector Name: LONGWORTH, MIKE

<b>Storm Water:</b>						
Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Berms	Pass	Culverts	Pass			
Blankets	Pass	Ditches	Pass			

S/U/V: Satisfactory                      Corrective Date: \_\_\_\_\_

Comment:

CA: