


<b>FORM INSP</b> Rev 05/11	<b>State of Colorado</b> <b>Oil and Gas Conservation Commission</b> 1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109		DE ET OE ES
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Inspection Date:  
06/11/2012

Document Number:  
668100099

Overall Inspection:  
Satisfactory

**FIELD INSPECTION FORM**

Location Identifier	Facility ID <u>335540</u>	Loc ID <u>335540</u>	Tracking Type	Inspector Name: <u>KELLERBY, SHAUN</u>
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**Operator Information:**

OGCC Operator Number: 10079 Name of Operator: ANTERO RESOURCES PICEANCE CORPORATION

Address: 1625 17TH ST STE 300

City: DENVER State: CO Zip: 80202

**Contact Information:**

Contact Name	Phone	Email	Comment
Black, Jon	970 625 9922/(435) 237-1169	jblack@anteroresources.com	Operations Manager: Piceance Basin

**Compliance Summary:**

QtrQtr: NWSE Sec: 16 Twp: 6S Range: 92W

**Inspector Comment:**

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**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
289262	WELL	PR	06/26/2007	GW	045-13707	BURCKLE A1	X
289263	WELL	PR	07/07/2011	LO	045-13706	Burckle Federal A2	X
289264	WELL	PR	11/09/2009	OW	045-13705	BURCKLE A3	X
289265	WELL	XX	02/11/2011	LO	045-13704	Burckle A4	X
289997	WELL	PR	07/08/2010	OW	045-13960	BURCKLE A7	X
289998	WELL	DG	09/15/2007	LO	045-13959	Burckle A8	X
291710	WELL	PR	08/03/2007	LO	045-14516	BURCKLE A11	X
291712	WELL	PR	08/03/2007	LO	045-14515	BURCKLE A9	X
297862	WELL	XX	02/11/2011	LO	045-16989	Burckle A5	X
297863	WELL	XX	02/11/2011	LO	045-16990	Burckle A6	X
298250	WELL	PR	07/02/2011	LO	045-17096	BURCKLE FED CA A10	X
298251	WELL	PR	08/15/2011	LO	045-17097	BURCKLE FED CA A12	X
335540	LOCATION	AC			-	Burckle A Pad	X
422091	WELL	PR	07/08/2011		045-20490	Burckle Federal A14	X
422095	WELL	PR	08/15/2011		045-20491	Burckle Federal A13	X

**Equipment:** Location Inventory

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Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>14</u>	Production Pits: _____
Condensate Tanks: <u>4</u>	Water Tanks: <u>4</u>	Separators: <u>4</u>	Electric Motors: _____
Gas or Diesel Mortors: _____	Cavity Pumps: _____	LACT Unit: _____	Pump Jacks: _____
Electric Generators: _____	Gas Pipeline: <u>1</u>	Oil Pipeline: <u>1</u>	Water Pipeline: <u>1</u>
Gas Compressors: _____	VOC Combustor: <u>1</u>	Oil Tanks: _____	Dehydrator Units: _____
Multi-Well Pits: _____	Pigging Station: <u>1</u>	Flare: _____	Fuel Tanks: _____

**Location**

<b>Signs/Marker:</b>				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
TANK LABELS/PLACARDS	Satisfactory			
WELLHEAD	Satisfactory			
BATTERY	Satisfactory	Sign at the entry of pad and at the separator units		

Emergency Contact Number: (S/U/V) Satisfactory Corrective Date: \_\_\_\_\_

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

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

<b>Spills:</b>				
Type	Area	Volume	Corrective action	CA Date
<input type="checkbox"/> Multiple Spills and Releases?				

<b>Fencing/:</b>				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WELLHEAD	Satisfactory	Stock panel		

**Facilities:**  New Tank Tank ID: \_\_\_\_\_

Contents	#	Capacity	Type	SE GPS
PRODUCED WATER	2	300 BBLS	STEEL AST	,

S/U/V: Satisfactory Comment: \_\_\_\_\_

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

**Paint**

Condition	<u>Adequate</u>
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Other (Content) \_\_\_\_\_

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

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

**Berms**

Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	<u>Adequate</u>			<u>Adequate</u>

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

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

<b>Facilities:</b>		<input type="checkbox"/> New Tank	Tank ID: _____	
Contents	#	Capacity	Type	SE GPS
CONDENSATE	2	300 BBLS	STEEL AST	,
S/U/V:	Satisfactory		Comment:	
Corrective Action:			Corrective Date:	
<u>Paint</u>				
Condition	Adequate			
Other (Content) _____				
Other (Capacity) _____				
Other (Type) _____				
<u>Berms</u>				
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	Adequate			Adequate
Corrective Action			Corrective Date	
Comment				

<b>Facilities:</b>		<input type="checkbox"/> New Tank	Tank ID: _____	
Contents	#	Capacity	Type	SE GPS
CONDENSATE	3	300 BBLS	STEEL AST	,
S/U/V:	Satisfactory		Comment:	
Corrective Action:			Corrective Date:	
<u>Paint</u>				
Condition	Adequate			
Other (Content) _____				
Other (Capacity) _____				
Other (Type) _____				
<u>Berms</u>				
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance
Metal	Adequate			Adequate
Corrective Action			Corrective Date	
Comment				

<b>Facilities:</b>		<input type="checkbox"/> New Tank	Tank ID: _____		
Contents	#	Capacity	Type	SE GPS	
PRODUCED WATER	3	300 BBLS	STEEL AST		
S/U/V:	Satisfactory		Comment: _____		
Corrective Action:				Corrective Date:	
<b>Paint</b>					
Condition	Adequate				
Other (Content) _____					
Other (Capacity) _____					
Other (Type) _____					
<b>Berms</b>					
Type	Capacity	Permeability (Wall)	Permeability (Base)	Maintenance	
Metal	Adequate			Adequate	
Corrective Action				Corrective Date	
Comment					
<b>Venting:</b>					
Yes/No		Comment			
NO					
<b>Flaring:</b>					
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date	

**Predrill**

Location ID: 335540

**Site Preparation:**

Lease Road Adeq.: \_\_\_\_\_ Pads: \_\_\_\_\_ Soil Stockpile: \_\_\_\_\_

Corrective Action: \_\_\_\_\_ Date: \_\_\_\_\_ CDP Num.: \_\_\_\_\_

**Form 2A COAs:**

Group	User	Comment	Date
OGLA	kubeczkod	<p>GENERAL SITE COAs:</p> <p>Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines.</p> <p>Operator must ensure 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 (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.</p> <p>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.</p> <p>Flowback and stimulation fluids must be sent to tanks to allow the sand to settle out before the fluids can be placed into any pipeline or pit located on the well pad. The flowback and stimulation fluid tanks 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 (per Rule 604.a.(4)).</p> <p>Berms or other containment devices shall be constructed in compliance with Rule 604.a.(4) around crude oil, condensate, and produced water storage tanks.</p>	03/07/2011

**Comment:**

**CA:**

**Date:** \_\_\_\_\_

**Wildlife BMPs:**

BMP Type	Comment
Planning	<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>
General Housekeeping	<p>Invasive Non-Native Vegetation Control</p> <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	<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>

Material Handling and Spill Prevention	<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	<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>
Wildlife	<ul style="list-style-type: none"> <li>•Mitigation Plan signed by Ron Velarde, CDOW NW Regional Manager and Kevin Kilstrom, Antero Resources VP Production, on March 24, 2010.</li> <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>

**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: 289262 Type: WELL API Number: 045-13707 Status: PR Insp. Status: PR

Facility ID: 289263 Type: WELL API Number: 045-13706 Status: PR Insp. Status: PR

Facility ID: 289264 Type: WELL API Number: 045-13705 Status: PR Insp. Status: PR

Facility ID: 289265 Type: WELL API Number: 045-13704 Status: XX Insp. Status: IO

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ Pusher/Rig Manager: \_\_\_\_\_  
 Permit Posted: \_\_\_\_\_ Access Sign: \_\_\_\_\_

**Well Control Equipment:**  
 Pipe Ram: \_\_\_\_\_ Blind Ram: \_\_\_\_\_ Hydril Type: \_\_\_\_\_  
 Pressure Test BOP: \_\_\_\_\_ Test Pressure PSI: \_\_\_\_\_ Safety Plan: \_\_\_\_\_

**Drill Fluids Management:**  
 Lined Pit: \_\_\_\_\_ Unlined Pit: \_\_\_\_\_ Closed Loop: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
 Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**  
 conductor set

Facility ID: 289997 Type: WELL API Number: 045-13960 Status: PR Insp. Status: PR

Facility ID: 289998 Type: WELL API Number: 045-13959 Status: DG Insp. Status: IO

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ Pusher/Rig Manager: \_\_\_\_\_  
 Permit Posted: \_\_\_\_\_ Access Sign: \_\_\_\_\_

**Well Control Equipment:**  
 Pipe Ram: \_\_\_\_\_ Blind Ram: \_\_\_\_\_ Hydril Type: \_\_\_\_\_  
 Pressure Test BOP: \_\_\_\_\_ Test Pressure PSI: \_\_\_\_\_ Safety Plan: \_\_\_\_\_

**Drill Fluids Management:**  
 Lined Pit: \_\_\_\_\_ Unlined Pit: \_\_\_\_\_ Closed Loop: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
 Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**  
 conductor set

Facility ID: 291710 Type: WELL API Number: 045-14516 Status: PR Insp. Status: PR

Facility ID: 291712 Type: WELL API Number: 045-14515 Status: PR Insp. Status: PR

Facility ID: 297862 Type: WELL API Number: 045-16989 Status: XX Insp. Status: IO

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ Pusher/Rig Manager: \_\_\_\_\_  
 Permit Posted: \_\_\_\_\_ Access Sign: \_\_\_\_\_

**Well Control Equipment:**

Pipe Ram: \_\_\_\_\_ Blind Ram: \_\_\_\_\_ Hydril Type: \_\_\_\_\_  
 Pressure Test BOP: \_\_\_\_\_ Test Pressure PSI: \_\_\_\_\_ Safety Plan: \_\_\_\_\_

**Drill Fluids Management:**

Lined Pit: \_\_\_\_\_ Unlined Pit: \_\_\_\_\_ Closed Loop: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
 Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**

conductor set

Facility ID: 297863 Type: WELL API Number: 045-16990 Status: XX Insp. Status: IO

**Well Drilling**

**Rig:** Rig Name: \_\_\_\_\_ Pusher/Rig Manager: \_\_\_\_\_  
 Permit Posted: \_\_\_\_\_ Access Sign: \_\_\_\_\_

**Well Control Equipment:**

Pipe Ram: \_\_\_\_\_ Blind Ram: \_\_\_\_\_ Hydril Type: \_\_\_\_\_  
 Pressure Test BOP: \_\_\_\_\_ Test Pressure PSI: \_\_\_\_\_ Safety Plan: \_\_\_\_\_

**Drill Fluids Management:**

Lined Pit: \_\_\_\_\_ Unlined Pit: \_\_\_\_\_ Closed Loop: \_\_\_\_\_ Semi-Closed Loop: \_\_\_\_\_  
 Multi-Well: \_\_\_\_\_ Disposal Location: \_\_\_\_\_

**Comment:**

conductor set

Facility ID: 298250 Type: WELL API Number: 045-17096 Status: PR Insp. Status: PR

Facility ID: 298251 Type: WELL API Number: 045-17097 Status: PR Insp. Status: PR

Facility ID: 335540 Type: LOCATION API Number: - Status: AC Insp. Status: AO

**Complaint**

Comment: Cogcc Doc # 200353142

Facility ID: 422091 Type: WELL API Number: 045-20490 Status: PR Insp. Status: PR

Facility ID: 422095 Type: WELL API Number: 045-20491 Status: PR Insp. Status: PR

**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:**

Lat \_\_\_\_\_ Long \_\_\_\_\_

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

**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: RANGELAND

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

1003a. Debris removed? Pass CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_

Waste Material Onsite? Pass CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_

Unused or unneeded equipment onsite? Pass CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_

Pit, cellars, rat holes and other bores closed? In CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_

Guy line anchors removed? In CM \_\_\_\_\_ CA \_\_\_\_\_ CA Date \_\_\_\_\_

Guy line anchors marked? Fail CM Markers knocked down

CA replace or repair markers CA Date 06/30/2012

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

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

1003d. Drilling pit closed? In 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: 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

**Storm Water:**

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
		Waddles	Pass			
Berms	Pass	Check Dams	Pass			
		Rip Rap	Pass			
Blankets	Pass	Blankets	Pass	MHSP	Pass	

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

Comment: Blankets on pad site are in need to be maintained.

CA: \_\_\_\_\_