

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:
06/12/2012

Document Number:
668100102

Overall Inspection:
Unsatisfactory

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Tracking Type	Inspector Name: <u>KELLERBY, SHAUN</u>
	<u>335549</u>	<u>335549</u>		

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: SENW Sec: 17 Twp: 6S Range: 92W

Inspector Comment:

Lease road and location need further dust control. Waste materials and stained soil need to be removed from the pad site.

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
289820	WELL	XX	03/08/2012	LO	045-13883	Gentry B4	X
289821	WELL	PR	10/12/2007	GW	045-13882	GENTRY B3	X
289849	WELL	PR	10/06/2007	GW	045-13887	GENTRY B1	X
289850	WELL	XX	01/06/2012	LO	045-13886	Gentry B2	X
290737	WELL	XX	03/08/2012	LO	045-14189	Gentry B5	X
290738	WELL	PR	10/24/2007	GW	045-14188	GENTRY B10	X
290739	WELL	PR	10/14/2007	GW	045-14187	GENTRY B11	X
294757	WELL	XX	01/06/2012	LO	045-15584	Gentry B7	X
294758	WELL	XX	01/06/2012	LO	045-15585	Gentry B9	X
294759	WELL	XX	01/06/2012	LO	045-15586	Gentry B8	X
294760	WELL	XX	03/09/2012	LO	045-15587	Gentry B12	X
294761	WELL	XX	03/09/2012	LO	045-15588	Gentry B13	X
294762	WELL	XX	01/06/2012	LO	045-15589	Gentry B14	X
294763	WELL	XX	03/08/2012	LO	045-15590	Gentry B6	X
335549	LOCATION	AC			-	Gentry B Pad	X

Equipment:

Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>14</u>	Production Pits: _____
Condensate Tanks: <u>2</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

Lease Road:

Type	Satisfactory/Unsatisfactory	comment	Corrective Action	Date
Main	Unsatisfactory	Dust observed when Antero personal used lease road.	Control all dust as required by rule 805	06/30/2012

Signs/Marker:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WELLHEAD	Satisfactory	Signs are posted on 4 producing wells		
WELLHEAD	Unsatisfactory	Two conductors are not identified	Install sign to comply with rule 210.b.	07/31/2012
BATTERY	Satisfactory	Sign is located at the entry of pad		
TANK LABELS/PLACARDS	Satisfactory	One tank label is missing		

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

Comment: _____

Corrective Action: _____

Good Housekeeping:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
OTHER	Unsatisfactory	Approximately 300sks of Fracking sand on the ground.	Remove all waste material from the pad site.	06/30/2012

Spills:

Type	Area	Volume	Corrective action	CA Date
Lube Oil		<= 5 bbls	Stained soil in the area used by the Frack crew during stimulation operations.	06/30/2012

Multiple Spills and Releases?

Equipment:

Type	#	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
Deadman # & Marked		Satisfactory			
Emission Control Device	3	Satisfactory	One permanet, and two used for completion operations		
Ancillary equipment		Satisfactory	Water pipe and manifold		
Horizontal Heated Separator	14	Satisfactory			

Bird Protectors	Satisfactory			
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Facilities: 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: _____

Paint

Condition Adequate

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

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

Corrective Action _____ Corrective Date _____

Comment _____

Facilities: New Tank Tank ID: _____

Contents	#	Capacity	Type	SE GPS
CONDENSATE	3	300 BBLS	STEEL AST	,

S/U/V: Satisfactory Comment: _____

Corrective Action: One label missing Corrective Date: _____

Paint

Condition Adequate

Other (Content) _____

Other (Capacity) _____

Other (Type) _____

Berms

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

Corrective Action _____ Corrective Date _____

Comment _____

Venting:

Yes/No	Comment
NO	

Flaring:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

Predrill

Location ID: 335549

Site Preparation:
 Lease Road Adeq.: _____ Soil Stockpile: _____

Pads:

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 or buried pipelines.</p> <p>Any pit constructed to hold fluids (reserve pit, production pit, frac pit; except for flare pit, if built) must be lined, or a closed loop system (as indicated by operator on the Form 2A) must be implemented .</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, if drill cuttings are to remain/disposed of onsite, or to be recycled and used offsite, the drill cuttings must also meet the applicable standards of table 910-1.</p> <p>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> <p>Berms or other containment devices shall be constructed to be sufficiently impervious to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.</p>	12/29/2011

Comment: No pits used on location. All tanks are lined, Tanks used for Fracking operations have a gravel berm. Location has Berm's

CA: _____

Date: _____

Wildlife BMPs:

BMP Type	Comment
Wildlife	<p>Wildlife Mitigation Plan Supplemental Best Management Practices Antero Rifle-Silt (Gravel Trend) Leasehold – March 24, 2010</p> <p>1. Drilling and Production No reserve, drill cuttings or frac/flowback pits will be constructed. Well pads will be constructed with perimeter berm on downslope area. Well pads, access roads will be graveled to reduce fugitive dust, sediment run-off. 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). Combustor controls will be used to mitigate odors from production tanks. Well completions will utilize flowback completion technologies and/or flares to reduce odors from plug drillout, and venting of salable and non-salable gas. High level alarms will be installed on production tanks. Production tank containment area will be lined with plastic.</p> <p>2. Invasive Non-Native Vegetation Control</p>

Weed management plan will be developed and implemented to monitor and control noxious and invasive weeds.
 Noxious weed control includes three treatments per year.
 Existing weed infestations will be mapped prior to the development of each pad, access road and pipeline when practicable.
 Reclamation/revegetation will be used as a weed management tool.

3.Planning Infrastructure and Development Activities
 Directional drilling will be implemented to minimize habitat loss and habitat fragmentation.
 Remote monitoring using SCADA systems to reduce truck traffic, fugitive dust.
 Water pipeline infrastructure will be installed concurrently with the gas pipeline infrastructure where possible.
 SPCC inspections will be conducted quarterly.
 Water used for well completions will be recycled as practicable.
 Baseline and post drilling/completion water well testing will be performed for permitted water wells within ½ mile of down-hole location.
 Annual planning meeting to be conducted with Rifle-Silt-New Castle Community.

4.Stormwater Management
 Facilities will be operated with a Water Quality Control Division (WQCD) stormwater construction permit.
 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.
 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.

5.Public Water System Protection Section 317B(d)
 Best management practices will be implemented to contain any unintentional releases of fluids for locations within 500 feet of surface water 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.

6.Mitigation Plan Best Management Practices
 Mitigation Plan signed by Ron Velarde, CDOW NW Regional Manager and Kevin Kilstrom, Antero Resources VP Production, on March 24, 2010.
 Closed loop (pitless) drilling system.
 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.
 Buried water and gas pipelines as means to reduce truck traffic.
 Seasonal raptor RSOs for species not included in new COGCC rules will be considered where practicable.
 Avoidance/seclusion area in the northeast corner of the CDP (Burning Mountain) unless lease expiration warrants development.
 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).
 Maintaining a ¼ mile no surface occupancy buffer around active bald eagle nests.
 New pad construction not to exceed 3 acres.
 Pad density not to exceed 1 pad per 120 acres.
 Bury all gas and water pipelines adjacent to roads whenever possible.
 The mitigation opportunities/projects will be defined by the Mitigation Plan for each well pad.
 The mitigation opportunities/projects will be determined cooperatively with the CDOW during the annual Antero Mitigation Plan Review.
 CDOW Actions to Minimize Adverse Impacts to Wildlife Resources is attached to the March 22, 2010 Mitigation Plan.

Comment: Speed limit sign, and limited gravel in place on the lease road. Continued dust control is needed.

CA: **Date:** _____

Stormwater:

Erosion BMPs	Present	Other BMPs	Present
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Corrective Action: _____		Date: _____	
Comments: Erosion BMPs: _____			
Other BMPs: _____			
Comment: _____			
Staking: _____			
On Site Inspection (305):			
<u>Surface Owner Contact Information:</u>			
Name: _____		Address: _____	
Phone Number: _____		Cell Phone: _____	
<u>Operator Rep. Contact Information:</u>			
Landman Name: _____		Phone Number: _____	
Date Onsite Request Received: _____		Date of Rule 306 Consultation: _____	
Request LGD Attendance: _____			
<u>LGD Contact Information:</u>			
Name: _____		Phone Number: _____	Agreed to Attend: _____
<u>Summary of Landowner Issues:</u>			
<u>Summary of Operator Response to Landowner Issues:</u>			
<u>Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:</u>			

Facility

Facility ID: <u>289820</u>	Type: <u>WELL</u>	API Number: <u>045-13883</u>	Status: <u>XX</u>	Insp. Status: <u>UN</u>
Facility ID: <u>289821</u>	Type: <u>WELL</u>	API Number: <u>045-13882</u>	Status: <u>PR</u>	Insp. Status: <u>PR</u>
Facility ID: <u>289849</u>	Type: <u>WELL</u>	API Number: <u>045-13887</u>	Status: <u>PR</u>	Insp. Status: <u>PR</u>
Facility ID: <u>289850</u>	Type: <u>WELL</u>	API Number: <u>045-13886</u>	Status: <u>XX</u>	Insp. Status: <u>WO</u>
Facility ID: <u>290737</u>	Type: <u>WELL</u>	API Number: <u>045-14189</u>	Status: <u>XX</u>	Insp. Status: <u>UN</u>
Facility ID: <u>290738</u>	Type: <u>WELL</u>	API Number: <u>045-14188</u>	Status: <u>PR</u>	Insp. Status: <u>PR</u>
Facility ID: <u>290739</u>	Type: <u>WELL</u>	API Number: <u>045-14187</u>	Status: <u>PR</u>	Insp. Status: <u>PR</u>
Facility ID: <u>294757</u>	Type: <u>WELL</u>	API Number: <u>045-15584</u>	Status: <u>XX</u>	Insp. Status: <u>WO</u>

Workover

Comment: PWS rig 55 drilling out plugs on 045-15584. Drilling flow back used with a self contained flow back unit and a double VOC burner unit. No open top tanks are used during the drilling process.

Facility ID: <u>294758</u>	Type: <u>WELL</u>	API Number: <u>045-15585</u>	Status: <u>XX</u>	Insp. Status: <u>WO</u>
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Facility ID:	294759	Type:	WELL	API Number:	045-15586	Status:	XX	Insp. Status:	WO
Facility ID:	294760	Type:	WELL	API Number:	045-15587	Status:	XX	Insp. Status:	UN
Facility ID:	294761	Type:	WELL	API Number:	045-15588	Status:	XX	Insp. Status:	UN
Facility ID:	294762	Type:	WELL	API Number:	045-15589	Status:	XX	Insp. Status:	WO
Facility ID:	294763	Type:	WELL	API Number:	045-15590	Status:	XX	Insp. Status:	UN
Facility ID:	335549	Type:	LOCATION	API Number:	-	Status:	AC	Insp. Status:	AO

Complaint

Comment: Cogcc Doc # 200353587
 Cogcc Doc # 200353142

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: RANGELAND

Comment: _____

1003a. Debris removed? In CM _____ CA _____ CA Date _____
 Waste Material Onsite? In CM _____ CA _____ CA Date _____
 Unused or unneeded equipment onsite? In CM _____

CA _____ CA Date _____
 Pit, cellars, rat holes and other bores closed? In CM No pits
 CA _____ CA Date _____
 Guy line anchors removed? In CM _____
 CA _____ CA Date _____
 Guy line anchors marked? In 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? _____ P _____

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
Blankets	Pass	Gravel	Pass			
		Check Dams	Pass			
Berms	Pass	Culverts	Pass	MHSP	Pass	

S/U/V: Satisfactory Corrective Date: _____

Comment: Limited Gravel on lease road and location.

CA: _____