

FORM INSP Rev 05/11	State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109		DE ET OE ES
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Inspection Date:
03/02/2012

Document Number:
663800194

Overall Inspection:
Satisfactory

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Tracking Type	Inspector Name: <u>LONGWORTH, MIKE</u>
	<u>290738</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	jblack@anteroresources.com	Operations Manager: Piceance Basin

Compliance Summary:

QtrQtr: SENW Sec: 17 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)
06/08/2010	200257791	SR	PR	S			N

Inspector Comment:

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	
289820	WELL	AL	01/19/2012	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	AL	01/19/2012	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	AL	01/19/2012	LO	045-15587	Gentry B12	X
294761	WELL	AL	01/19/2012	LO	045-15588	Gentry B13	X
294762	WELL	XX	01/06/2012	LO	045-15589	Gentry B14	X
294763	WELL	AL	01/19/2012	LO	045-15590	Gentry B6	X
335549	LOCATION	AC	04/14/2009		-	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
Access	Satisfactory			

Signs/Marker:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
TANK LABELS/PLACARDS	Satisfactory			
WELLHEAD	Satisfactory			
OTHER	Satisfactory	sign for the existing conductors		
BATTERY	Satisfactory			

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

Comment: _____

Corrective Action: _____

Good Housekeeping:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
TRASH	Satisfactory			

Spills:

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

Fencing/:

Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
WELLHEAD	Satisfactory			

Equipment:

Type	#	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date
Plunger Lift	3	Satisfactory			
Horizontal Heated Separator	4	Satisfactory			
Bird Protectors	2	Satisfactory			

Tanks/Berms: <input type="checkbox"/> New Tank		Tank ID: _____		
Contents	#	Capacity	Type	SE GPS
CONDENSATE	4	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	Walls Sufficient	Base Sufficient	Adequate
Corrective Action	_____			Corrective Date _____
Comment	_____			
Venting:				
Yes/No	Comment _____			
Flaring:				
Type	Satisfactory/Unsatisfactory	Comment	Corrective Action	CA Date

Predrill

Location ID: 335549

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 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

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 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.</p> <p>3.Planning Infrastructure and Development Activities</p>

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 1/2 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 1/4 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.

Stormwater:

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:

Well

Facility ID:	289820	API Number:	045-13883	Status:	AL	Insp. Status:	AL
Facility ID:	289821	API Number:	045-13882	Status:	PR	Insp. Status:	PR
Facility ID:	289849	API Number:	045-13887	Status:	PR	Insp. Status:	PR
Facility ID:	289850	API Number:	045-13886	Status:	XX	Insp. Status:	DG

Well Drilling

Rig: Rig Name: Craigs Pusher/Rig Manager: Beaude Oaks
 Permit Posted: Satisfactory Access Sign: Satisfactory

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:

Facility ID:	290737	API Number:	045-14189	Status:	AL	Insp. Status:	AL
Facility ID:	290738	API Number:	045-14188	Status:	PR	Insp. Status:	PR
Facility ID:	290739	API Number:	045-14187	Status:	PR	Insp. Status:	PR
Facility ID:	294757	API Number:	045-15584	Status:	XX	Insp. Status:	ND
Facility ID:	294758	API Number:	045-15585	Status:	XX	Insp. Status:	ND
Facility ID:	294759	API Number:	045-15586	Status:	XX	Insp. Status:	ND
Facility ID:	294760	API Number:	045-15587	Status:	AL	Insp. Status:	AL
Facility ID:	294761	API Number:	045-15588	Status:	AL	Insp. Status:	AL

Facility ID: 294762 API Number: 045-15589 Status: XX Insp. Status: DG

Well Drilling

Rig: Rig Name: Craigs Pusher/Rig Manager: Beau Oaks
 Permit Posted: Satisfactory Access Sign: Satisfactory

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:

Cement

Cement Contractor

Contractor Name: Halliburton Contractor Phone: _____

Surface Casing

Cement Volume (sx): 160L 205T Circulate to Surface: YES
 Cement Fall Back: _____ Top Job, 1" Volume: NO

Intermediate Casing

Cement Volume (sxs): _____ Good Return During Job: _____

Production Casing

Cement Volume (sx): _____ Good Return During Job: _____

Plugging Operations

Depth Plugs(feet range): _____ Cement Volume (sx): _____

Good Return During Job: _____ Cement Type: _____

Comment: Held safety meeting with Haliburton Cementers, Pressure test lines to 3000 psi. Pump Cement Job as follows: 20 bbls of 8.4 ppg fresh water spacer 67.8 bbls of 12.3 ppg lead cement (160 sacks) with 2.38 yield at 13.77 gals/sack. 52.2 bbls of 14.2 ppg tail cement (205 sacks) with 1.43 yield at 6.85 gals/sack gained circulation with 65 bbls of tail gone, shut down and dropped Top plug and displaced 62.0 bbls of freshwater, slowed rate to 2 bpm last 10 bbls of displacement Casing circulating pressure was 340 psi when bumped plug to 990 psi and held pressure for 3 minutes, Checked floats and floats Held. Had a total of 21 bbls of cement back to surface Riggged down Haliburton Cementers.

Facility ID: 294763 API Number: 045-15590 Status: AL Insp. Status: AL

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? _____ 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: 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

S/U/V: _____ Corrective Date: _____

Comment: _____

CA: _____