

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



DE	ET	OE	ES
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Inspection Date:
02/28/2013

Document Number:
670200241

Overall Inspection:
Satisfactory

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Tracking Type	Inspector Name: <u>BURGER, CRAIG</u>
	<u>301818</u>	<u>335538</u>		

Operator Information:

OGCC Operator Number: <u>10079</u>	Name of Operator: <u>ANTERO RESOURCES PICEANCE CORPORATION</u>
Address: <u>1625 17TH ST STE 300</u>	
City: <u>DENVER</u>	State: <u>CO</u> Zip: <u>80202</u>

Contact Information:

Contact Name	Phone	Email	Comment
Kellerby, Shaun		Shaun.Kellerby@state.co.us	NW Field Supervisor
Black, Jon	970 625 9922/(435) 237-1169	jblack@anteroresources.com	Operations Manager: Piceance Basin

Compliance Summary:

QtrQtr: <u>NWSW</u>	Sec: <u>14</u>	Twp: <u>6S</u>	Range: <u>92W</u>				
Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Unsatisfactory	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
12/22/2010	200291034	OI	ND	S			N

Inspector Comment:

CalFrac performing slickwater hydraulic frac on stage 3 perforated interval 11,129 to 11,379 feet.72 perforations in stage. 16 foot high noise mitigation wall installed around portions of location perimeter. Green completions equipment on site.

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	SI	10/04/2012	GW	045-14287	VALLEY FARMS F4
291071	WELL	XX	08/28/2012	LO	045-14288	Valley Farms F6
291072	WELL	PR	12/07/2009	GW	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	GW	045-16012	VALLEY FARMS FEDERAL F14
297266	WELL	XX	08/28/2012	LO	045-16368	Valley Farms F22
297267	WELL	XX	08/28/2012	LO	045-16369	Valley Farms F12
301813	WELL	XX	08/28/2012	LO	045-18281	Valley Farms F17
301814	WELL	XX	08/28/2012	LO	045-18282	Valley Farms F16
301815	WELL	XX	08/28/2012	LO	045-18283	Valley Farms F15
301816	WELL	XX	08/28/2012	LO	045-18284	Valley Farms F18
301817	WELL	XX	08/28/2012	LO	045-18285	Valley Farms F13

301818	WELL	WO	10/29/2012	LO	045-18286	Valley Farms F-1H	<input checked="" type="checkbox"/>
301819	WELL	XX	08/28/2012	LO	045-18287	Valley Farms F21	<input type="checkbox"/>
301820	WELL	XX	08/28/2012	LO	045-18288	Valley Farms F20	<input type="checkbox"/>
301821	WELL	XX	08/28/2012	LO	045-18289	Valley Farms F19	<input type="checkbox"/>
301822	WELL	XX	08/28/2012	LO	045-18290	Valley Farms F9	<input type="checkbox"/>
301823	WELL	XX	08/28/2012	LO	045-18291	Valley Farms F10	<input type="checkbox"/>
301824	WELL	XX	08/28/2012	LO	045-18292	Valley Farms F11	<input type="checkbox"/>

Equipment: Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>23</u>	Production Pits: _____
Condensate Tanks: <u>4</u>	Water Tanks: <u>6</u>	Separators: <u>6</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

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

Comment: _____

Corrective Action: _____

Spills:

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

Venting:

Yes/No	Comment

Flaring:

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"> • 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
Planning	<p>PLANNING INFRASTRUCTURE AND DEVELOPMENT ACTIVITIES:</p> <ul style="list-style-type: none"> • 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
Site Specific	<p>PUBLIC WATER SYSTEM PROTECTION SECTION 317B:</p> <ul style="list-style-type: none"> • 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

Drilling/Completion Operations	DRILLING AND PRODUCTION: <ul style="list-style-type: none"> • 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
General Housekeeping	INVASIVE NON-NATIVE VEGETATION CONTROL: <ul style="list-style-type: none"> • 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
Storm Water/Erosion Control	STORWATER MANAGEMENT: <ul style="list-style-type: none"> • 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.

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: 301818 Type: WELL API Number: 045-18286 Status: WO Insp. Status: WK

Well Stimulation

Stimulation Company: CalFrac Stimulation Type: HYDRAULIC FRAC
Observation: Other: _____
Maximum Casing Recorded: 7700 PSI Tubing: _____
Surface: 4 Intermediate: _____
Production: _____ Instantaneous Shut-In Pressure (ISIP) 4850
Bradenhead Psi: -1 Frac Flow Back: Fluid: _____ Gas: _____

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

Multi-Well Location

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: _____	