

**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:  
11/21/2015Document Number:  
680100305Overall Inspection:  
SATISFACTORY**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	420215	420223	Colby, Lou	<input type="checkbox"/>	

**Operator Information:**

OGCC Operator Number: 10079

Name of Operator: ANTERO RESOURCES PICEANCE LLC

Address: 1625 17TH ST STE 300

City: DENVER State: CO Zip: 80202

- ☐ THIS IS A FOLLOW UP INSPECTION
- ☐ FOLLOW UP INSPECTION REQUIRED
- ☒ NO FOLLOW UP INSPECTION REQUIRED
- ☐ INSPECTOR REQUESTS FORM 42 WHEN CORRECTIVE ACTIONS ARE COMPLETED

**Contact Information:**

Contact Name	Phone	Email	Comment
Bleil, Rob	(720) 508-8350	rbleil@ursaresources.com	Regulatory & Environmental Manager
Knudson, Dwayne	(970) 456-3335	dknudson@ursaresources.com	

**Compliance Summary:**QtrQtr: NESE Sec: 13 Twp: 6S Range: 92W**Inspector Comment:**

This is an abandoned location inspection for wells API 045-20105, 045-20108, 045-20109, 045-20115, 045-20116, 045-20129, 045-20134, 045-20137. It does not appear that these 8 Wells were drilled on the location with 14 producing and 2 DG Wells; therefore, this is a MultipleWell release on an active location. Form 4s, Abandon permits approved 2012 and one, 045-2105 in 2011.

**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status	
420215	WELL	AL	11/28/2011	LO	045-20105	McLin C21	ND	<input checked="" type="checkbox"/>
420217	WELL	PR	08/29/2012	GW	045-20107	McLin C7	PR	<input type="checkbox"/>
420227	WELL	AL	04/23/2012	LO	045-20108	McLin C1	ND	<input checked="" type="checkbox"/>
420228	WELL	AL	03/14/2012	LO	045-20109	McLin C4	ND	<input checked="" type="checkbox"/>
420236	WELL	PR	08/29/2012	GW	045-20112	McLin C2	PR	<input type="checkbox"/>
420279	WELL	PR	03/03/2014	GW	045-20113	McLin C3	PR	<input type="checkbox"/>
420285	WELL	AL	06/01/2012	LO	045-20115	McLin C10	ND	<input checked="" type="checkbox"/>
420287	WELL	AL	06/01/2012	LO	045-20116	McLin C11	ND	<input checked="" type="checkbox"/>
420289	WELL	PR	03/30/2012	GW	045-20117	McLin C16	PR	<input type="checkbox"/>
420291	WELL	PR	03/03/2014	GW	045-20118	McLin C5	PR	<input type="checkbox"/>

Inspector Name: Colby, Lou

420328	WELL	AL	06/01/2012	LO	045-20129	McLin C9	ND	<input checked="" type="checkbox"/>
420329	WELL	PR	10/29/2012	GW	045-20130	McLin C20	PR	<input type="checkbox"/>
420331	WELL	PR	08/29/2012	GW	045-20131	McLin C13	PR	<input type="checkbox"/>
420332	WELL	PR	11/30/2013	GW	045-20132	McLin C15	PR	<input type="checkbox"/>
420333	WELL	PR	08/29/2012	GW	045-20133	McLin C24	PR	<input type="checkbox"/>
420335	WELL	AL	06/01/2012	LO	045-20134	McLin C12	ND	<input checked="" type="checkbox"/>
420336	WELL	DG	05/09/2014	LO	045-20135	McLin C8	DG	<input type="checkbox"/>
420338	WELL	DG	05/10/2014	LO	045-20136	McLin C17	DG	<input type="checkbox"/>
420339	WELL	AL	04/23/2012	LO	045-20137	McLin C14	ND	<input checked="" type="checkbox"/>
420340	WELL	PR	08/29/2012	GW	045-20138	McLin C23	PR	<input type="checkbox"/>
420341	WELL	PR	10/29/2012	GW	045-20139	McLin C19	PR	<input type="checkbox"/>
420343	WELL	PR	10/29/2012	GW	045-20140	McLin C18	PR	<input type="checkbox"/>
420344	WELL	PR	08/29/2012	GW	045-20141	McLin C22	PR	<input type="checkbox"/>
420345	WELL	PR	11/30/2013	GW	045-20142	MCLIN C6	PR	<input type="checkbox"/>

**Equipment:**

Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: <u>24</u>	Production Pits: _____
Condensate Tanks: <u>4</u>	Water Tanks: <u>4</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/A/V): \_\_\_\_\_ Corrective Date: \_\_\_\_\_

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

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

**Spills:**

Type	Area	Volume	Corrective action	CA Date
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☐ Multiple Spills and Releases?

**Venting:**

Yes/No	Comment

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

**Predrill**

Location ID: 420215

**Site Preparation:**

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

**S/A/V:** \_\_\_\_\_

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

**Form 2A COAs:**

Group	User	Comment	Date
OGLA	kubeczko	Flowback to tanks only. Operator must submit a secondary and tertiary containment plan via sundry notice Form 4 for the tanks to Dave Kubeczko. Operator must obtain approval of the plan prior to fracing flowback operations.	10/05/2010
OGLA	kubeczko	The location is in an area of high run off/run-on potential from the proposed pad area to the west and north; additionally, the surface soils and materials are very fine-grained; therefore the pad shall be constructed as quickly as possible and appropriate BMPs need to be in place both during, after well pad construction completion, as well as during all drilling and well completion operations. Standard stormwater BMPs must be implemented at this location to insure compliance with CDPHE and COGCC requirements and to prevent any stormwater run-on and /or stormwater runoff.	10/05/2010
Engineer	krabachj	in the engr/env tab, reference is made to either the subject well or subject wells. What are the subject wells?	11/26/2013
OGLA	kubeczko	Operator must implement best management practices to contain any unintentional release of fluids.	10/05/2010
OGLA	kubeczko	No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and certified by a professional engineer, subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.	10/05/2010
OGLA	kubeczko	The nearby hillside to the west must be monitored for any day-lighting of drilling fluids throughout the drilling of the surface casing interval.	10/05/2010
OGLA	kubeczko	Location is in a sensitive area because of its proximity to surface water; therefore, operator must ensure 110 percent 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., BMPs associated with stormwater management) sufficiently protective of nearby surface water. If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.	10/05/2010

OGLA	kubeczkod	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.	10/05/2010
OGLA	kubeczkod	Reserve pit (if constructed) must be lined or a closed loop system (which has already been indicated by Antero on the Form 2A) must be implemented during drilling; however, Antero will be using a closed loop drilling system, therefore, a reserve pit will not be constructed.	10/05/2010
OGLA	kubeczkod	The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water (McLin Ditch) or any drainages leading to other nearby surface waters (Ward-Reynolds Ditch).	10/05/2010
OGLA	kubeczkod	Location is in a sensitive area because of proximity to a domestic water well and potential for shallow groundwater; therefore production pits must be lined.	10/05/2010
OGLA	kubeczkod	Location is in a sensitive area because of proximity to a domestic water well and potential for shallow groundwater; therefore either a lined drilling pit or closed loop system must be implemented.	10/05/2010

**S/AV:** \_\_\_\_\_ **Comment:** \_\_\_\_\_

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

#### **Wildlife BMPs:**

BMP Type	Comment
Planning	<p><b>PLANNING INFRASTRUCTURE AND DEVELOPMENT ACTIVITIES:</b></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><b>PUBLIC WATER SYSTEM PROTECTION - SECTION 317B(d):</b></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>
General Housekeeping	<p><b>INVASIVE NON-NATIVE VEGETATION CONTROL:</b></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>

Wildlife	<b>MITIGATION PLAN BEST MANAGEMENT PRACTICES:</b> <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>
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>
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>

**S/A/V:** \_\_\_\_\_ **Comment:** \_\_\_\_\_

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

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

Inspector Name: Colby, Lou

Summary of Landowner Issues:

Summary of Operator Response to Landowner Issues:

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

**Facility**

Facility ID: 420215 Type: WELL API Number: 045-20105 Status: AL Insp. Status: ND

Facility ID: 420227 Type: WELL API Number: 045-20108 Status: AL Insp. Status: ND

Facility ID: 420228 Type: WELL API Number: 045-20109 Status: AL Insp. Status: ND

Facility ID: 420285 Type: WELL API Number: 045-20115 Status: AL Insp. Status: ND

Facility ID: 420287 Type: WELL API Number: 045-20116 Status: AL Insp. Status: ND

Facility ID: 420328 Type: WELL API Number: 045-20129 Status: AL Insp. Status: ND

Facility ID: 420335 Type: WELL API Number: 045-20134 Status: AL Insp. Status: ND

Facility ID: 420339 Type: WELL API Number: 045-20137 Status: AL Insp. Status: ND

**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:

Inspector Name: Colby, Lou

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

Land Use: HAY MEADOW, 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: HAY MEADOW, 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 \_\_\_\_\_

Inspector Name: Colby, Lou

Non cropland: Revegetated 80% \_\_\_\_\_

Cropland: perennial forage \_\_\_\_\_

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

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

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

Date \_\_\_\_\_

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

Well Release on Active Location ☒

Multi-Well Location ☒

**Storm Water:**

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment

S/A/V: \_\_\_\_\_ Corrective Date: \_\_\_\_\_

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

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

**Pits:** ☐ NO SURFACE INDICATION OF PIT

**Attached Documents**

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
680100306	Inspection Photo	<a href="http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3729681">http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3729681</a>