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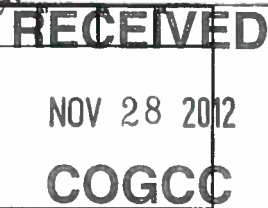
Page 1

FORM  
4  
Rev 12/05

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



## SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 10079	4. Contact Name: Cole Kilstrom	Complete the Attachment Checklist
2. Name of Operator: Antero Resources Piceance Corporation	Phone: 303-357-6709	
3. Address: 1625 17th St STE 300 ATTN: Cole Kilstrom	Fax: 303-357-7315	OP OGCC
City: Denver State: CO Zip: 80202		
5. API Number 05-045-10849	OGCC Facility ID Number 278179	Survey Plat
6. Well/Facility Name: River Ranch	7. Well/Facility Number: A4	Directional Survey
8. Location (Ctr/Ctr, Sec, Twp, Rng, Meridian): NWSW 8 65 92W 6		Surface Equip Diagram
9. County: Garfield	10. Field Name: Mamm Creek	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

cation ID  
336014

## General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface plat is substantive and requires a new permit)													
Change of Surface Footage from Exterior Section Lines:	<table border="1"> <tr> <td></td> <td>FN/FBL</td> <td>FEL/FWL</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		FN/FBL	FEL/FWL									
	FN/FBL	FEL/FWL											
Change of Surface Footage to Exterior Section Lines:													
Change of Bottomhole Footage from Exterior Section Lines:													
Change of Bottomhole Footage to Exterior Section Lines:													
Bottomhole location Ctr/Ctr, Sec, Twp, Rng, Mer													
Latitude	Distance to nearest property line												
Longitude	Distance to nearest bldg, public rd, utility or RR												
Ground Elevation	Distance to nearest lease line												
	Is location in a High Density Area (rule 603b)? Yes/No												
	Distance to nearest well same formation												
	Surface owner consultation date:												
GPS DATA:													
Date of Measurement	PDOP Reading												
	Instrument Operator's Name												
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond												
Formation	Formation Code												
Spacing order number	Unit Acreage												
	Unit configuration												
	Signed surface use agreement attached												
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME												
Effective Date:	From:												
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:												
	Effective Date:												
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS												
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:												
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No												
Date Ready for Inspection:	MIT required if shut in longer than two years. Date of last MIT:												
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)												
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK													
Method used	Cementing tool setting/depth												
Cement volume	Cement top												
Cement bottom	Date												
*submit cbl and cement job summaries													
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.													
Final reclamation will commence on approximately													
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.													

## Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:
<input type="checkbox"/> EAP Waste Disposal	<input type="checkbox"/> Beneficial Reuse of EAP Waste
<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Cole Kilstrom Date: 11/19/12 Email: Kilstr @  
 Print Name: Cole Kilstrom Title: ENV SR 4131  
 COGCC Approved: [Signature] Title: Env. Supv Date: 12/11/12  
 CONDITIONS OF APPROVAL, IF ANY:

See attached comments.

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 10079 API Number: 05-045-10849  
 2. Name of Operator: Antero Resources Piceance Corp. OGCC Facility ID # 278179  
 3. Well/Facility Name: River Ranch Well/Facility Number: A4  
 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW 8 6S 92W 6

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Summary of Corrective Actions and Request for Spill Report Closure:

On November 3, 2011 condensate overflowed from a production tank at Antero's River Ranch A Pad in Garfield County, but was contained within the secondary containment. Antero immediately cut off flow to the production tanks and called a vacuum truck to recover the spilled fluids, which arrived within the hour. The rock within the lined containment area was pressure washed and the pooled oil was removed to the condensate tank by a vacuum truck.

COGCC Form 19 Spill Report # 2221036 stated that Antero would flush the rock within the containment area with hot water and remove any additional oil with a vacuum truck, before returning it to the condensate tank.

In response to the spill, Antero pressure washed the lined corrugated steel containment with hot water. Antero additionally vacuumed all of the oil that was elevated to the surface, and returned this oil to the production tank.

Antero has completed all requested further remediation requested by the COGCC in its Form 19 # 221036. Because all corrective action is complete, Antero respectfully requests final COGCC closure of this matter in accordance with COGCC Rule 909(e).

COA:

Based on review of data presented, it appears that no further action is necessary at this time at this site. However, should future conditions at the site be discovered of contaminant concentrations in soils exceeding COGCC standards or if groundwater is found to be significantly impacted, COGCC may require that further investigation and/or remediation be conducted.

## **PRIOR HISTORY**

**State of Colorado**  
**Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY  
Received  
11/14/2011  
Rifle COGCC

**SPILL/RELEASE REPORT**

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

Spill report taken by:

FACILITY ID:

**OPERATOR INFORMATION**

Name of Operator: Antero Resources Piceance Corporation OGCC Operator No: 10079  
Address: 1625 17th Street, Suite 300  
City: Denver State: CO Zip: 80202  
Contact Person: Gerard G. Alberts

Phone Numbers  
No: 303-357-7341  
Fax: 303-357-7315  
E-Mail: jalberts@anteroresources.com

**DESCRIPTION OF SPILL OR RELEASE**

Date of Incident: <u>11/03/2011</u>	Facility Name & No.: <u>River Ranch A Pad #336014</u>	County: <u>Garfield County</u>
Type of Facility (well, tank battery, flow line, pit): <u>Production Tank Battery at pad</u>	Well Name and Number: <u>River Ranch #A1</u>	QtrQtr: <u>NWSW</u> Section: <u>8</u>
API Number: <u>05-045-10849</u>		Township: <u>T6S</u> Range: <u>92 W</u>
		Meridian: <u>6th</u>
Specify volume spilled and recovered (in bbls) for the following materials:		
Oil spilled: <u>32.34</u>	Oil recov'd: <u>32.34</u>	Water spilled: <u>2.15</u> Water recov'd: <u>2.15</u> Other spilled: _____ Other recov'd: _____
Ground Water impacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Surface Water impacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Contained within berm? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Area and vertical extent of spill: <u>estimated 2910 sq ft</u> x <u>~1 to 12 inches</u>	
Current land use: <u>Agriculture/grazing</u>	Weather conditions: <u>Sunny, no wind</u>	
Soil/geology description: <u>Halaquepts, nearly level</u>		
IF LESS THAN A MILE, report distance IN FEET to nearest.... Surface water: <u>217.98</u> wetlands: <u>2</u> buildings: _____		
Livestock: _____ water wells: <u>4279</u> Depth to shallowest ground water: <u>85</u>		
Cause of spill (e.g., equipment failure, human error, etc.): <u>human error</u> Detailed description of the spill/release incident:		
On November 3, 2011 at approximately 11:20 am on the River Ranch A Pad, located within the 317B external buffer zone, fluids were being transferred from the production separator to the production tanks during normal operations. The production tank was full when the separator continued to push fluid into the oil tank causing the condensate to overflow into the lined, corrugated steel secondary containment surrounding the production tanks. The spill was contained within the secondary containment and a vacuum truck was immediately called.		

**CORRECTIVE ACTION**

Describe immediate response (how stopped, contained and recovered):  
Flow to the production tanks was immediately cut off. Vacuum truck arrived within an hour and recovered all the condensate. Rock within the lined containment area was immediately pressure washed to pool the oil in a centralized area within the lined containment. The oil was subsequently removed via a vac truck and returned to the condensate tank.

Describe any emergency pits constructed:  
N/A

How was the extent of contamination determined:  
Extent of contamination was determined using in field testing using field measurements and Trimble GPS.

Further remediation activities proposed (attach separate sheet if needed):  
Rock within the lined containment area will be flushed with hot water to float oil within the lined containment area. Any additional oil will be removed via a vac truck and returned to the condensate tank.

Describe measures taken to prevent problem from reoccurring:  
Implement "high level alarms" on all production tanks. Installation began November 9, 2011.

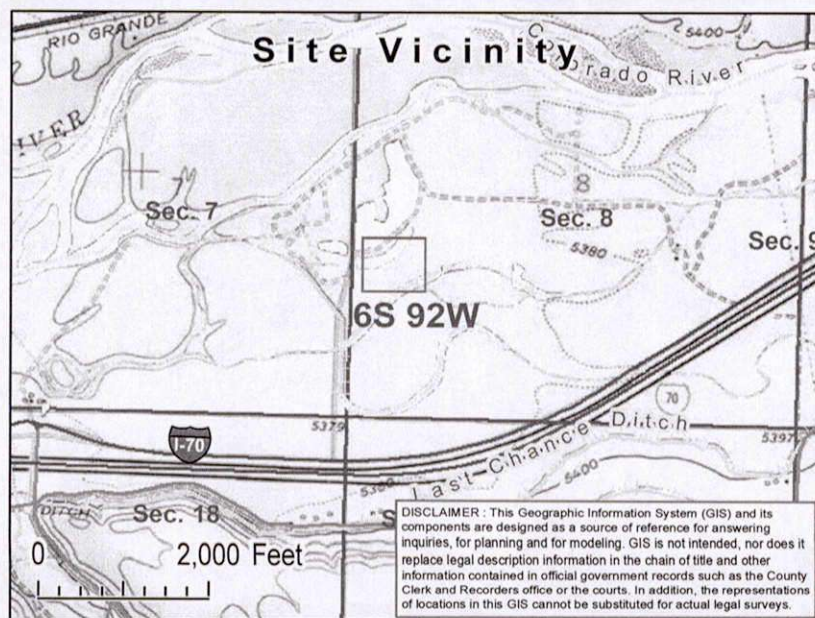
**OTHER NOTIFICATIONS**

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

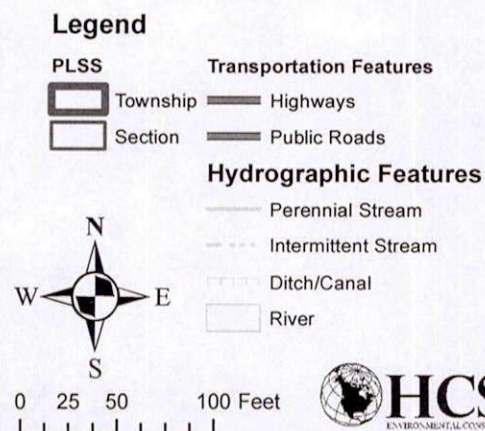
Date	Agency	Contact	Phone	Response
November 3, 2011	CDPHE/ COGCC	Environmental Release/Spill Incident Hotline	1-877-518-5608	Provided information regarding spill, received spill tracking no. 2011- 0818

Spill/Release Tracking No: 2221036





Attachment A--Spill Location Map  
Location: River Ranch A  
*Antero Resources Piceance Corp.*





# ANTERO RESOURCES

SITE ID: 05-045-10849  
 SITE NAME: River Ranch A Pad  
 NWSW SEC. 8 T6S R92W

## LEGEND

- BARBED WIRE FENCE
- EARTHEN BERM
- STEEL CONTAINMENT BERM
- WELL HEAD
- DRAINAGE FLOW DIRECTION
- ACCESS ROAD
- STRAW WATTLE
- SILT FENCE
- ROCK DITCH
- CULVERT
- FRAC TANK
- PAVED ROAD
- EROSION CONTROL BLANKET
- SEEDING AREA
- STRAW BALES
- MIDSTREAM PIPELINE R-O-W
- SITE BOUNDARY/AREA OF DISTURBANCE

IRRIGATION DITCH  
 MARKS SITE  
 BOUNDARY/AREA OF  
 DISTURBANCE ON  
 NORTH SIDE



NOT TO SCALE

RIVER RANCH A PAD

WETLAND

400'

Raised Pad

225'

ENTRY

Separators

Irrigation/Diversion  
 Ditch

ENTRY

C-1

C-2

PW-3

PW-4

Pooling Area

WETLAND

