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State of Colorado Oil and Gas Conservation Commission

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



RECEIVED NOV 28 2012 COGCC

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 2. Name of Operator: Antero Resources Piceance Corporation 3. Address: 1625 17th St STE 300 ATTN: Cole Kilstrom 5. API Number: 05-045-10849 6. Well/Facility Name: River Ranch 7. Well/Facility Number: A4 8. Location (Qtr/Ctr, Sec, Twp, Rng, Meridian): NWSW B 65 92W 6 9. County: Garfield 10. Field Name: Mamm Creek 11. Federal, Indian or State Lease Number: [blank]

Complete the Attachment Checklist

ation ID 336014

General Notice

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

Technical Engineering/Environmental Notice

Notice of Intent Approximate Start Date: [ ] Report of Work Done Date Work Completed: [ ] Details of work must be described in full on Technical Information Page (Page 2 must be submitted.) Intent to Recomplete (submit form 2) [ ] Change Drilling Plans [ ] Gross Interval Changed? [ ] Casing/Cementing Program Change [ ] Request to Vent or Flare [ ] Repair Well [ ] Rule 502 variance requested [ ] Other: [ ] EAP Waste Disposal [ ] Beneficial Reuse of EAP Waste [ ] 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: Kstr @ Print Name: Cole Kilstrom Title: ENV SR 4137 COGCC Approved: [Signature] Title: Env. Supv Date: 12/14/12 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**

FORM  
**19**  
Rev 6/99

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: <u>Antero Resources Piceance Corporation</u> OGCC Operator No: <u>10079</u>	Phone Numbers
Address: <u>1625 17th Street, Suite 300</u>	No: <u>303-357-7341</u>
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>	Fax: <u>303-357-7315</u>
Contact Person: <u>Gerard G. Alberts</u>	E-Mail: <u>jalberts@anteroresources.com</u>

**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>	QtrQtr: <u>NWSW</u> Section: <u>8</u>
Well Name and Number: <u>River Ranch #A1</u>	Township: <u>T6S</u> Range: <u>92 W</u>
API Number: <u>05-045-10849</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).

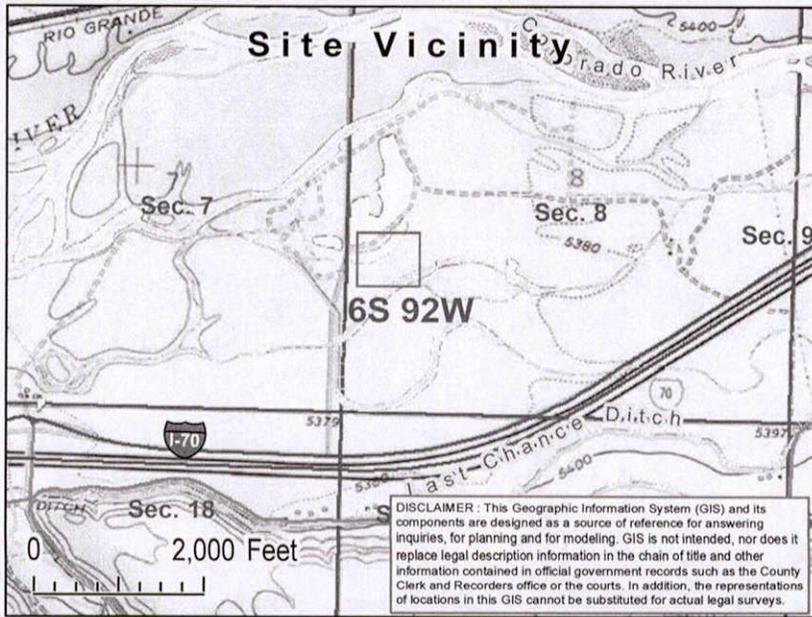
Date	Agency	Contact	Phone	Response
November 3, 2011	CDPHE/ COGCC	Environmental Release/Spill Incident Hotline	1-877-518-5608	Provided information regarding spill, received spill tracking no. 2011-0818

Spill/Release Tracking No: 2221036



Sec. 8

Estimated Impacted Area  
~2,910 Sq. Ft.



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

**Legend**

<b>PLSS</b>	<b>Transportation Features</b>
Township	Highways
Section	Public Roads
	<b>Hydrographic Features</b>
	Perennial Stream
	Intermittent Stream
	Ditch/Canal
	River

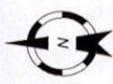
W N E S

0 25 50 100 Feet

**HCSI**  
ENVIRONMENTAL CONSULTANTS



RIVER RANCH A PAD



NOT TO SCALE

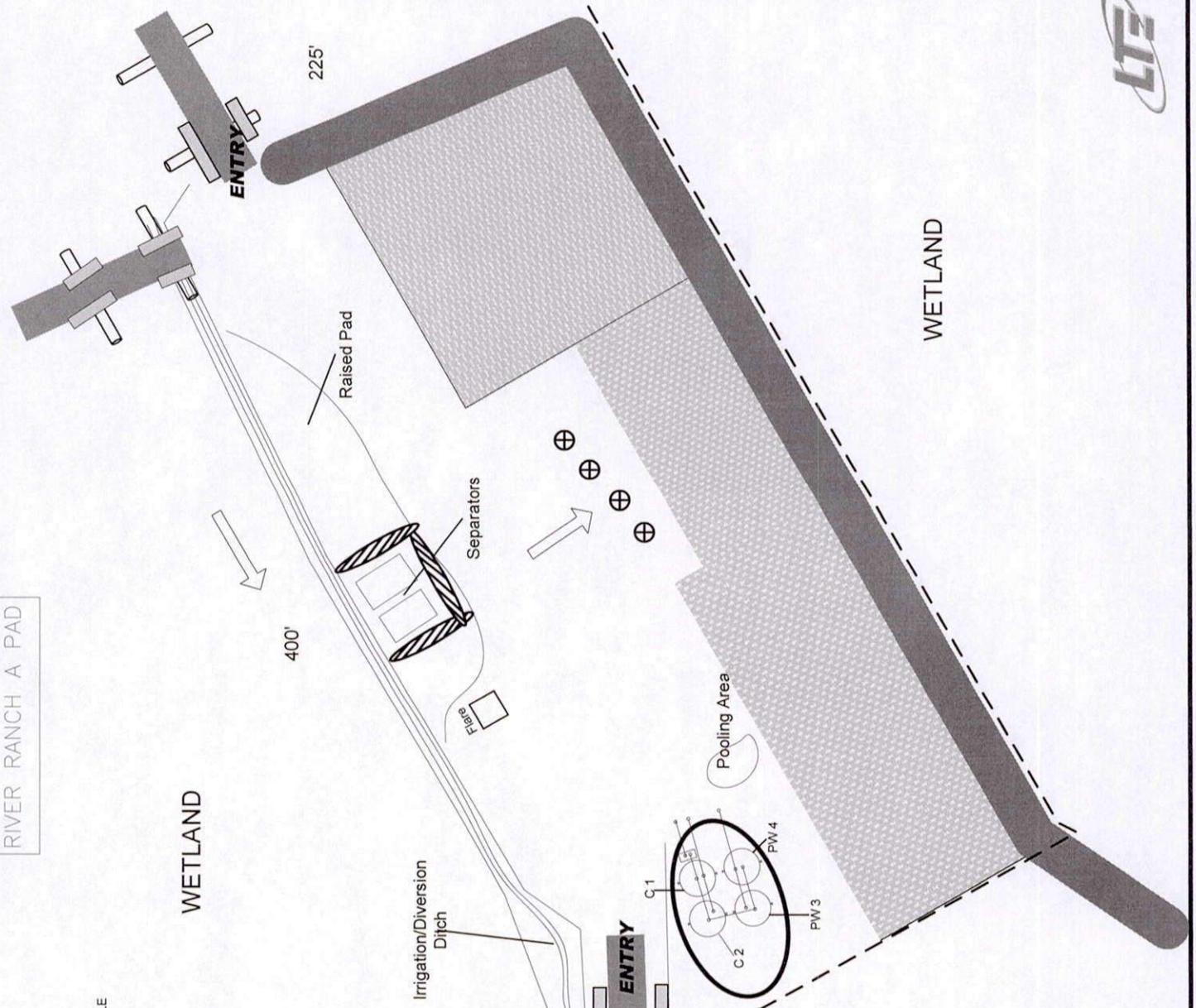
**ANTERO RESOURCES**

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
- ▬ SEEDED AREA
- ⊗ STRAW BALES
- ▬ MIDSTREAM PIPELINE R-O-W
- SITE BOUNDARY/AREA OF DISTURBANCE

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



WETLAND

WETLAND

ENTRY

ENTRY

225'

400'

Raised Pad

Separators

Irrigation/Diversion Ditch

Pooling Area

PW 4

PW 3

C-2

C-1