

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
11/28/2012

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:
335055

OPERATOR INFORMATION

Name of Operator: <u>Antero Resources Piceance Corporation</u> OGCC Operator No: <u>10079</u>	Phone Numbers
Address: <u>1625 17th Street</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>11/18/12</u> Facility Name & No.: <u>Castle Springs Federal U Pad #335055</u>	County: <u>Garfield</u>
Type of Facility (well, tank battery, flow line, pit): <u>Production tank</u>	QtrQtr: <u>SENW</u> Section: <u>7</u>
Well Name and Number: <u>CSF 31B-07-07-91</u>	Township: <u>7S</u> Range: <u>91W</u>
API Number: <u>05-045-11983</u>	Meridian: <u>6th</u>
Specify volume spilled and recovered (in bbls) for the following materials:	
Oil spilled: <u>0.006</u> Oil recov'd: <u>0.0044</u> Water spilled: <u>7 (produced)</u> Water recov'd: <u>5.5</u> Other spilled: <u>NA</u> Other recov'd: <u>NA</u>	
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>~203 sq ft</u> x <u>~2"</u>
Current land use: <u>Federal lands</u>	Weather conditions: <u>35 degrees, cloudy</u>
Soil/geology description: <u>Morval loam, 3 to 12 percent slopes</u>	
IF LESS THAN A MILE, report distance IN FEET to nearest... Surface water: <u>940</u> wetlands: <u> </u> buildings: <u>3528</u>	
Livestock: <u> </u> water wells: <u>3597</u> Depth to shallowest ground water: <u>590</u>	
Cause of spill (e.g., equipment failure, human error, etc.): <u>Human Error</u> Detailed description of the spill/release incident:	
At approximately 9:15 am on November 18, 2012 on the Castle Springs Federal U Pad, a dump valve connecting the separator to production tanks was left open causing an overflow of production water into the steel corrugated secondary containment. All liquid dumps connecting the separator to the production tanks were immediately shut in and hydro-vacuum truck was called to recover the fluids.	

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):
All liquid dump valves connecting the separator to the production tanks were immediately shut. A vacuum truck was immediately dispatched to the location to recover the free standing fluids.

Describe any emergency pits constructed:
None were constructed

How was the extent of contamination determined:
By field measurements and a Trimble GPS unit which complies to COGCC Rule 215.

Further remediation activities proposed (attach separate sheet if needed):
See Attachment B

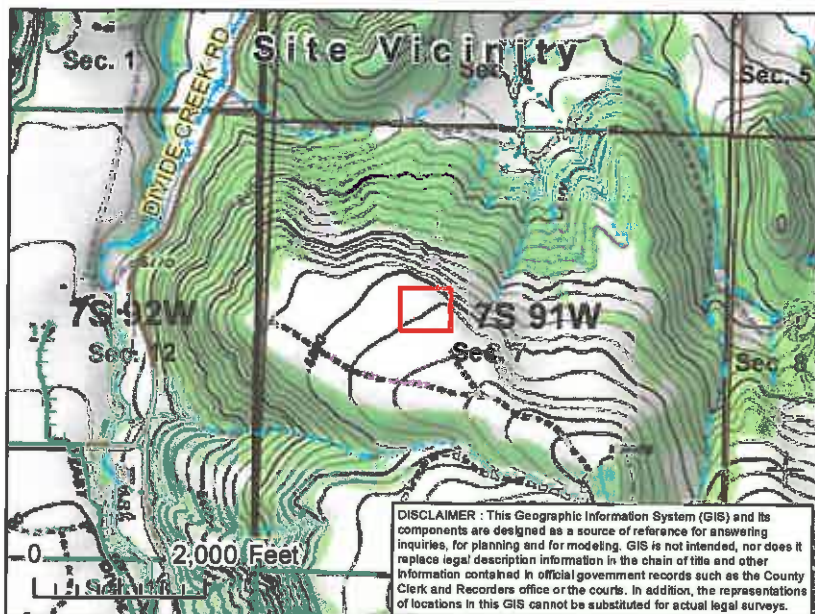
Describe measures taken to prevent problem from reoccurring:
Antero Standard Operating Procedures were not followed during daily operations on this pad when an open valve was left open causing the spill. The contracted pumper overseeing the operations at the time of this spill was terminated by Antero. Standard Operating Procedures will be reviewed with Antero contractors.

OTHER NOTIFICATIONS

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

Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: 2231270



Attachment A--Spill Location Map
Location: Federal U
Antero Resources Piceance Corp.

Legend

- Confirmation Sample
- Hydrographic Features**
 - Perennial Stream
 - - - Intermittent Stream
 - - - Ditch/Canal
- PLSS**
 - Township
 - Section
- Highways
- Public Roads



0 50 100 Feet



Attachment B: Further Remediation Activities Proposed

The impacted area inside the corrugated metal secondary containment was field screened after the free standing liquids had been removed. Field screening results indicated hydrocarbon contaminant levels exceed Table 910-1 standards. Antero Resources' proposed remediation activities on the Castle Springs U Pad are to excavate the impacted soils and dispose of the impacted material at a properly permitted facility.

Remediation will involve removing one side of the metal corrugated containment allowing access to the impacted gravels and soil inside the containment structure. The impacted gravels and soils will be excavated until the underlying soil is in compliance with COGCC Table 910-1 standards. Confirmation soil samples will be collected and sent to an accredited laboratory to confirm the remaining soils in the remediated area are below Table 910-1 standards. The confirmatory soil sample results will be sent to the COGCC via Sundry Form 4.

The impacted soil has been profiled for disposal at the ECDC facility located in Carbon County Utah. Upon receipt of the analytical results, the remediated area, if below Table 9120-1 standards, will be backfilled with clean gravels. The containment structure will then be put back in place.