

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  
2. Name of Operator: Antero Resources Piceance Corporation  
3. Address: 1625 17th St STE 300 ATTN: Cole Kilstrom  
City: Denver State: CO Zip: 80202 Phone: 303-357-6709 Fax: 303-357-7315  
5. API Number: 05-045-13231 OGCC Facility ID Number: 335542  
6. Well/Facility Name: Valley Farms E Pad 7. Well/Facility Number: E1  
8. Location (Qtr/Sec, Twp, Rng, Meridian): SENE 15 6S 92W 6  
9. County: Garfield 10. Field Name: Mamm Creek  
11. Federal, Indian or State Lease Number: [blank]

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)  
Change of Surface Footage from Exterior Section Lines: [ ] FNL/FSL [ ] 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/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: From: [ ] To: [ ] Effective Date: [ ] NUMBER [ ]  
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 (5 mos from date casing set) [ ]  
SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK: \*submit cbi and cement job summaries  
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) [ ] Request to Vent or Flare [ ] E&P Waste Disposal [ ]  
Change Drilling Plans [ ] Repair Well [ ] Beneficial Reuse of E&P Waste [ ]  
Gross Interval Changed? [ ] Rule 502 variance requested [ ] Status Update/Change of Remediation Plans [X]  
Casing/Cementing Program Change [ ] Other: [ ] 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.

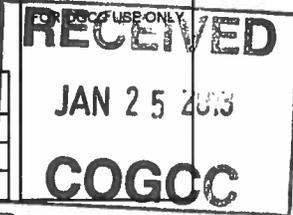
Signed: Cole Kilstrom Date: 1/25/2013 Email: ckilstrom@anteroresources.com  
Print Name: Cole Kilstrom Title: ENV Specialist

COGCC Approved: Alex Fischer Title: FOR Date: 01/29/2013  
CONDITIONS OF APPROVAL IF ANY

closed  
OK ✓

Alex Fischer  
Supervisor  
Western Region

TECHNICAL INFORMATION PAGE



1. OGCC Operator Number: 10079 API Number: 05-045-13231  
2. Name of Operator: Antero Resources Piceance Corp. OGCC Facility ID # 335534  
3. Well/Facility Name: Valley Farms E Pad Well/Facility Number: E1  
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE 15 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:

This Form 4 is being submitted in response to the COGCC's Conditions of Approval for closure of Spill Report # 1942269, received from Alex Fischer on December 18, 2012. Per the COAs, truck tickets, confirmation sampling and a map illustrating the location of sampling are attached.

On September 8, 2008, during frac tank transfer operations, a tank overflowed spilling produced water with some condensate present as well. Antero immediately halted fluid transfers to the overflowing tank. While the spill was contained on the pad due to the stormwater controls already in place, much of the fluid was not recoverable because it ran behind and underneath the tank battery.

COGCC Form 19 Spill Report # 1942269 stated that Antero would commence remediation once the frac tanks were removed from the location. The impacted area was to be remediated to COGCC standards for sensitive areas and the soil was to be stockpiled and then profiled for disposal at the West Garfield County Landfill.

Antero began remediation of the pad on September 14, 2008. Antero visually determined the aerial and vertical extent of the spill. The impacted soils were temporarily stockpiled on the pad, before being disposed of at the West Garfield County Landfill on October 21, 2008 and November 24, 2008 as indicated on the attached truck tickets included with this submittal. Confirmation sampling was conducted on the site by HRL Compliance Solutions on September 25, 2008. A spill location sampling map from this sampling event was provided by HRL and is also included with this submittal. The results indicate that the site is compliant with COGCC Table 910-1 standards.

Because Antero has remediated the site, removed all contaminated soils, and demonstrated site compliance with Table 910-1 standards, Antero respectfully requests final COGCC closure of Spill Report # 1942269 in accordance with COGCC Rule 909 (e).

Based on review of information presented on data presented it appears that no further action is necessary at this time, and COGCC approves the closure request. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be significantly impacted, then further investigation and/or remediation activities may be required at the site.







September 30, 2008

Mark Mumby  
HRL Compliance Solutions  
744 Horizon Ct. #140  
Grand Junction, CO 81506

Lab Work Order: 08-7338  
Client Project ID: Antero Rources Valley Farm

Dear Mark Mumby:

Enclosed are the analytical results for the samples shown in the Laboratory Work Order Summary. The invoice is included with this report or has been mailed to another party as indicated on the chain of custody.

The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples one month from the date of this letter. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,

A handwritten signature in black ink that reads "Carl Smits".

Kaprie Hollman/Carl Smits  
Quality Assurance  
khollman@evergreenanalytical.com

# WORK ORDER Summary

# Evergreen Analytical, Inc.

08-7338

Rpt To: Mark Mumby

Fax To: Mark Mumby

FX: (970) 243-3280

HRL Compliance Solutions

Email To: mmumby@hrlcomp.com

744 Horizon Ct. #140

Grand Junction, CO 81506

(970) 243-3271

9/25/2008 11:51:19 AM

Client Project ID: Antero Rources Valley Farm Pad E

QC Level: Level I

Comments:

Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Test Code	Test Name	Hold	MS	Date Due	Hold Time
08-7338-01A	EXC	Soil	9/22/08 1015	9/25/08	TVH_S *	8015: TVH-Gasoline	<input type="checkbox"/>	<input type="checkbox"/>	9/30/08	10/06/08
08-7338-01B	EXC	Soil	9/22/08 1015	9/25/08	TEH_S *	8015: TEH-Diesel	<input type="checkbox"/>	<input type="checkbox"/>	9/30/08	10/06/08

Definitions: \* - Test Code has a Select List



Lab Order: 08-7338

Client Project ID Antero Rources Valley Farm Pad E

**CASE NARRATIVE**

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SAMPLE RECEIVING

Custody seals were present and intact.

The temperature of the sample(s) upon arrival was 2.0 °C.

Sample(s) were received in good condition, in the proper container, and within holding times.

VOC sample(s) were received with no headspace present. JD

QUALITY ASSURANCE (QA)

Analyses performed on samples in this work order by EAL meet the requirements of the EAL Quality Assurance Program unless otherwise explained. Analyses of RCRA samples meet the requirements of NELAC and Utah Rule R444-14 unless otherwise explained. TP

CLIENT SERVICES

There are no anomalies to report. PM

GAS CHROMATOGRAPHY

Method TVH\_S: The surrogate recovery for the laboratory control spike (LCS) is above the QC limit; all spiked analyte recoveries are within QC limits, so the sample result is not affected. There are no other anomalies to report. VM

Method TEH\_S: There are no anomalies to report. MDS

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# Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

<b>Client Sample ID:</b> EXC	<b>Lab Work Order:</b> 08-7338
<b>Client Project ID:</b> Antero Rources Valley Farm Pad	<b>Lab Sample ID:</b> 08-7338-01A
<b>Date Collected:</b> 9/22/08	<b>Sample Matrix:</b> Soil
<b>Date Received:</b> 9/25/08	

## TOTAL VOLATILE HYDROCARBONS

**Method:** SW8015B MOD

**Prep Method:** SW5035

<b>Date Prepared:</b> 9/25/08	<b>Lab File ID:</b> TVB20925\013F	<b>Dilution Factor:</b> 5
<b>Date Analyzed:</b> 9/25/08	<b>Method Blank:</b> MB2092508	

Analytes	CAS Number	Result	LQL	Units
TVH-Gasoline	86290-81-5	U	1.0	mg/Kg
Surr: 1,2,4-Trichlorobenzene (S)	120-82-1	116	<b>QC Limits:</b> 60-140	%REC

VM

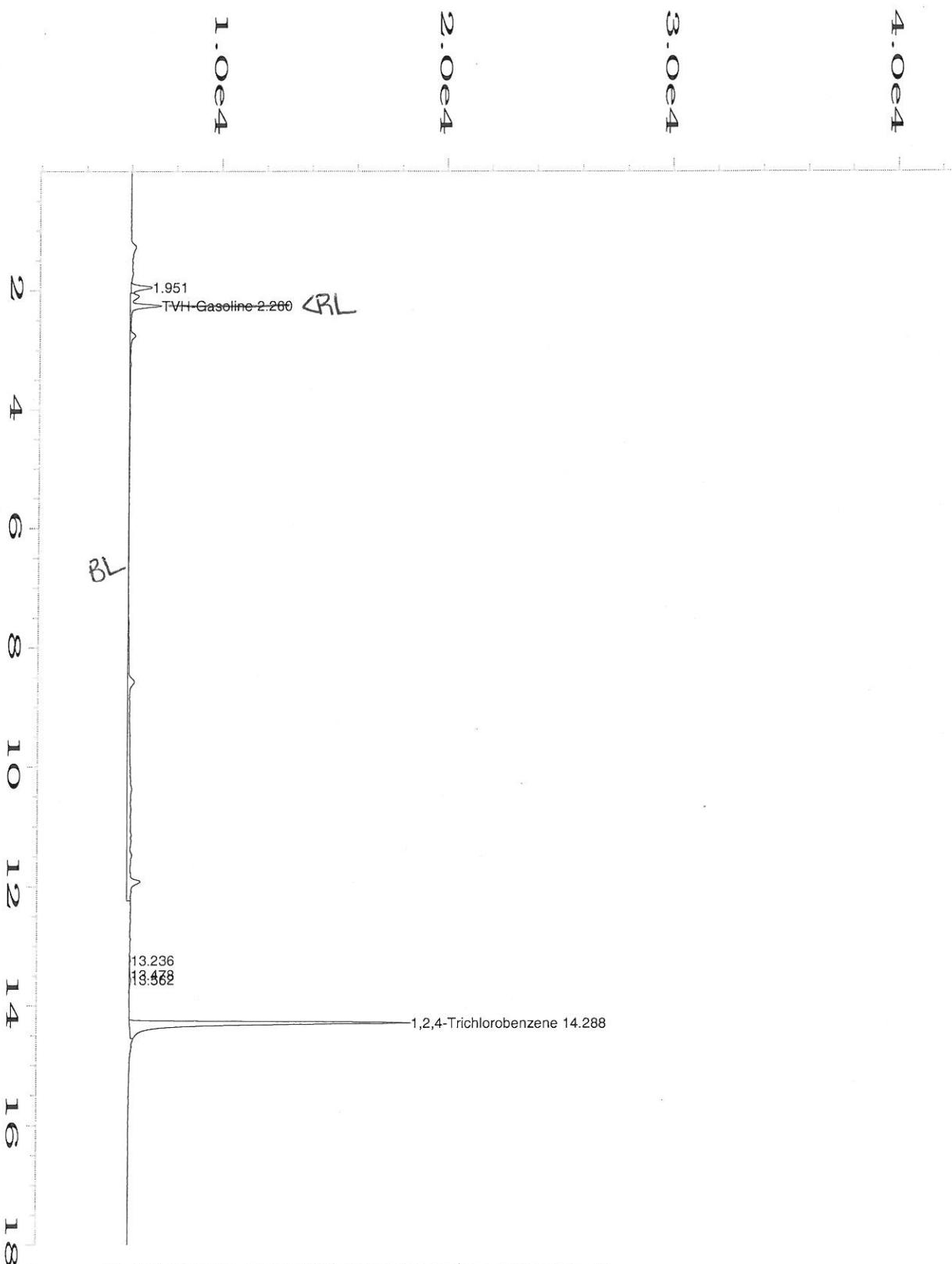
Analyst

Approved

**Notes:** Total Xylenes consist of three isomers, two of which co-elute. The Xylene RL is for a single peak. Confirmation analysis was not performed.

**Qualifiers:** B - Analyte detected in the associated Method Blank, value not subtracted from result  
 E - Extrapolated value. Value exceeds calibration range  
 H - Sample analysis exceeded analytical holding time  
 J - Indicates an estimated value when the compound is detected, but is below the LQL  
 S - Spike Recovery outside accepted limits  
 U - Compound analyzed for but not detected  
 X - See case narrative  
 \* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

**Definitions:** LQL - Lower Quantitation Limit  
 Surr - Surrogate



user modified

Data File Name : C:\HPCHEM\2\DATA\TVB20925\013F0101.D  
 Operator : Virginia Meyer  
 Instrument : TVHBTEX2  
 Sample Name : 08-7338-01A 5x  
 Run Time Bar Code:  
 Acquired on : 25 Sep 08 07:44 PM  
 Report Created on: 26 Sep 08 10:37 AM  
 Last Recalib on : 18 SEP 08 02:55 PM  
 Multiplier : 1

Page Number : 1  
 Vial Number : 13  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: TW20916.MTH  
 Analysis Method : TW20916.MTH  
 Sample Amount : 0  
 ISTD Amount :

VM 9.26.08

Evergreen Analytical, Inc.  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Lab Order: 08-7338  
Client Project ID: Antero Rources Valley Farm Pad E  
Matrix: Soil  
Date Received: 9/25/08  
Date Prepared: 9/29/08  
Prep Batch ID: 16834  
Units: mg/Kg

Total Extractable Hydrocarbons  
Diesel Fuel (No. 2)

Prep Method: SW3550B

Method: SW8015B Mod

Lab ID	Client Sample ID	File ID	Date Collected	Date Analyzed	DF	Surr REC	Sample Results	LQL
08-7338-01B	EXC	FID60929\059R	9/22/08	9/29/08	1	48%	210	14
Surrogate QC Limits 39-130 %REC			Surr: TBB					

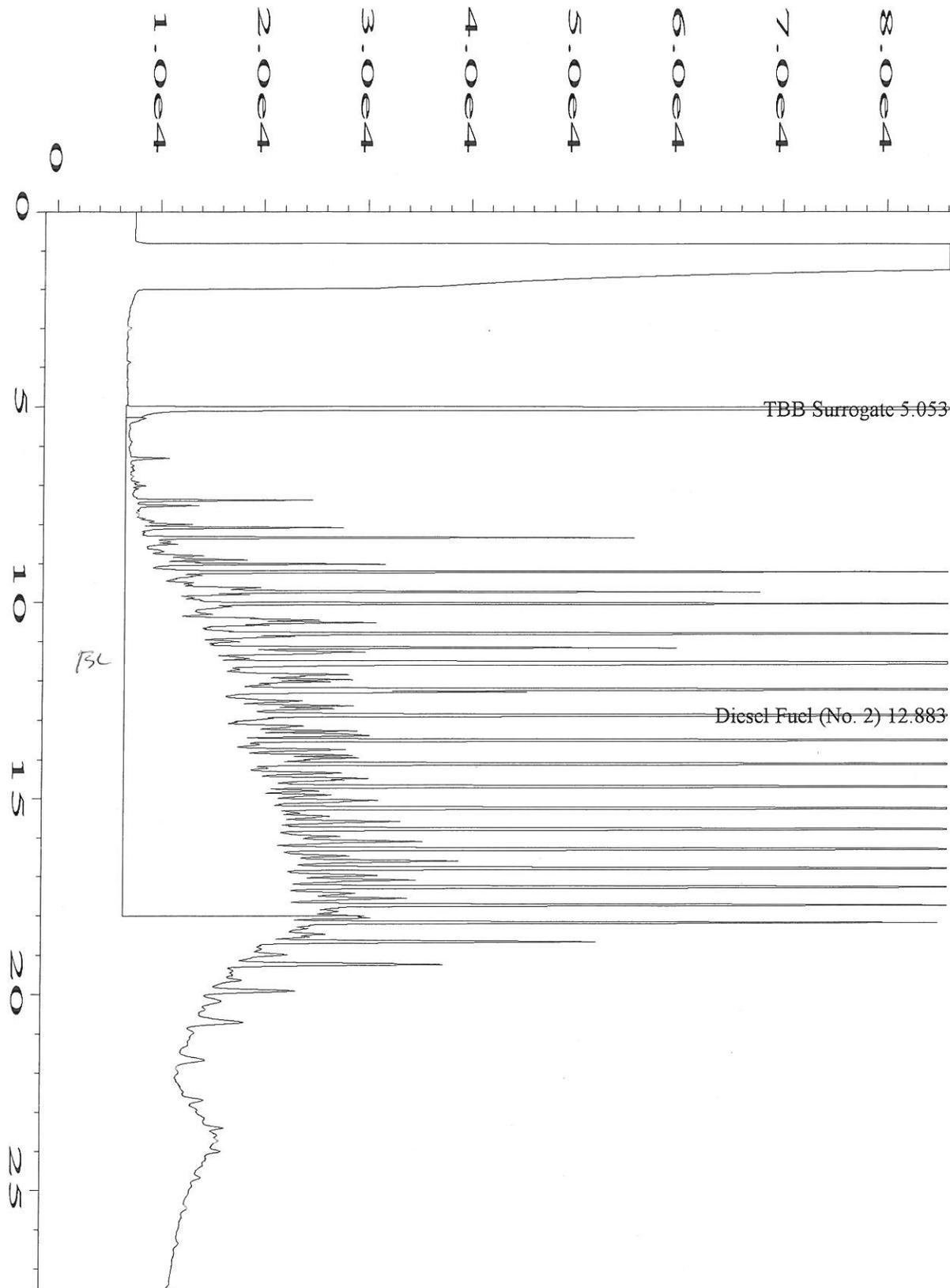
*MMS*  
Analyst

*[Signature]*  
Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Sample analysis exceeded analytical holding time  
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S - Spike Recovery outside accepted limits  
U - Compound analyzed for but not detected  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Definitions: DF - Dilution Factor  
LQL - Lower Quantitation Limit  
Surr - Surrogate

user modified



Data File Name	: C:\HPCHEM\1\DATA\FID60929\059R0101.D	Page Number	: 1
Operator	: Marcus Stephenson	Vial Number	: 59
Instrument	: FID6	Injection Number	: 1
Sample Name	: 08-7338-01B	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	DUALFID.MTH
Acquired on	: 29 Sep 08 07:03 PM	Analysis Method	: DR0417.MTH
Report Created on:	30 Sep 08 08:39 AM	Sample Amount	: 0
Last Recalib on	: 18 APR 08 10:01 AM	ISTD Amount	:
Multiplier	: 1		

1x MS 4-30-08

# QUALITY ASSURANCE REPORTS

METHOD BLANKS (MB)

LABORATORY CONTROL SPIKES (LCS)

MATRIX SPIKES (MS/MSD)\*

DUPLICATES (DUP)\*

\* For Metals or Wet Chemistry analyses: only included if requested.

Work Order: 08-7338  
Client Project ID: Antero Rources Valley Farm Pad E

ANALYTICAL QC SUMMARY REPORT

BatchID: R42310

Sample ID: MB2092508	Sample Type: MBLK	TestCode: TVH_S	Run ID: TVHBTX2_080925B	Prep Date: 9/25/08	Units: mg/Kg
Batch ID: R42310	TestNo: SW8015B Mo	FileID: TVB20925\003F	Analysis Date: 9/25/08	SeqNo: 746200	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

TVH-Gasoline	U	1.0	500	0	137	60	140	0	0
Surr: 1,2,4-Trichlorobenzene (S)	682.8	0	500	0	137	60	140	0	0

Sample ID: LCSS2092508	Sample Type: LCS	TestCode: TVH_S	Run ID: TVHBTX2_080925B	Prep Date: 9/25/08	Units: mg/Kg
Batch ID: R42310	TestNo: SW8015B Mo	FileID: TVB20925\004F	Analysis Date: 9/25/08	SeqNo: 746201	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

TVH-Gasoline	9.2	1.0	11	0	83.6	70	130	0	0
Surr: 1,2,4-Trichlorobenzene (S)	895.1	0	500	0	179	60	140	0	0

Sample ID: 08-7294-01DM5	Sample Type: MS	TestCode: TVH_S	Run ID: TVHBTX2_080925B	Prep Date: 9/25/08	Units: mg/Kg
Batch ID: R42310	TestNo: SW8015B Mo	FileID: TVB20925\008F	Analysis Date: 9/25/08	SeqNo: 746204	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

TVH-Gasoline	6.79	1.0	11	0	61.7	62	130	0	0
Surr: 1,2,4-Trichlorobenzene (S)	459.6	0	500	0	91.9	60	140	0	0

Sample ID: 08-7294-01DM5D	Sample Type: MSD	TestCode: TVH_S	Run ID: TVHBTX2_080925B	Prep Date: 9/25/08	Units: mg/Kg
Batch ID: R42310	TestNo: SW8015B Mo	FileID: TVB20925\009F	Analysis Date: 9/25/08	SeqNo: 746205	
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

TVH-Gasoline	6.955	1.0	11	0	63.2	62	130	6.79	2.40
Surr: 1,2,4-Trichlorobenzene (S)	443.2	0	500	0	88.6	60	140	0	0

**Qualifiers:**  
 U - Not detected at or above the Reporting Limit  
 J - Analyte detected below quantitation limits  
 S - Spike Recovery outside acceptance limits  
 E - Extrapolated value, value exceeds calibration range  
 R - RPD outside acceptance limits  
 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative

Work Order: 08-7338  
 Client Project ID: Artero Rources Valley Farm Pad E

**ANALYTICAL QC SUMMARY REPORT**  
 BatchID: 16834

Sample ID: MB-16834	SampType: MBLK	TestCode: TEH_S	Run ID: FID6_080929A	Prep Date: 9/29/08	Units: mg/Kg
	Batch ID: 16834	TestNo: SW8015B Mo	FileID: FID609291053R	Analysis Date: 9/29/08	SeqNo: 746918
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Fuel (No. 2)	U	14	66.67	0	60.9	39	130	130	0	0
Surr: TBB	40.59	0	66.67	0	60.9	39	130	130	0	0

Sample ID: LCS-16834	SampType: LCS	TestCode: TEH_S	Run ID: FID6_080929A	Prep Date: 9/29/08	Units: mg/Kg
	Batch ID: 16834	TestNo: SW8015B Mo	FileID: FID609291054R	Analysis Date: 9/29/08	SeqNo: 746919
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Fuel (No. 2)	568.6	14	66.7	0	85.3	70	130	130	0	0
Surr: TBB	43.05	0	66.67	0	64.6	42	130	130	0	0

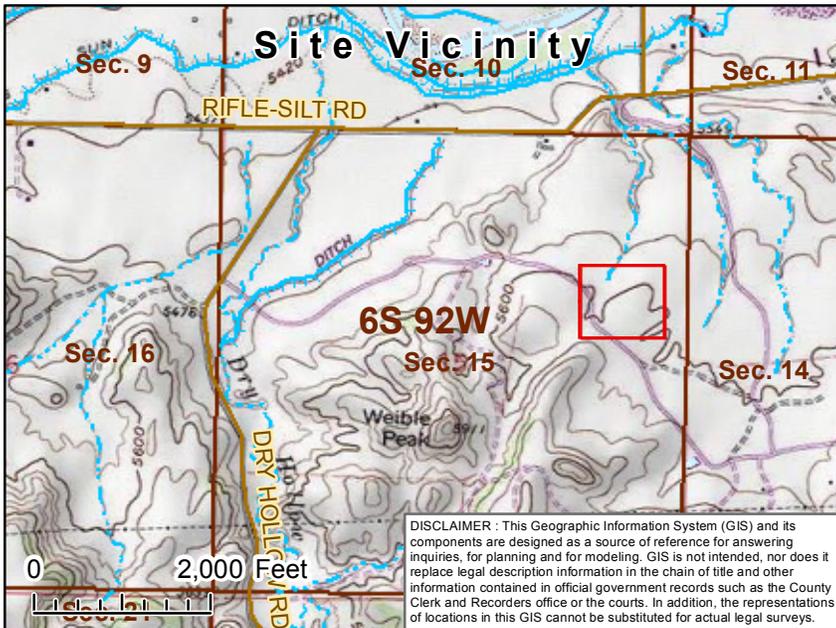
Sample ID: 08-7334-01BMS	SampType: MS	TestCode: TEH_S	Run ID: FID6_080929A	Prep Date: 9/29/08	Units: mg/Kg
	Batch ID: 16834	TestNo: SW8015B Mo	FileID: FID609291056R	Analysis Date: 9/29/08	SeqNo: 746921
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Fuel (No. 2)	541.2	14	66.4	0	81.2	70	130	130	0	0
Surr: TBB	36.06	0	66.64	0	54.1	39	130	130	0	0

Sample ID: 08-7334-01BMSD	SampType: MSD	TestCode: TEH_S	Run ID: FID6_080929A	Prep Date: 9/29/08	Units: mg/Kg
	Batch ID: 16834	TestNo: SW8015B Mo	FileID: FID609291057R	Analysis Date: 9/29/08	SeqNo: 746922
Analyte	Result	LQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Fuel (No. 2)	587.7	14	66.34	0	88.6	70	130	130	541.2	8.25	30
Surr: TBB	38.08	0	66.34	0	57.4	39	130	130	0	0	0

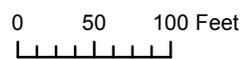
**Qualifiers:**  
 U - Not detected at or above the Reporting Limit  
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 E - Extrapolated value, value exceeds calibration range.  
 R - RPD outside acceptance limits  
 B - Analyte detected in the associated Method Blank  
 H - Prep or analytical holding time exceeded  
 X - See case narrative



**Attachment A--Spill Location Map**  
**Location: Valley Farms E**  
*Antero Resources Piceance Corp.*

**Legend**

- Sample Point
- Affected Area
- Gas Well Head
- PLSS
  - ▭ Township
  - ▭ Section
  - ▬ Highways
  - ▬ Public Roads
- Hydrographic Features**
  - ▬ Perennial Stream
  - ▬ Intermittent Stream
  - ▬ Ditch/Canal



## **PRIOR HISTORY**



Form 19 # 1942269

02231318

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



RECEIVED  
DEC 3 - 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	Complete the Attachment Checklist
2. Name of Operator: Antero Resources Picesance Corporation	Phone: 303-357-6709	
3. Address: 1625 17th St STE 300 ATTN: Cole Kilstrom	City: Denver State: CO Zip: 80202	OP OGCC
5. API Number: 05-045-13231	OGCC Facility ID Number: 288403	
6. Well/Facility Name: Valley Farms E Pad	7. Well/Facility Number: E1	Survey Plat
8. Location (Qtr/Ctr, Sec, Twp, Rng, Meridian): SENE 15 6S 92W 6		Directional Survey
9. County: Garfield	10. Field Name: Mamm Creek	Surface Eqmpt Diagram
11. Federal, Indian or State Lease Number:		Technical Info Page
		Other

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:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	Formation Code	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 (if rose from date casing set)

SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK  
 \*submit cbl and cement job summaries

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.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> EAP Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of EAP Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input checked="" type="checkbox"/> Status Update/Change of Remediation Plans for Spills and Releases
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	

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: 11/24/12 Email: CKilstrom@anteroresources.com  
 Print Name: Cole Kilstrom Title: ENV Specialist

COGCC Approved: [Signature] Title: Env. Sup. Date: 12/18/12

CONDITIONS OF APPROVAL, IF ANY:

See attached COA's

ONE

TECHNICAL INFORMATION PAGE



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1. OGCC Operator Number: 10079	API Number: 05-045-13231
2. Name of Operator: Antero Resources Piceance Corp.	OGCC Facility ID #: 288403
3. Well/Facility Name: Valley Farms E Pad	Well/Facility Number: E1
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE 15 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 September 8, 2008, during frac tank transfer operations, a tank overflowed spilling produced water with some condensate present as well. Antero immediately halted fluid transfers to the overflowing tank. While the spill was contained on the pad due to the stormwater controls already in place, much of the fluid was not recoverable because it ran behind and underneath the tank battery.

COGCC Form 19 Spill Report # 1942269 stated that Antero would commence remediation once the frac tanks were removed from the location. The impacted area was to be remediated to COGCC standards for sensitive areas and the soil was to be stockpiled and then profiled for disposal at the West Garfield County Landfill.

Antero's began remediation of the pad on September 14, 2008. The impacted soils were temporarily stockpiled on the pad, before being sent to the West Garfield County Landfill in increments between October 10, 2008 and November 24, 2008. All contaminated soil has been removed from the pad.

Because Antero has remediated the site and removed all contaminated soils, Antero respectfully requests final COGCC closure of Spill Report # 1942269 in accordance with COGCC Rule 909(e).

*This spill has not been closed.*

*See Attached Condition of Approval.*

*AP 12/18/12*

**CONDITIONS OF APPROVAL**

**Antero Resources Piceance Corporation**

**Location ID 335542; Spill Tracking No. 1942269**

**Valley Farms E Pad E1; API 05-045-13231**

**SENE SEC 15, T6S, R92W**

**Garfield County, Colorado**

*NOTE 12/18/12*

Antero states that remediation began on September 14, 2008.

Provide information for determining aerial extent and vertical extent of impacted area and how this area characterized and delineated.

Provide locations and analytical data of confirmation sampling as it pertains to the remediation of this spill.

Provide locations and analytical data of background samples that were collected.

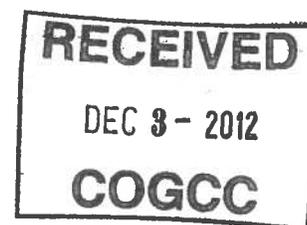
Provide volume of impacted material and haul tickets for the material being disposed of at the West Garfield County Landfill.

THIS SPILL HAS NOT BEEN CLOSED

**RECEIVED**  
DEC 3 - 2012  
**COGCC**

## **PRIOR HISTORY**

The electronic file for the original Form 19 is available on COGCC's database, but is in a file format that we could not view. Attached hereto is the COGIS view of the Form 19 from the COGCC database.





**COGIS - Spill Reports**

**Form 19/19A**

Doc

Date Rec'd: 9/8/2008 Report taken by: BOB CHESSON  
DocNum: 1942269 API number: 05-045 -13231 Facility ID: 288403

**Operator Information**

Operator: ANTERO RESOURCES PICEANCE CORPORATION Oper. No. 10079  
Address: 1625 17TH ST STE 300 DENVER , CO 80202  
Phone: (303 )357-7341 Fax: (303 )357-7315

**Operator Contact:**

**Description of Spill:**

Date of Incident: 9/8/2008  
Type of Facility: WELL  
Well Name/No. VALLEY FARMS E1 Fac. Name/No.  
County Name: GARFIELD  
qtrqtr: SENE section: 15 township: 6S range: 92W meridian: 6

**Volumes spilled and recovered (bbls)**

Oil spilled: 12 Recvrd: 0  
Water spilled: 38 Recvrd: 0  
Other spilled: Recvrd:  
GW Impact? N Surface water impact? N Contained within berm? Y

Area and vertical extent of spill: - X -

Current land use: OPEN RANGE/ AGRICULTURE

Weather conditions: CLOUDY MILD SHOWERS

Soil/Geology description POTTS LOAM TO CLAYEY LOAM AT DEPTH

Distance in feet to nearest surface water: 3960

Depth to shallowest GW: 115

Wetlands: Buildings: 1000  
Livestock: Water Wells: 4000

**Cause of spill:**

HUMAN ERROR

**Immediate Response:**

FLUIDS TRANSFERS TO THE H995 TANK WERE HALTED. THE ENTIRE SPILL WAS CONTAINED ON THE WELL PAD DUE TOO STORM WATER CONTOLS ALREADY IN PLACE . A MOJORITY OF THE SPILL RAN UNDERNEATH AND BEHIND THE FRAC TANK BATTERY ON THE PAD SO RECOVERY OF THE FLUIDS WAS NOT POSSIBLE.

**Emergency Pits:**

NONE

**How extent determined:**

FEILD MEASUREMENT, VISUAL

**Further Remediation**

REMEDIAION IS SLATED TO COMMENCE ONCE THE FRAC TANKS ARE REMOVED FROM THE LOCATION. THE IMPACTED AREA WILL BE REMEDIATED TO A LEVEL BELOW COGCC GUIDLINES FOR SENSITIVE AREAS. THE IMPACTED SOIL THAT IS REMEDIATED WILL BE STOCKPILED ON THE LOCATIONS IN A LINED BERMED CONTAINMENT AREA. THE SOIL WILL THEN BE PROFILED FOR DISPOSAL AT THE WEST GARFIELD COUNTY LANDFILL

**Prevent Problem:**

THE STANDARD OPERATING PROCEDURE (SOP) FOR FILLING FRAC TANKS WILL BE UPDATED AND WATER HANDLING PEOPLE WILL BE TRAINED ON THE REVISED SOP.

**Detailed Description:**

**Other Notifications**

Date	Agency	Contact	Response
9/10/2008	COGCC	BOB CHESSON	VERBAL NOTIFICATION OF THE SPILL

**Field Visit/Follow Up**

Name	Phone	Date
No Field Visit data found.		

Wednesday, November 14, 2012

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# COGIS - Spill Reports

## Form 19/19A



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### Emergency Pits:

NONE

### How extent determined:

FEILD MEASUREMENT, VISUAL

### Further Remediation

REMEDICATION IS SLATED TO COMMENCE ONCE THE FRAC TANKS ARE REMOVED FROM THE LOCATION. THE IMPACTED AREA WILL BE REMEDIATED TO A LEVEL BELOW COGCC GUIDLINES FOR SENSITIVE AREAS. THE IMPACTED SOIL THAT IS REMEDIATED WILL BE STOCKPILED ON THE LOCATIONS IN A LINED BERMED CONTAINMENT AREA. THE SOIL WILL THEN BE PROFILED FOR DISPOSAL AT THE WEST GARFIELD COUNTY LANDFILL

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**Detailed Description:**

**Other Notifications**

<b>Date</b>	<b>Agency</b>	<b>Contact</b>	<b>Response</b>
9/10/2008	COGCC	<i>BOB CHESSON</i>	VERBAL NOTIFICATION OF THE SPILL

**Field Visit/Follow Up**

<b>Name</b>	<b>Phone</b>	<b>Date</b>
No Field Visit data found.		

Wednesday, November 14, 2012