

FORM
4
Rev 12/05

State of Colorado

02577499

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.)

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COGCC/Rifle Office

1. OGCC Operator Number: 10079	4. Contact Name Hannah Knopping	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Antero Resources Piceance Corporation	Phone: (303) 357-6412	
3. Address: 1625 17th Street City: Denver State: CO Zip: 80202	Fax: (303) 357-7315	
5. API Number 05-045-19924-00	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name: Diemoz	7. Well/Facility Number A3	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWSW, Section 36, T5S, R92W, 6th P.M.		Surface Eqpm Diagram
9. County: Garfield	10. Field Name: Wildcat	Technical Info Page
11. Federal, Indian or State Lease Number:		Other Gas Analysis

General Notice

<input type="checkbox"/> 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: 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 Qtr/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: _____	FNL/FSL FEL/FWL attach directional survey
GPS DATA: Date of Measurement _____ PDOP Reading _____ Instrument Operator's Name _____	
<input type="checkbox"/> CHANGE SPACING UNIT Formation _____ Formation Code _____ Spacing order number _____ Unit Acreage _____ Unit configuration _____	<input type="checkbox"/> Remove from surface bond Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME From: _____ To: _____ Effective Date: _____
<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No 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/perf 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 Approximate Start Date: _____	<input type="checkbox"/> 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"/> Change Drilling Plans <input type="checkbox"/> Gross Interval Changed? <input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Request to Vent or Flare <input type="checkbox"/> Repair Well <input type="checkbox"/> Rule 502 variance requested <input checked="" type="checkbox"/> Other: Analytical Results
<input type="checkbox"/> E&P Waste Disposal <input type="checkbox"/> Beneficial Reuse of E&P Waste <input 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: Hannah Knopping
Print Name: Hannah Knopping

Date: 12/7/2010 Email: hknopping@anteroresources.com

Title: Permit Representative

COGCC Approved: Ken J. Kij
CONDITIONS OF APPROVAL, IF ANY:

Title: EIT III

Date: DEC 07 2010



TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

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1. OGCC Operator Number: 10079 API Number: 05-045-19924-00
2. Name of Operator: Antero Resources Piceance Corp OGCC Facility ID #
3. Well/Facility Name: Diemoz Well/Facility Number: A3
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW, Section 36, T5S, R92W, 6th P.M.

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.

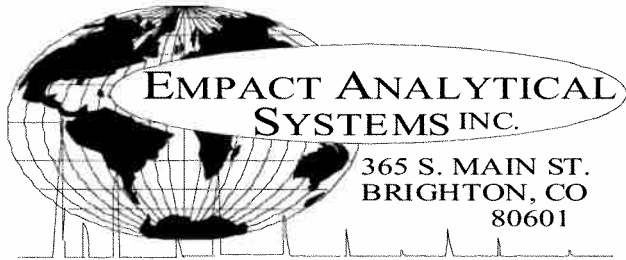
DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Antero Resources Corporation, as a follow up to the sundry dated 11/12/2010, collected a gas sample from the production casing-surface casing annulus of the Diemoz A3 well and analyzed the sample for composition (C1 through C12) and stable isotopes of methane, ethane, and propane in order to confirm whether or not the source of the elevated bradenhead pressure is shallow Wasatch gas.

Antero provided COGCC Engineer, Kevin King, with a copy of the high resolution bond log which verified that the well has good cement coverage from TD to 2400'. We received verbal approval from Kevin King on 12/1/2010 to proceed with completion operations. Antero agreed that we would monitor bradenhead pressures during completion operations per Rule 341 and give notice to COGCC if a sharp increase in pressure is observed.

Attachments:

- 1) Extended Gas Analysis (Composition)
- 2) Isotopic Analysis



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303-637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

MAIN PAGE

PROJECT NO. :	201011103	ANALYSIS NO. :	01
COMPANY NAME :	ANTERO RESOURCES	ANALYSIS DATE:	NOVEMBER 23, 2010
ACCOUNT NO. :		SAMPLE DATE :	NOVEMBER 19, 2010
PRODUCER :		CYLINDER NO.:	1278
LEASE NO. :		SAMPLED BY :	G. MCENDREE - EMPACT
NAME/DESCRIP :	DIEMOZ A3		
	BRADEN HEAD		
FIELD DATA		SAMPLE TEMP. :	60
SAMPLE PRES. :	340	AMBIENT TEMP.:	
VAPOR PRES. :		GRAVITY :	
COMMENTS :	SPOT; NO PROBE		

COMPONENT	MOLE %	MASS %	GPM @ 14.650	GPM @ 14.730
ALCOHOLS	0.0001	0.0004		
HELIUM	0.00	0.00	---	---
HYDROGEN	0.44	0.04	---	---
OXYGEN/ARGON	0.01	0.02	---	---
NITROGEN	0.39	0.55	---	---
CARBON DIOXIDE	0.06	0.13	---	---
METHANE	82.64600	67.21050	---	---
ETHANE	10.0844	15.3714	2.6900	2.7047
PROPANE	3.7468	8.3753	1.0300	1.0356
I-BUTANE	1.1129	3.2790	0.3630	0.3650
N-BUTANE	0.8560	2.5221	0.2690	0.2705
I-PENTANE	0.3139	1.1479	0.1150	0.1156
N-PENTANE	0.2010	0.7351	0.0730	0.0734
HEXANES PLUS	0.1389	0.6183	0.0550	0.0552
TOTALS	100.00000	100.00000	4.5950	4.6200

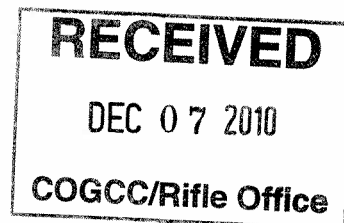
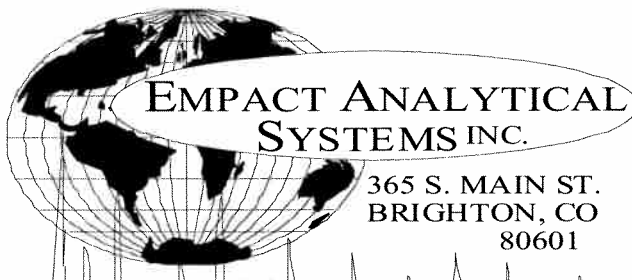
BTEX COMPONENTS	MOLE%	WT%	BTU @	14.650	14.730
BENZENE	0.0001	0.0004	LOW NET DRY REAL :	1087.1 /scf	1093.0 /scf
TOLUENE	0.0003	0.0014	NET WET REAL :	1068.1 /scf	1074.0 /scf
ETHYLBENZENE	0.0000	0.0000	HIGH GROSS DRY REAL :	1200.0 /scf	1206.5 /scf
XYLENES	0.0001	0.0006	GROSS WET REAL :	1179.0 /scf	1185.6 /scf
TOTAL BTEX	0.0005	0.0024	NET DRY REAL :	20911.5 /lb	21025.7 /lb
			GROSS DRY REAL :	23087.6 /lb	23213.6 /lb

RELATIVE DENSITY (AIR=1): 0.6808
COMPRESSIBILITY FACTOR : 0.99688

(CALC: GPA STD 2145 & TP-17 @14.696 & 60 F)

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993) : ASTM D6730

THIS DATA HAS BEEN ACQUIRED THROUGH APPLICATION OF CURRENT STATE-OF-THE-ART ANALYTICAL TECHNIQUES.
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303-637-0150

EXTENDED NATURAL GAS ANALYSIS (*DHA)

GLYCALC INFORMATION

PROJECT NO. :	201011103	ANALYSIS NO. :	01
COMPANY NAME :	ANTERO RESOURCES	ANALYSIS DATE:	NOVEMBER 23, 2010
ACCOUNT NO. :		SAMPLE DATE :	NOVEMBER 19, 2010
PRODUCER :		CYLINDER NO. :	1278
LEASE NO. :		SAMPLED BY :	G. MCENDREE - EMPACT
NAME/DESCRIP :	DIEMOZ A3		
	BRADEN HEAD		
FIELD DATA		SAMPLE TEMP. :	60
SAMPLE PRES. :	340	AMBIENT TEMP.:	
VAPOR PRES. :		GRAVITY :	
COMMENTS :	SPOT; NO PROBE		

Componet	Mole %	Wt %
Helium	0.00	0.00
Hydrogen	0.44	0.04
Carbon Dioxide	0.06	0.13
Nitrogen	0.39	0.55
Methane	82.64600	67.21050
Ethane	10.0844	15.3714
Propane	3.7468	8.3753
Isobutane	1.1129	3.2790
n-Butane	0.8560	2.5221
Isopentane	0.3122	1.1419
n-Pentane	0.2010	0.7351
Cyclopentane	0.0017	0.0060
n-Hexane	0.0382	0.1669
Cyclohexane	0.0038	0.0162
Other Hexanes	0.0802	0.3498
Heptanes	0.0124	0.0628
Methycyclohexane	0.0026	0.0129
2,2,4 Trimethylpentane	0.0000	0.0000
Benzene	0.0001	0.0004
Toluene	0.0003	0.0014
Ethylbenzene	0.0000	0.0000
Xylenes	0.0001	0.0006
C8+ Heavies	0.0012	0.0073
Subtotal	99.98990	99.97960
Oxygen/Argon	0.01	0.02
Alcohols	0.0001	0.0004
Total	100.00000	100.00000

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EXTENDED NATURAL GAS ANALYSIS (*DHA)

DHA COMPONENT LIST

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PROJECT NO. : 201011103
COMPANY NAME : ANTERO RESOURCES
ACCOUNT NO. :
PRODUCER :
LEASE NO. :
NAME/DESCRIP : DIEMOZ A3
BRADEN HEAD

ANALYSIS NO. : 01
ANALYSIS DATE: NOVEMBER 23, 2010
SAMPLE DATE : NOVEMBER 19, 2010
CYLINDER NO. : 1278
SAMPLED BY : G. MCENDREE - EMPACT

FIELD DATA

SAMPLE PRES. : 340
VAPOR PRES. :
COMMENTS : SPOT; NO PROBE

SAMPLE TEMP. : 60
AMBIENT TEMP.:
GRAVITY :

COMPONENT	PIANO #	MOLE %	MASS %	GPM @ 14.650	GPM @ 14.730
Helium	---	0.00	0.00	---	---
Hydrogen	---	0.44	0.04	---	---
Oxygen/Argon	---	0.01	0.02	---	---
Nitrogen	---	0.39	0.55	---	---
Carbon Dioxide	---	0.06	0.13	---	---
Methane	P1	82.64600	67.21050	---	---
Ethane	P2	10.0844	15.3714	2.690	2.705
Propane	P3	3.7468	8.3753	1.030	1.036
i-Butane	I4	1.1129	3.2790	0.363	0.365
n-Butane	P4	0.8560	2.5221	0.269	0.271
2,2-Dimethylpropane	I5	0.0062	0.0227	0.002	0.002
i-Pentane	I5	0.3060	1.1192	0.112	0.113
n-Pentane	P5	0.2010	0.7351	0.073	0.073
t-Butanol	X4	0.0001	0.0004	0.000	0.000
2,2-Dimethylbutane	I6	0.0046	0.0201	0.002	0.002
Cyclopentane	N5	0.0017	0.0060	0.001	0.001
2,3-Dimethylbutane	I6	0.0089	0.0389	0.004	0.004
2-Methylpentane	I6	0.0433	0.1891	0.018	0.018
3-Methylpentane	I6	0.0184	0.0804	0.007	0.007
n-Hexane	P6	0.0382	0.1669	0.016	0.016
2,2-Dimethylpentane	I7	0.0005	0.0025	0.000	0.000
Methylcyclopentane	N6	0.0050	0.0213	0.002	0.002
2,4-Dimethylpentane	I7	0.0012	0.0061	0.001	0.001
2,2,3-Trimethylbutane	I7	0.0002	0.0010	0.000	0.000
Benzene	A6	0.0001	0.0004	0.000	0.000
3,3-Dimethylpentane	I7	0.0002	0.0010	0.000	0.000
Cyclohexane	N6	0.0038	0.0162	0.001	0.001
2-Methylhexane	I7	0.0026	0.0132	0.001	0.001
2,3-Dimethylpentane	I7	0.0007	0.0036	0.000	0.000
1,1-Dimethylcyclopentane	N7	0.0003	0.0015	0.000	0.000
3-Methylhexane	I7	0.0019	0.0096	0.001	0.001
1c,3-Dimethylcyclopentane	N7	0.0005	0.0025	0.000	0.000
1t,3-Dimethylcyclopentane	N7	0.0004	0.0020	0.000	0.000
1t,2-Dimethylcyclopentane	N7	0.0006	0.0030	0.000	0.000
n-Heptane	P7	0.0032	0.0163	0.001	0.001
Methylcyclohexane	N7	0.0026	0.0129	0.001	0.001
2,2-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
Ethylcyclopentane	N7	0.0001	0.0005	0.000	0.000
2,5-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
2,4-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
1c,2t,4-Trimethylcyclopentane	N8	0.0001	0.0006	0.000	0.000

Toluene	A7	0.0003	0.0014	0.000	0.000
2,3-Dimethylhexane	I8	0.0001	0.0006	0.000	0.000
2-Methylheptane	I8	0.0001	0.0006	0.000	0.000
1c,2t,3-Trimethylcyclopentane	N8	0.0002	0.0011	0.000	0.000
1t,4-Dimethylcyclohexane	N8	0.0001	0.0006	0.000	0.000
n-Octane	P8	0.0001	0.0006	0.000	0.000
1,1,4-Trimethylcyclohexane	N9	0.0001	0.0007	0.000	0.000
1,3-Dimethylbenzene (m-Xylene)	A8	0.0001	0.0006	0.000	0.000
n-Nonane	P9	0.0001	0.0007	0.000	0.000
TOTAL		100.00000	100.00000	4.5950	4.6200

BTEX COMPONENTS	MOLE%	WT%
BENZENE	0.0001	0.0004
TOLUENE	0.0003	0.0014
ETHYLBENZENE	0.0000	0.0000
XYLENES	0.0001	0.0006
TOTAL BTEX	0.0005	0.0024

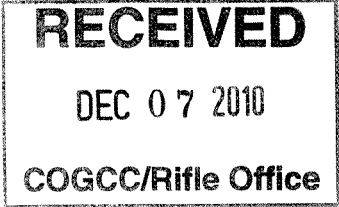
	BTU @	14.650	14.730
LOW NET DRY REAL :		1087.1 /scf	1093.0 /scf
NET WET REAL :		1068.1 /scf	1074.0 /scf
HIGH GROSS DRY REAL :		1200.0 /scf	1206.5 /scf
GROSS WET REAL :		1179.0 /scf	1185.6 /scf
NET DRY REAL :		20911.5 /lb	21025.7 /lb
GROSS DRY REAL :		23087.6 /lb	23213.6 /lb

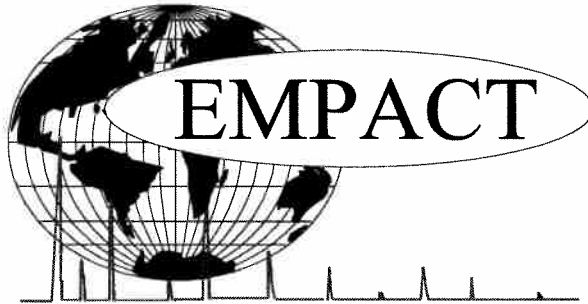
RELATIVE DENSITY (AIR=1): 0.6808
COMPRESSIBILITY FACTOR : 0.99688

(CALC: GPA STD 2145 & TP-17 @14.696 & 60 F)

*(DETAILED HYDROCARBON ANALYSIS/NJ 1993) ; ASTM D6730

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ISOTOPIC ANALYSIS

PROJECT NO. : 201011103 ANALYSIS NO. : 01
COMPANY NAME : ANTERO RESOURCES ANALYSIS DATE: DECEMBER 3, 2010
ACCOUNT NO. : SAMPLE DATE : NOVEMBER 19, 2010
PRODUCER : TO:
LEASE NO. : CYLINDER NO. : 1278
NAME/DESCRIP : DIEMOZ A3
BRADEN HEAD

FIELD DATA

SAMPLED BY : G. MCENDREE - EMPACT AMBIENT TEMP.:
SAMPLE PRES. : 340 GRAVITY :
SAMPLE TEMP. : 60 VAPOR PRES. :
COMMENTS : SPOT
NO PROBE

COMPONENTS	DELTA 13C per mil	DELTA D per mil	DELTA 15N per mil
HELIUM			
HYDROGEN			
OXYGEN/ARGON			
NITROGEN			
CO2			
METHANE	-42.23	-209.30	
ETHANE	-28.55		
PROPANE	-25.14		
ISOBUTANE			
N-BUTANE			
ISOPENTANE			
N-PENTANE			
HEXANES+			

Note: Isotopic composition of carbon is relative to VPDM. Isotopic composition of hydrogen is relative to VSMOW.

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