

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, December 21, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for MONDEO UNIT 3H

47-017-06878-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: MONDEO UNIT 3H

Farm Name: MARY E. DEETS AND/OR PAU

U.S. WELL NUMBER: 47-017-06878-00-00

Horizontal 6A New Drill Date Issued: 12/21/2018

	API	N	un	be	r: _		
 _		ĵ.	7	Λ	4	7	12/24/2018

PERMIT CONDITIONS 470170828/708

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
 (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
 activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	
	12/21/2018

PERMIT CONDITIONS 4701706878

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

47017012/21/2018

API NO. 47-017

OPERATOR WELL NO. Mondeo Unit 3H
Well Pad Name: Deets Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operat	tor: Antero Re	esources Cor	poral 494507062		West Uni Smithburg 7.5'
			Operator ID	County	District Quadrangle
2) Operator's V	Well Number:	Mondeo Unit 3	3H Wel	Pad Name: Dee	ts Pad
3) Farm Name	/Surface Owner	Mary E. Deets and	or Paul A. Smith Public	Road Access: Ol	d US-50
4) Elevation, c	urrent ground:	~1422'	Elevation, propo	sed post-construct	tion: 1376'
5) Well Type	(a) Gas X	0	il t	Inderground Stora	age
	Other				
	(b)If Gas Si	hallow X	Deep		
		orizontal X			
5) Existing Pad	l: Yes or No N	0			
			Anticipated Thickner ickness- 55 feet, Ass		
3) Proposed To	otal Vertical Dep	oth: 7600' TV	/D		
) Formation at	t Total Vertical	Depth: Marc	ellus		
0) Proposed T	otal Measured	Depth: 2040	0' MD		
1) Proposed H	Iorizontal Leg I	ength: 1116	6'		
2) Approxima	te Fresh Water	Strata Depths:	196', 221'		
13) Method to 1	Determine Fres	h Water Depth	s: Offset well records	. Depths have been a	djusted according to surface elevations
	te Saltwater De				
5) Approxima	te Coal Seam D	epths: 583', 7	755', 891		
6) Approxima	te Depth to Pos	sible Void (coa	al mine, karst, other): None Anticipa	ated
	sed well location			No	x
(a) If Yes, pro	vide Mine Info	: Name: _			RECEIVED
		Depth:			Office of Oil and Gas
		Seam:		•	
		Owner:			OCT 1 0 2018
					amont of

WV Department of Environmental Protection

DPF 10/11/18

Page 1 of 3

WW-6B (04/15) API NO 47- 0 1-706878

OPERATOR WELL NO. Mondeo Unit 3H
Well Pad Name: Deets Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	300'	300'	CTS, 417 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	20400'	20400'	5202 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

ТУРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

N/A		
N/A		RECEIVED
N/A		Office of Oll and Gas
	N/A	N/A

DAF 10/4/16

WV Department of Environmental Protection

API NO. 47- 017

OPERATOR WELL NO. Mondeo Unit 3H

Well Pad Name: Deets Pad

9) Describe proposed well	work,	including th	e drilling ar	nd plugging	back of any	pilot hole:
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Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 41.13 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.82 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.

Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

WV Department of Environmental Protection

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MONDEO UNIT 3H (DEETS PAD) - AREA OF REVIEW 35-8-5.11 PAGE 1 12/21/2018 47017028100000 **Antero Resources Corporation** Mondeo Unit 3H - AOR RECEIVED Office of Oil and Gas 2,000 1,000 SEP 2 4 2018 FEET WELL SYMBOLS Gas Well

WV Department of Environmental Protection

September 19, 2018

4701706878

MONDEO UNIT 3H (DEETS PAD) - AREA OF REVIEW 35-8-5.11 PAGE 2

			_				
UWI (APINum) Well Name	Well Number	Operator	Historical Operator	B	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf d
47017028100000 JONES B F JR	2	EQT PRODUCTION CO	CARNEGIE NAT GAS CRP	5,125	2920 - 4917	Blue Monday, Gordon, Warren, Alexander	Wair, Fifth, Warren

RECEIVED Office of Oil and Gas

SEP 2 4 2018

WV Deportment of Environmental Protection WW-9 (4/16)

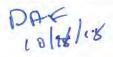
4	7	0	1	7	0	6	8	7	8
No.	4	64	1	B	4	100	6	4	0

API Number 47 - 017 - Operator's Well No, Mondeo Unit 3H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 4945070	62
Watershed (HUC 10) Headwaters Middle Island Creek Quadran	igle Smithburg 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the propos		No D
Will a pit be used? Yes No V		
If so, please describe anticipated pit waste: No plt will be used at this alle (Drilling as	nd Flowback Fluids will be stored in tanks. Cut	itings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Yes No	If so, what ml.? N/A	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
Underground Injection (UIC Permit Number *Ule		
Reuse (at API Number Future permitted well locations whe		
Off Site Disposal (Supply form WW-9 for disposal Other (Explain_		adfill Permit #SWF-1032-98) adfill Permit #SWF-1025/
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks,	cuttings removed offsite an	d taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, fresh	Don't	ce - Air/Freshwater, Intermediata - Stiff Foam, Production - Water Based Mud or etic based mud.
-If oil based, what type? Synthetic, petroleum, etc. Synthetic		
Additives to be used in drilling medium? Please See Attachment		
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etct	Orill cuttings stored in tanks, remo	ved offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cemen	it, lime, sawdust) N/A	
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF.	1032-98), Northwestern Landfill (P	ermlt # SWF-1025/WV0109410)
Demilies shall associate with a string to the Alexander of City of Company	- 6 J. 111 - 111	
Permittee shall provide written notice to the Office of Oil and Gas of any load West Virginia solid waste facility. The notice shall be provided within 24 hou where it was properly disposed.		
I certify that I understand and agree to the terms and conditions of the on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or olaw or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined an application form and all attachments thereto and that, based on my inquinobtaining the information, I believe that the information is true, accurate, penalties for submitting false information, including the possibility of fine or in	nent of Environmental Pro- condition of the general p d am familiar with the in iry of those individuals and complete. I am aw	otection. I understand that the permit and/or other applicable information submitted on this immediately responsible for
Company Official Signature		
Company Official (Typed Name) Gretchen Kohler		OCT 1 0 2018
Company Official Title_Senior Environmental & Regulatory Manager		WV Department of
	———	ANA CALL
Subscribed and sworn before me this day of	, 20	NOTARY PUBLIC
CARLO	Notary Public	STATE OF COLORADO NOTARY ID 20184014160
My commission expires 3/29/2022		MY COMMISSION EXPIRES MARCH 29, 2022



Form WW-9 Operator's Well No. Mondeo Unit 3H Antero Resources Corporation Proposed Revegetation Treatment: Acres Disturbed 41.13 Prevegetation pH Lime 2-4 Tons/acre or to correct to pH 6.5 Fertilizer type Hay or straw or Wood Fiber (will be used where needed) Fertilizer amount 500 lbs/acre Mulch 2-3 Tons/acre Access Road "B" 3132' (13.45 acres) + Well Pad (8.82 acres) + Excess/Topsoil Material Stockpiles (18.86 acres) = 41.13 Acres Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre **Annual Ryegrass** Crownvetch 10-15 40 Field Bromegrass 40 Tall Fescue 30 See attached Table IV-3 for additional seed type (Deets Pad Design Page 51) See attached Table IV-4A for additional seed type (Deets Pad Design Page 51) *or type of grass seed requested by surface owner *or type of grass seed requested by surface owner Attach; Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: RECEIVED Office of Oil and Gas UCT 1 0 2018

Title: Dil + Gas Inspector Date: 10 (4/cr
Field Reviewed? () Yes () No

WV Department of Environmental Protection

Field Reviewed?

Form WW-9 Additives Attachment

SURFACE INTERVAL

- 1. Fresh Water
- 2. Soap –Foamer AC
- 3. Air

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets - LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex – Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM

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Office or Clining Gas

SEP 2 4 2018

13. Escaid 110

Drilling Fluild Solvent – Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene – Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent – Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite – Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

RECEIVED Office of Oil and Gas



911 Address 1995 Smithton Road West Union, WV 26456

Well Site Safety Plan Antero Resources

Well Name: Schrader Unit 1H, Schrader Unit 2H, Telstar Unit 1H,

> Telstar Unit 2H, Telstar Unit 3H, Mondeo Unit 1H. Mondeo Unit 2H, Mondeo Unit 3H, Callahan Unit 1H.

Callahan Unit 2H

Pad Location: DEETS PAD

Doddridge County/West Union District

GPS Coordinates:

Entrance - Lat 39°17′50.7258"/Long -80°44′38.6556" (NAD83) Pad Center - Lat 39°18'52.5132"/Long -80°43'31.3248" (NAD83)

Driving Directions:

Drive west on US-50 W for approximately 22 miles. Turn left onto CO Rte 50/22, go 0.2 miles. Turn right onto Smithton Rd, go 1.3 miles. Access road will be on the right. Once on the access road, continue on past the Peggy June pad and the George Scott Pad to the Deets Pad.

Alternate Route:

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Office of Oil and Gas Drive on US-50 E for 46.3 miles. Turn left onto WV-18 N, go 0.6 miles. Turn right onto Davis St/Smithton Rd, go 2.0 miles. Access road will be on the left. Once on the access road continue 2018 on past the Peggy June pad and the George Scott Pad to the Deets Pad.

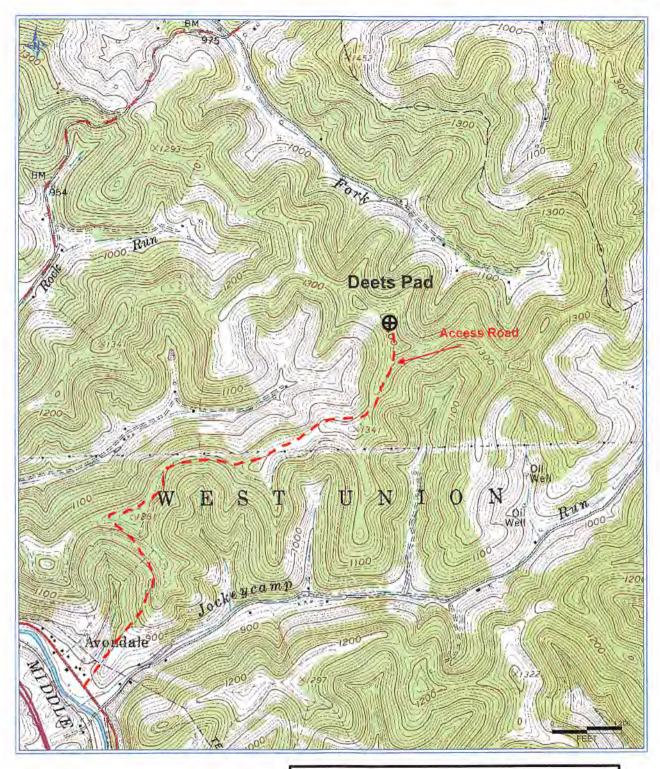
WV Department of

EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

LO 4/16

09/18/2018

SSP Page 1



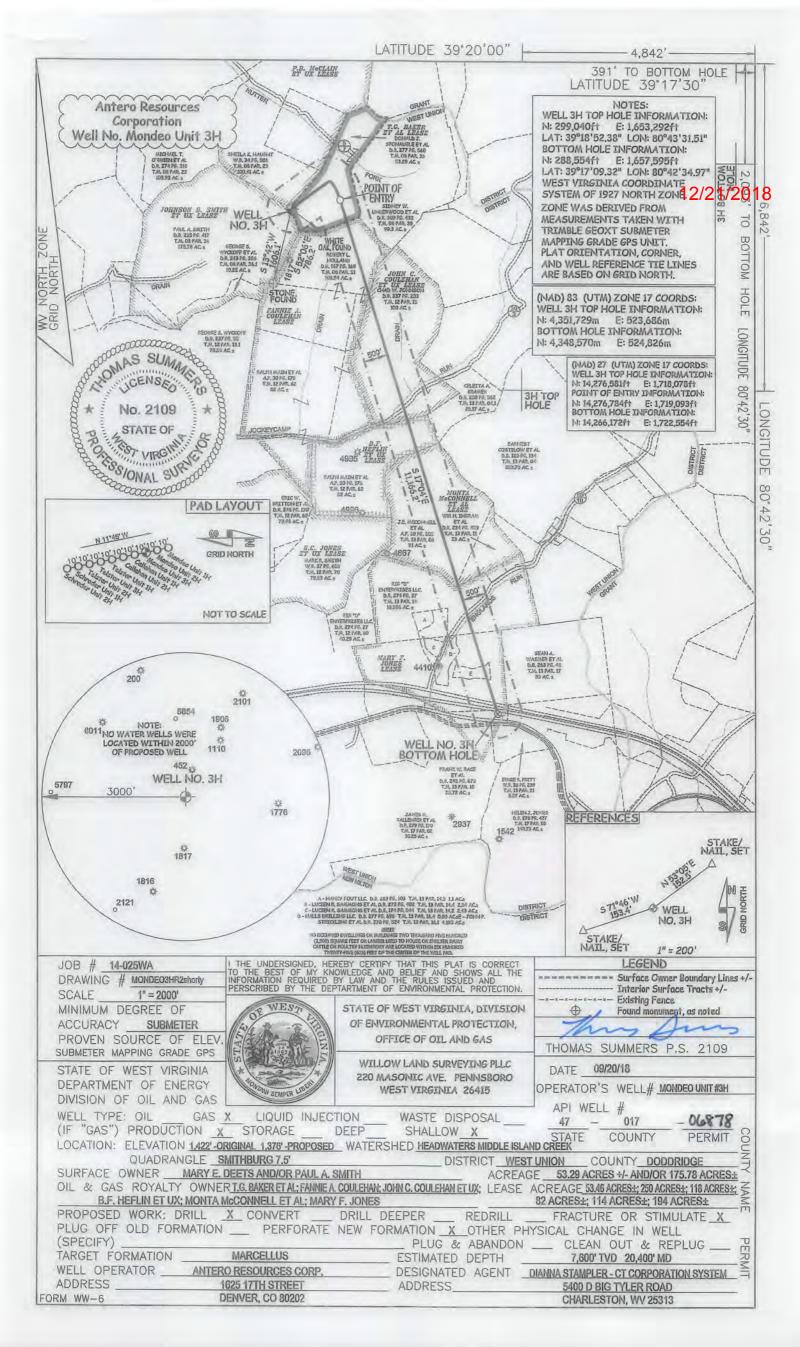


Antero Resources Corporation

Appalachian Basin Mondeo Unit 3H Doddridge County

Quadrangle: West Union Watershed: Middle Island Creek

District: West Union Date: 3-20-2017



Mondeo Unit 3H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Johnson B. Smith et ux <u>Lease</u>			
Johnson B. Smith, et ux	Eastern Oil Company	1/8	0022/0231
Eastern Oil Company	A.W. Stevens	Assignment	0042/0328
A.W. Stevens	Eastern Union Gas Company	Assignment	0042/0330
Eastern Union Gas Company	Pittsburgh & West Virginia Gas Company	Assignment	0085/0334
Pittsburgh & West Virginia Gas Company	Equitable Gas Company	Assignment	0121/0257
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc. EQT Capital Corporation	EQT Capital Corporation Antero Resources Corporation	Name Change Assignment	Exhibit 2 0325/0528
•	,		,
P.B McClain et ux Lease		. 10	0044/0477
P.B. McClain et ux	The West Union Gas Company	1/8	0014/0477
The West Union Gas Company	Eastern Oil Company	Assignment	Unrecorded
Eastern Oil Company	A.W. Stevenson	Assignment	0042/0328
A.W. Stevenson	Eastern Union Gas Company	Assignment	0042/0328
Eastern Union Gas Company	Pittsburgh & West Virginia Gas Company	Assignment	0085/0334
Pittsburgh & West Virginia Gas Company	Equitable Gas Company	Assignment	0121/0303
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	Equitrans, L.P.	Name Change	9 0302/0123
Equitrans, L.P.	Equitable Production-Eastern States, Inc.	Assignment B	0192/0019
Equitable Production-Eastern States, Inc.	EQT Production Company	Name Change Assignment	0281/0346
EQT Production Company	Antero Resources Corporation	Assignment SE S	0302/0123 0192/0019 0192/0019 0281/0346 0325/0539 0044/0483 Unrecorded Unrecorded
T.G. Baker et al Lease			}5 <u></u>
T.G. Baker et al	J.D. Foley	1/8 E 0 C C	€ 0044/0483
J.D. Foley	Delta Petroleum Company	Assignment $\stackrel{\circ}{\mathbb{H}}$	SE Unrecorded
Delta Petroleum Company	Petroleum Development Corporation	Assignment	Unrecorded
Petroleum Development Corporation	PDC Mountaineer, LLC	Assignment	0240/0118
PDC Mountaineer, LLC	Antero Resources Corporation	Assignment	0371/0253
Fannie A. Coulehan Lease			
Fannie A. Coulehan	West Virginia Gas Company	1/8	0018/0297
West Virginia Gas Company	Eastern Oil Company	Assignment	0018/0299
Eastern Oil Company	A.W. Stevenson	Assignment	0018/0299
A.W. Stevenson	Eastern Union Gas Company	Assignment	0042/0328
Eastern Union Gas Company	• •	•	· ·
	Pittsburgh & W.VA Gas Company	Assignment	0085/0334
Pittsburgh & W.VA Gas Company	Equitable Gas Company	Assignment	0121/0303
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	Equitrans, L.P.	Name Change	Unrecorded
Equitrans, L.P.	Equitable Production- Eastern States, Inc.	Assignment	0192/0019
Equitable Production- Eastern States, Inc.	EQT Production Co.	Assignment, Name Change	0281/0346
EQT Production Co.	Antero Resources Corporation	Assignment	0325/0539

^{*}Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

Mondeo Unit 3H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
John C. Coulehan et ux Lease			
John C. Coulehan et ux	West Union Gas Company	1/8	0018/0291
West Union Gas Company	Eastern Oil Compnay	Assignment	0018/0290
Eastern Oil Compnay	Eastern Union Gas Company, et al	Assignment	0042/0328
Eastern Union Gas Company, et al	Pittsburgh & West Virginia Gas Company	Deed	0085/0334
Pittsburgh & West Virginia Gas Company	Equitable Gas Company	Deed	0121/0257
Equitable Gas Company	Equitrans, Inc.	Conveyance, Assignment & Transfer	0154/0475
Equitrans, Inc.	Equitrans, L.P.	Name Change	Unrecorded
Equitrans LP	Equitable Production- Eastern States INC	Assignment	0192/019
Equitable Production- Eastern States INC	Equitable Production Company	Merger	Exhibit 3
Equitable Production Company	EQT Production Company	Name Change	0281/0346
EQT Production Company	Antero Resources Corporation	Assignment	0325/0539
B.F. Heflin, et ux Lease			
B.F. Heflin, et ux	Joseph Freeman & D.P Stout	1/8	0017/0224
Joseph Freeman & D.P. Stout	South Penn Oil Company	Assignment	Unrecorded
South Penn Oil Company	Hope Natural Gas Company	Assignment	0026/0159
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0051/0795
CNG Transmission Corporation	Doninion Transmission Inc	Name Change	0058/0362
Doninion Transmission Inc	CNX Gas Company LLC	Merged	0293/0252
CNX Gas Company LLC	Noble Energy Inc	Assignment	0260/0369
Noble Energy Inc	Antero Resources Corporation	Assignment	0317/0379
Monta McConnell et al Lease			
Monta McConnell et al	E. D. Tate	1/8	0054/0164
E.D. Tate	P. Douglas Farr	Assignment	0094/0128
P. Douglas Farr	Carolyn Farr	Will	0015/0347
Carolyn Farr	Antero Resources Appalachian Corporation	Assignment	0271/0541
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1



^{*}Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

WW-6A1	l
(5/13)	

Operator's Well No. Mo	londeo Unit 3H
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Mary F. Jones Lease				
	Mary F. Jones	Tate and Gribble	1/8	0053/0404
	Tate and Gribble	Carolyn E. Farr	Assignment	0126/0065
	Carolyn E. Farr	P.D. Farr II	Assignment	0163/0368
	P.D. Farr II	Carolyn E. Farr	Assignment	0167/0234
	Carolyn E. Farr	Carolyn Elizabeth Farr Trust	Conveyance	0220/0237
	Carolyn Elizabeth Farr Trust	Antero Resources Appalachian Corporation	Assignment	0271/0541
	Antero Resources Appalachian Corporation		Name Change	Exhibit 1

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

Office of Cirind Gas

SER 2 4 2018

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

Environment Francoion

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation

By: Kevin Kilstrom

Its: Senior Vice President - Production

FILED

JUN 1 0 2013

Natalie E. Tennant. Secretary of State 1900 Kanawha Bivd E Bldg 1, Suite 157-K Charleston, WV 25305

FILE ONE ORIGINAL (Two if you want a filted stamped copy returned to you) FEE: 825:00



Penney Barker, Manager IN THE OFFICE OF Corporations Division ECRETARY OF STATE Pax: (304)558-8000

Website: www.wysos.com E-mall; business@wvsos.com

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

**** In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby **** applies for an Amended Certificate of Authority and submits the following statement:

Office Hours: Monday - Friday 8:30 a.m. - 5:00 p.m. ET

	and the second second second second	
1.	Name under which the corporation was authorized to transact business in WV:	Antero Resources Appalachian Corporation
2.	Date Certificate of Authority was issued in West Virginia:	6/25/2008
3.	Corporate name has been changed to: (Attach one <u>Certified Copy of Name Change</u> as filed in home State of incorporation.)	Antero Resources Corporation
4.	Name the corporation elects to use in WV: (due to home state name not being available)	Antero Resources Corporation
5.	Other amendments: (attach additional pages if necessary)	
		1 41
	Y :	
6.	Name and phone number of contact person. (the filing, listing a contact person and phone num document.)	This is optional, however, if there is a problem with nber may avoid having to return or reject the
	Alvyn A. Schopp	(303) 357-7310
	Contact Name	Phone Number
7.	Signature information (See below * <i>Important i</i>	Legal Notice Regarding Signature):
	Print Name of Signer: Abyn A. Schopp	Title/Capacity: Authorized Person
	Signature: 42 Hacks pp	Date: June 10, 2013
Any to th		ris Code <u>831D-1-129</u> . Penalty for signing false document. y material respect and knows that the document is to be delivered upon conviction thereof, shall be fined not more than one re than one year, or both.
Porm !	CF-4 Issued by the Office	o of the Secretary of State - Revised 4/1

W1012 - 0416/2011 Walkin Kloner Odlas

SEP 2 4 2018

Write Hyent of Environment of Franction FORM WW-6A1 EXHIBIT 2, Page 1

BOOK 512 ME 781

ARTICLES OF MERGER Of KENTUCKY WEST VIRGINIA GAS COMPANY

a West Virginia Company

Into

NOVERSE 1995.
IN THE OFFICE OF
SECRETARY OF STATE
WEST VIRGINIA

EOT CAPITAL CORPORATION

a Delaware Company

Pursuant to the provisions of Section 38, Article 1, Chapter 31 of the Code of West Virginia, 1931, as amended, the undersigned corporation adopts the following Articles of Merger for the purpose of merging a subsidiary corporation into the undersigned as the surviving corporation:

The undersigned foreign corporation is incorporated under the laws of Delaware and the laws of such jurisdiction permit such a merger.

The following Plan of Merger was adopted by the undersigned corporation in the manner prescribed by the laws of the jurisdiction under which it is organized.

This Plan of Merger dated as of November 20, 1995, is among EQT Capital Corporation ("EQT"), a Delaware corporation, Equitrans, Inc. ("Equitrans"), a Delaware corporation and Kantucky West Virginia Gas Company ("Kentucky West"), a West Virginia corporation. The terms of the merger shall be as follows:

- Equitrans and Kentucky West shall merge into EQT. EQT shall be the surviving corporation with its corporate identity, existence, purposes, powers, franchises, rights and immunities unimpaired.
- The issued and outstanding shares of common stock of Equitrans and Kantucky West, shall without further action on the part of Equitrans, Kentucky West or EQT, be cancelled and of no further effect as of the Effective Date of the merger (as defined below).
- 3. A Certificate of Merger shall be filed as required by law with the Secretary of State of the State of West Virginia and the Secretary of State of the State of Delaware. The Effective Date of the merger shall be the last date of filing with the respective secretaries of state (the "Effective Date"). On the Effective Date, Equitrans and Kentucky West will cease to exist as separate corporations and EQT will succeed to all of the assets, rights, privileges, immunities, powers, duties and Habilities of Equitrans and Kentucky West in secondance with the provisions of the West Virginia Corporation Act and of the Delaware General Corporation Law.
- The current Certificate of Incorporation of EQT shall be its Certificate of Incorporation on and after the Effective Date of the merger.

Office or Cultural Gas

SEP 2 4 2018

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ORM WW-6A1 EXHIBIT 2, Page 2

BOOK 512 MIGE 782

3643576551

This Plan of Merger shall be executed by the corporate officers of Kentucky West, Equitrans and EQT.

The number of outstanding shares of each class of the subsidiary corporation and the number of such shares of each class owned by the surviving corporation are as follows:

Kentucky West Virginia 331,754 Common 331,754	Name of Subsidiary	Number of Shares Outstanding	Designation of	Number of Shares Owned by Surviving Corporation
	Kentucky West Virginia Gas	331,754	Common	331,754

A copy of the Plan of Merger set forth above was mailed on September 1, 1995 to each Shareholder of the subsidiary corporation.

The undersigned corporation hereby: (a) agrees that it may be served with process in the State of West Virginia in any proceeding for the enforcement of the rights of a dissenting shareholder of the above-mentioned subsidiary corporation against the surviving corporation; (b) irrevocably appoints the Secretary of State of the State of West Virginia as its agent to accept service of process in any such proceeding; and (c) agrees that it will promptly pay to the dissenting shareholders of such domestic corporation the amount, if any, to which they shall be entitled under Section 123, Articles 1, Chapter 31 of the Code of West Virginia with respect to the rights of dissenting shareholders.

Dated November 20, 1995.

EOT CAPITAL CORPORATION

RECEIVED Office of Oll and Gas

SEP 2 4 2018



I, Joe Manchin III, Secretary of State of the State of West Virginia, hereby certify that

by the provisions of Chapter 31 of the West Virginia Code, Articles of Merger were received and filed MERGING EQUITABLE PRODUCTION - EASTERN STATES, INC., A QUALIFIED DE ORGANIZATION, WITH AND INTO EQUITABLE PRODUCTION COMPANY, A QUALIFIED ORGANIZATION.

Therefore, I hereby issue this

CERTIFICATE OF MERGER



Given under my hand and the Great Seal of the State of West Virginia on this day of June 28, 2001

Office of Chieff Gas.

VALUE - OF STREET

Secretary of State



September 14, 2018

Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

West Virginia Department of Environmental Protection Chief, Office of Oil and Gas Attn: Mr. James Martin 601 57th Street SE Charleston, WV 25304

RE: Mondeo Unit 3H

Quadrangle: Smithburg 7.5'

Doddridge County/West Union District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Mondeo Unit 3H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Mondeo Unit 3H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Brett Kuhn Senior Landman

> RECEIVED Office of Oil and Gas

SEP 2 4 2018

Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE CERTIFICATION**

Date of Notic	e Certification: 09/20/2018		No. 47- <u>0</u>			
		Oper	Operator's Well No. Mondeo Unit 3H			
		Well	Pad Nam	e: Deets Pa	<u></u>	
Notice has b	peen given:					
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provided	the require	ed parties w	ith the Notice Forms listed	
	tract of land as follows:	~				
State:	West Virginia	UTM NAD 83 Easti		1686m		
County:	Doddridge	Nortl		51729m		
District:	West Union	Public Road Access:	_	D US-50	dies Daul A. Smith	
Quadrangle:	Smithburg 7.5'	Generally used farm na	me: <u>wa</u>	ry E. Deets and	d/or Paul A. Smith	
Watershed:	Headwaters Middle Island Creek					
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sleed the owners of the surface describe equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following informations of in subdivisions (1), (2) and (4 ction sixteen of this article; (ii) that rvey pursuant to subsection (a), se f this article were waived in writing ender proof of and certify to the second	on: (14) A), subsecti the requir ction ten ig by the	certification (b), second (b), second (b), second (b), second (c),	on from the operator that (1) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice oner; and Pursuant to West	
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		tice Certi	fication	OOG OFFICE USE ONLY	
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED B SEISMIC ACTIVITY WAS CON			☐ RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	'EY or 🔳 NO PLAT SURVEY W	AS CONI	DUCTED	RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED IN NOTICE OF ENTRY FOR PLATWAS CONDUCTED or			RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER BY SI (PLEASE ATTACH)	JRFACE	OWNER		
■ 4. NO	TICE OF PLANNED OPERATION	PTOFN'ER Office of Cirk an) d Ga s		RECEIVED	
■ 5. PUI	BLIC NOTICE	SEP 242	018		RECEIVED	
■ 6. NO	TICE OF APPLICATION	VALEY COMP			RECEIVED	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

By:

Certification of Notice is hereby given:

THEREFORE, I Kevin Kilstrom , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Antero Resources Corporation Address: 1615 Wynkoop Street

Kevin Kilstrom

Its: Senior VP of Production

Telephone: 303-357-7310

Denver, CO 80202

Facsimile: 303-357-7315

Email: kcox@anteroresources.com

NOTAR VOKAL NOTARY PUBLIC STATE OF COLORADO

STATE OF COLORADO NOTARY ID 20184014160

MY COMMISSION EXPIRES MARCH 29, 2022

Subscribed and sworn before me this 20 day of 2

Notary Public

My Commission Expires_

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

Office of Cul and Gas

SEP 2 4 2018

MV Disperiment of Environmental Franction

API NO. 47- 017 - 12/21/2018
OPERATOR WELL NO. Mondeo Unit 3H
Well Pad Name: Deets Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no	later than the filing date of permit application.	
Date of Notice: 9/21/2018 Date Permit Application Fil	ed: 9/21/2018	
	OF APPROVAL FOR THE ON OF AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22	2-6A-10(b)	
☐ PERSONAL ☐ REGISTERED ☑	METHOD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL	RECEIPT OR SIGNATURE CONFIRMATION	
oil and gas leasehold being developed by the proposed well described in the erosion and sediment control plan submitte operator or lessee, in the event the tract of land on which th more coal seams; (4) The owners of record of the surface travell work, if the surface tract is to be used for the placement impoundment or pit as described in section nine of this article have a water well, spring or water supply source located with provide water for consumption by humans or domestic anin proposed well work activity is to take place. (c)(1) If more the subsection (b) of this section hold interests in the lands, the records of the sheriff required to be maintained pursuant to provision of this article to the contrary, notice to a lien hold	to be located; (2) The owners of record of the surface tract or to work, if the surface tract is to be used for roads or other land of pursuant to subsection (c), section seven of this article; (3) The well proposed to be drilled is located [sic] is known to be unact or tracts overlying the oil and gas leasehold being developed to, construction, enlargement, alteration, repair, removal or abacle; (5) Any surface owner or water purveyor who is known to thin one thousand five hundred feet of the center of the well panals; and (6) The operator of any natural gas storage field with than three tenants in common or other co-owners of interests displicant may serve the documents required upon the person of section eight, article one, chapter eleven-a of this code. (2) Note is not notice to a landowner, unless the lien holder is the land also provide the Well Site Safety Plan ("WSSP") to the surface tresting as provided in section 15 of this rule.	disturbance as The coal owner, Iderlain by one or Iderlain by one Iderlain b
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan	Notice Well Plat Notice is hereby provided to:	ν.
☑ SURFACE OWNER(s) Name: please see attachment	☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY	กาดตฟอ D Omat - Maad Gas
Address:	Address:	- Sep 2 4 2018
Name:	COAL OPERATOR	_
Address:	Name: No DECLARATIONS ON RECORD WITH COUNTY Address:	The English and American
SURFACE OWNER(s) (Road and/or Other Disturband	ce)	-
Name: PLEASE SEE ATTACHMENT Address:	☐WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE	
7144655.	Name: None Identified Within 1,500'	_
Name:	Address:	_
Address:	☐ OPERATOR OF ANY NATURAL GAS STOR	_
SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	- -
Address:	*Please attach additional forms if necessary	-



47017.06878

API NO. 47-017 - 12/21/2018

OPERATOR WELL NO. Mondee Unit 3H

Well Pad Name: Deets Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-017 - 12/21/2018
OPERATOR WELL NO. Mondeo Unit 3H

Well Pad Name: Deets Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

| Comments | Code § 22-6A-10(b) | Proposed | P

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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WM Department of Environmental Pack after

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47-017 0 1 7 0 6 8 7 8
OPERATOR WELL NO. Mondeo Unit 3H
Well Pad Name: Deets Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.



OPERATOR WELL NO. Monde Well Pad Name: Deets Pad

Notice is hereby given by:

Well Operator: Antero Resources Corporation

Telephone: (303) 357-7310 Email: kcox@anteroresources.com Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

KARIN COX NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184014160 MY COMMISSION EXPIRES MARCH 29, 2022 Subscribed and sworn before me this 31 day of 500

Notary Public

Office of Oil and Gas

SEP 2 4 2018

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WW-6A Notice of Application Attachment (DEETS PAD):

List of Surface Owner(s) with Proposed Disturbance associated with Deets Well Pad:

WELL PAD - These owners were notified of all well work permit applications and have executed signed Surface Use Agreements with Antero Resources Corporation.

TM 8 PCL 23

Owner:

Sheila K. Haught

Address:

825 Johnson Williams Hollow

West Union, WV 26456

TM 8 PCL 36

Owner:

Paul Amos Smith Jr

Address:

140 Belvue Dr

Los Gatos, CA 95032

TM 8 PCL 38

Owner:

Mary Ellene Deets

Address:

5528 Pepperidge Rd

Clinton, OH 44216

Owner:

Donald J. Sponaugle,

c/o Lennie McKinney III

Address:

5528 Pepperidge Rd

Clinton, OH 44216

Owner: Address: Carol Lynn Liston 7490 Beach Road

Wadsworth, OH 44281

Owner:

Linda Fay Stair

Address:

10665 Market Avenue N

Hartville, OH 44632

Owner:

Jo Ann Adair

Address:

2473 E. Turkeyfood Lake Road

Akron, OH 44319

Owner:

Eva Mae Starcher 1504 1st Street

Address:

Lakemore, OH 44250

Owner:

Wyonne Sue Bates

Address:

168 Evergreen Gircle

Akron, OH 44301

Owner: Address: Twilia Jo Radcliffe 84605 McGill Road

Tippecanoe, OH 44699

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ROAD AND/OR OTHER DISTURBANCE - These owners were only notified if their tract was overlying the oil and gas leasehold being developed by the proposed well work as outlined in WV Code 22-6A-10(b)(2).

TM 8 PCL 51

Robert L. Holland Owner:

225 Watchung Fork Address:

Westfield, NJ 07090

TM 8 PCL 36.1

George S and Susan R Wycoff Owner:

PO Box 102 Address:

Smithburg, WV 26436

TM 12 PCL 13.1

George S. Wyckoff Owner: PO Box 102 Address:

Smithburg, WV 26436

TM 8 PCL 38

Owner: Mary Ellene Deets

5528 Pepperidge Rd Address:

Clinton, OH 44216

Owner: Donald J. Sponaugle,

c/o Lennie McKinney III

5528 Pepperidge Rd Address:

Clinton, OH 44216

Owner: Carol Lynn Liston Address:

7490 Beach Road

Wadsworth, OH 44281

Owner: Linda Fay Stair

10665 Market Avenue N Address:

Hartville, OH 44632

TM 8 PCL 38 cont.

Owner: Jo Ann Adair

2473 E. Turkeyfoot Lake Road Address:

Akron, OH 44319

Owner: Eva Mae Starcher 1504 1st Street Address:

Lakemore, OH 44250

Wyonne Sue Bates Owner:

Address: 168 Evergreen Circle Akron, OH 44301

Owner: Address: Twilia Jo Radcliffe 84605 McGill Road

Tippecanoe, OH 44699

TM 8 PCL 23

Owner: Sheila K. Haught

825 Johnson Williams Hollow Rd Address:

West Union, WV 26456

TM 8 PCL 23.1

Brian S and Lisa Daro Owner:

346 Johnson Williams Hollow Rd Address:

West Union, WV 26456

TM 8 PCL 36

Owner: Paul Amos Smith Jr

140 Belvue Dr Address:

Los Gatos, CA 95032

Office or un and Gas

SEP 2 4 2018

WV Dan of ment of

WW-6A4 (1/12) Operator Well No. Monday Walt 3/2018

Multiple Wells on Deets Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Notic	Requirement: Notice shall be provide: 09/05/2018 Date	e Permit Application Filed: 09/21/2018	Official of Cas
Delivery met	hod pursuant to West Virginia Coo	le § 22-6A-16(b)	SEP 2 4 2018
☐ HAND	■ CERTIFIED MAIL		V. V. Pr
DELIVE	RY RETURN RECEIPT	REQUESTED	Env to non the legal
receipt reques drilling a hori of this subsec subsection ma and if availab Notice is her	ted or hand delivery, give the surface ground well: <i>Provided</i> , That notice ground as of the date the notice was promy be waived in writing by the surfactle, facsimile number and electronic number provided to the SURFACE	e owner notice of its intent to enter upon to given pursuant to subsection (a), section to vided to the surface owner: <i>Provided</i> , how e owner. The notice, if required, shall included address of the operator and the operator. COWNER(s):	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	SE SEE ATTACHMENT	Name:	
Address:		Address:	
the surface ov	est Virginia Code § 22-6A-16(b), ne	; a horizontal well on the tract of land as for	well operator has an intent to enter upon bllows:
Pursuant to W the surface ov State: County: District:	Vest Virginia Code § 22-6A-16(b), nowner's land for the purpose of drilling West Virginia Doddridge West Union	uth NAD 83 Easting: Northing: Public Road Access:	523686m 4351729m Old US-50
Pursuant to W	Vest Virginia Code § 22-6A-16(b), no wner's land for the purpose of drilling West Virginia Doddridge	a horizontal well on the tract of land as for the land as for the tract of land as for the tract of land as for the	523686m 4351729m
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor	Vest Virginia Code § 22-6A-16(b), nover's land for the purpose of drilling West Virginia Doddridge West Union Smithburg 7.5' Headwaters Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of izontal drilling may be obtained from	uTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, addithe operator and the operator's authorize the Secretary, at the WV Department of	523686m 4351729m Old US-50
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor located at 601	Vest Virginia Code § 22-6A-16(b), nover's land for the purpose of drilling West Virginia Doddridge West Union Smithburg 7.5' Headwaters Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of izontal drilling may be obtained from	uTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: this notice shall include the name, addithe operator and the operator's authorize the Secretary, at the WV Department of	billows: 523686m 4351729m Old US-50 Mary E. Deets and/or Paul A. Smith ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters,
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor located at 601 Notice is her	Vest Virginia Code § 22-6A-16(b), novner's land for the purpose of drilling West Virginia Doddridge West Union Smithburg 7.5' Headwaters Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of izontal drilling may be obtained from 57th Street, SE, Charleston, WV 25.	this notice shall include the name, addithe operator and the operator's authorized the Secretary, at the WV Department of 304 (304-926-0450) or by visiting www.de	billows: 523686m 4351729m Old US-50 Mary E. Deets and/or Paul A. Smith ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor located at 601 Notice is her	Vest Virginia Code § 22-6A-16(b), novner's land for the purpose of drilling West Virginia Doddridge West Union Smithburg 7.5' Headwaters Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of izontal drilling may be obtained from 57th Street, SE, Charleston, WV 25. reby given by:	this notice shall include the name, addithe operator and the operator's authorized the Secretary, at the WV Department of 304 (304-926-0450) or by visiting www.de	billows: 523686m 4351729m Old US-50 Mary E. Deets and/or Paul A. Smith ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operator Address:	Vest Virginia Code § 22-6A-16(b), nover's land for the purpose of drilling West Virginia Doddridge West Union Smithburg 7.5' Headwaters Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of izontal drilling may be obtained from 57th Street, SE, Charleston, WV 25. reby given by: T: Antero Resources Appalachian Corporation	this notice shall include the name, addithe operator and the operator's authorize method the Secretary, at the WV Department of 304 (304-926-0450) or by visiting www.defactorized Authorized Representative: Address:	bllows: 523686m 4351729m Old US-50 Mary E. Deets and/or Paul A. Smith ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hor located at 601 Notice is he Well Operato Address: Telephone:	Vest Virginia Code § 22-6A-16(b), novner's land for the purpose of drilling West Virginia Doddridge West Union Smithburg 7.5' Headwaters Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of izontal drilling may be obtained from 57th Street, SE, Charleston, WV 25. reby given by: Antero Resources Appalachian Corporation 1615 Wynkoop St.	this notice shall include the name, addithe operator and the operator's authorized the Secretary, at the WV Department of 304 (304-926-0450) or by visiting www.defactorized authorized Representatives Address: Telephone:	billows: 523686m 4351729m Old US-50 Mary E. Deets and/or Paul A. Smith ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Karin Cox 1615 Wynkoop St.
Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to V facsimile nun related to hor located at 601 Notice is he Well Operato	Vest Virginia Code § 22-6A-16(b), novner's land for the purpose of drilling West Virginia Doddridge West Union Smithburg 7.5' Headwaters Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(b), nober and electronic mail address of izontal drilling may be obtained from 57th Street, SE, Charleston, WV 25. Teby given by: "Antero Resources Appalachian Corporation 1615 Wynkoop St. Denver, CO 80202	this notice shall include the name, addithe operator and the operator's authorize method the Secretary, at the WV Department of 304 (304-926-0450) or by visiting www.defactorized Authorized Representative: Address:	billows: 523686m 4351729m Old US-50 Mary E. Deets and/or Paul A. Smith ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Karin Cox 1615 Wynkoop St. Denver, CO 80202

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deepprivacyofficer@wv.gov.

WW-6A4 Notice of Intent to Drill Attachment:

Surface Owners:

Tax Parcel ID: 8-8-23

Owner:

Address:

Sheila K Haught 825 Johnson Williams Hollow Rd

West Union, WV 26456

Tax Parcel ID: 8-8-36

Owner: Address: Paul Amos Smith 140 Belvue Dr

Los Gatos, CA 95032

Tax Parcel ID: 8-8-38

Owner: Address: Mary Ellen Deets 5528 Pepperidge Rd Clinton, OH 44216

Owner:

Donald J. Sponaugle,

c/o Lennie MoKinney III

Address:

5528 Pepperidge Rd

Clinton, OH 44216

Owner: Address: Carol Lynn Liston 7490 Beach Road

Wadsworth, OH 44281

Owner:

Linda Fay Stair

*Please note this address for Linda Fay Stair has been updated:

Address:

100 Shayne Lane

10665 Market Avenue N

Latrobe, PA 15650

Hartville, OH 44632

Owner:

Jo Ann Adair

Address:

2473 E. Turkeyfoot Lake Road

Akron, OH 44319

Owner: Address: Eva Mae Starcher 1504 1st Street

Lakemore, OH 44250

Owner: Address: Wyonne Sue Bates 168 Evergreen Circle Akron, OH 44301

Twilia Jo Radchiffe

Owner: Address:

84605 McGill Road Tippecanoe, OH 44699 Office of Cul and Gas

SEP 2 4 2018

Wh/ Demonstrated of Environmental Fratecilon

Operator Well No. Mondeo Unit 3H 2018

WW-6A5 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	e Requirement: notice shall be pro fice: 09/21/2018 Date Po	ermit Application Filed: 09/21/2018	Chin E _ I Gas
Delivery m	ethod pursuant to West Virginia	Code § 22-6A-16(c)	SEP 2 4 2013
CER'	TIFIED MAIL	☐ HAND	
	JRN RECEIPT REQUESTED	DELIVERY	En 8
return recei the planned required to drilling of damages to (d) The not of notice.	pt requested or hand delivery, give operation. The notice required be provided by subsection (b), section horizontal well; and (3) A proposite surface affected by oil and gas occurred by this section shall be creby provided to the SURFACE	the surface owner whose land will be used y this subsection shall include: (1) A copy on ten of this article to a surface owner who sed surface use and compensation agreement operations to the extent the damages are core given to the surface owner at the address to the owner at the own	lication, an operator shall, by certified mail for the drilling of a horizontal well notice of y of this code section; (2) The information ose land will be used in conjunction with the ent containing an offer of compensation for impensable under article six-b of this chapter. listed in the records of the sheriff at the time
	ess listed in the records of the sherif	ff at the time of notice): Name:	
Namas PIFA	SE SEE ATTACHMENT		
Address:	ereby given: West Virginia Code § 22-6A-16(c)	Address:, notice is hereby given that the undersigned	l well operator has developed a planned
Notice is h Pursuant to operation of State: County:	ereby given: West Virginia Code § 22-6A-16(c) on the surface owner's land for the publication with the publication of the publi	Address: notice is hereby given that the undersigned purpose of drilling a horizontal well on the to the undersigned Easting: Northing	d well operator has developed a planned ract of land as follows: 523686m 4351729m
Notice is h Pursuant to operation of State: County: District:	ereby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the public destruction with the publ	Address: notice is hereby given that the undersigned burpose of drilling a horizontal well on the to the UTM NAD 83 Easting: Northing Public Road Access:	d well operator has developed a planned ract of land as follows: 523686m 4351729m OLD US-50
Notice is h Pursuant to operation of State: County:	ereby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the public destruction with the publ	Address: notice is hereby given that the undersigned purpose of drilling a horizontal well on the to the undersigned Easting: Northing	d well operator has developed a planned ract of land as follows: 523686m 4351729m OLD US-50
Notice is h Pursuant to operation of State: County: District: Quadrangle Watershed: This Notic Pursuant to to be prov horizontal surface affi information headquarte	Preby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the property of the surface owner's land for the proposed surface west Union Smithburg 7.5' Headwaters Middle Island Creek Proposed Stall Include: West Virginia Code § 22-6A-16(c) Include: West Virginia Code § 22-6A-10(c) Include: West Virginia Code § 22-6A-10(c) Include: I	Address:	d well operator has developed a planned ract of land as follows: 523686m 4351729m OLD US-50
Notice is h Pursuant to operation of State: County: District: Quadrangle Watershed: This Notic Pursuant to to be prov horizontal surface affi information headquarte gas/pages/o	ereby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the particle of the surface owner's land for the particle owner's land for the particle owner's land land creek Shall Include: West Virginia Code § 22-6A-16(c) ded by W. Va. Code § 22-6A-10(c) ded by W. Va. Code § 25-6A-10(c) ded by W. Va. Code § 2	Address: notice is hereby given that the undersigned purpose of drilling a horizontal well on the transport of transport of the transport of transp	d well operator has developed a planned ract of land as follows: 523686m 4351729m OLD US-50 Mary E. Deets and/or Paul A. Smith s code section; (2) The information required a used in conjunction with the drilling of a an offer of compensation for damages to the order article six-b of this chapter. Additional V Department of Environmental Protection (0) or by visiting <a href="https://www.dep.wv.gov/oil-and-upwww.dep.wv.gov/oil-and-upwww.dep.wv.gov/oil-and-upwww.dep.wv.gov/oil-and-upwww.dep.wv.gov/oil-and-upww.dep.wv.gov/oil-and-upww.dep.wv.gov/oil-and-upww.dep.wv.gov/oil-and-upww.dep.wv.gov/oil-and-upww.dep.wv.gov/oil-and-upwww.dep.wv</td></tr><tr><td>Notice is h Pursuant to operation of State: County: District: Quadrangle Watershed: This Notic Pursuant to to be prov horizontal surface affi information headquarte</td><td>ereby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the particle of the surface owner's land for the particle owner's land for the particle owner's land land creek Shall Include: West Virginia Code § 22-6A-16(c) ded by W. Va. Code § 22-6A-10(c) ded by W. Va. Code § 25-6A-10(c) ded by W. Va. Code § 2</td><td>Address: Address: notice is hereby given that the undersigned burpose of drilling a horizontal well on the transport of the description of the extent the damages are compensable under the description of the description o</td><td>d well operator has developed a planned ract of land as follows: 523686m 4351729m OLD US-50 Mary E. Deets and/or Paul A. Smith s code section; (2) The information required a used in conjunction with the drilling of a an offer of compensation for damages to the nder article six-b of this chapter. Additional V Department of Environmental Protection (0) or by visiting www.dep.wv.gov/oil-and-treet

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

WW-6A5 Notice of Planned Operations Attachment (DEETS PAD):

List of Surface Owner(s) with Proposed Disturbance associated with Deets Well Pad:

WELL PAD – These owners were notified of all well work permit applications and have executed signed Surface Use Agreements with Antero Resources Corporation.

TM 8 PCL 23

TM 8 PCL 36

Owner:

Sheila K. Haught

Owner:

Paul Amos Smith Jr

Address:

825 Johnson Williams Hollow Rd

Address:

140 Belvue Dr

West Union, WV 26456

Los Gatos, CA 95032

TM 8 PCL 38

Owner:

Mary Ellene Deets

Address:

5528 Pepperidge Rd

Clinton, OH 44216

Owner:

Donald J. Sponaugle,

c/o Lennie McKinney III

Address:

5528 Pepperidge Rd

Clinton, OH 44216

Owner:
Address:

Carol Lynn Liston 7490 Beach Road

Wadsworth, OH 44281

Owner:

Linda Fay Stair

Address:

10665 Market Ave N

Hartville OH 44632

Owner:

Jo Ann Adair

Address:

2473 E. Turkeyfoot Lake Road

Akron, OH 44319

Owner: Address:

Eva Mae Starcher 1504 1st Street

Lakemore, OH 44250

Owner: Address:

Wyonne Sue Bates 168 Evergreen Circle

Akron, OH 44301

Owner:
Address:

Twilia Jo Radcliffe 84605 McGill Road

Tippecanoe, OH 44699

INDICATIVED

Office of Frend Gas

of of



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

September 11, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

> Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Deets Pad, Doddridge County

Mondeo Unit 3H Well Site

Office of Children Gas

SEP 2 4 2018

VAY Dense tream of Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2016-0698 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off of Doddridge County Route 50/30 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Day K. Clayton

Cc: Karin Cox

Antero Resources Corporation

CH, OM, D-4

File

List of Anticipated Additives Used for Fracturing or தி. இரி இ

Additives	Chemical Abstract Service Number	
Additives	(CAS#)	
Fresh Water	7732-18-5	
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
Ammonium Persulfate	7727-54-0	
Anionic copolymer	Proprietary	
Anionic polymer	Proprietary	
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	
Cellulase enzyme	Proprietary	
Demulsifier Base	Proprietary	
Ethoxylated alcohol blend	Mixture	
Ethoxylated Nonylphenol	68412-54-4	
Ethoxylated oleylamine	26635-93-8	
Ethylene Glycol	107-21-1	
Glycol Ethers	111-76-2	
Guar gum	9000-30-0	
Hydrogen Chloride	7647-01-0	
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	
Isopropyl alcohol	67-63-0	
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	
Microparticle	Proprietary	
Petroleum Distillates (BTEX Below Detect)	64742-47-8	
Polyacrylamide	57-55-6	
Propargyl Alcohol	107-19-7	
Propylene Glycol	57-55-6	
Quartz	14808-60-7	
Sillica, crystalline quartz	7631-86-9	
Sodium Chloride	7647-14-5	
Sodium Hydroxide	1310-73-2	
Sugar	57-50-1	
Surfactant	68439-51-0	
Suspending agent (solid)	14808-60-7	
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
Solvent Naphtha, petroleum, heavy aliph	64742-96-7 REC Office of	EIVED Dil and Gas
Soybean Oil, Me ester	67784-80-9	Jii and dag
Copolymer of Maleic and Acrylic Acid	52255-49-9 SEP 2	4 2018
DETA phosphonate	15827-60-8	1
Hexamthylene Triamine Penta	34690-00-1 W/V Discrete	ortmost of Li Protesti on
Phosphino Carboxylic acid polymer	71050-62-9	
Hexamethylene Diamine Tetra	23605-75-5	
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	
Diethylene Glycol	111-46-6	
Methenamine	100-97-0	
Polyethylene polyamine	68603-67-8	
Coco amine	61791-14-8	
2-Propyn-1-olcompound with methyloxirane	38172-91-7	

LOCATION COORDINATES: ACTUES ROAD EMISANCE LATITUDE 32240424 LONGITUDE -80.744871 [BAD BB] LATITUDE 33240424 LONGITUDE -80.744885 [BAD STI 9 (LANGLINE B. 2020626) (UTV 225K [F METRO)

CENTROID OF PAR LANTHUR: 39 314587 LONGITUDE -80 722388 (TAD 83) ANTHUR: 30 314500 LONGITUDE: -80 725548 (TAD 87) N 4351783.51 E 52878.19 (UTW JONE 17 METERS)

10/31/2018

APPROVED

WVDEP OOG

GENERAL DESCRIPTION: THE ACCESS BOADES, AND WELL HAD ARE SHING CONSTRUCTED TO AID HE THE DEMELOPMENT OF HARDWOODLA MERCHALLS SHALE MAY MALE.

FLOODPLAIN NOTES:
THE PROPOSED SITE IS LOCATED WITHIN FEWA FLOOD MARK TO PER FEMA FLOOD WAR (SACREDULADO)

MISS_UTILITY_STATEMENT.

ANTHON RESOLUTIONS TO THE FOOTBOOK DISTRICT MESS UTILITY OF WEST VIRGINIA FOR THE LOCATION OF THE STATEMENT OF ADDITIONS PRODUCT OF THE PROJECT ORSIGN. TICHET 415-016-9478.

OF THE STATEMENT OF THE PROJECT OF THE START OF CONSTRUCTION FOR THE PROJECT. MATTER RESOLUTES CORPORATION VOLL OFFAIN AN EXCHANGING PERMIT FORM MM-1001 FROM THE WEST VERDING BEFARMENT OF TRANSPORTATION DURSING OF HIGHER'S THINK TO CONMINCEMENT OF CONSTRUCTION ACTURITIES

CONTROL AND ACTURES.

ENVIRONMENTAL NOTES.

STEAM AND RICLAND BRINGATIONS WERE PERFORMED IN JANUARY OCTORIES, A NOVEMBER 2018. IUI.

STEAM AND RICLAND BRINGATIONS WERE PERFORMED IN JANUARY OCTORIES, A NOVEMBER 2018. IUI.

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Stream and Impact Cause	Chiverti	Intets/Outlats Structures (UF)	Cofferdam E&S	Distance to	(LF)
Stream 74 (Access Hond 'E')	40	-11	6	17.	60

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6. SUBSURFACE INVESTIGATION OF THE PROPOSED FUE WAS PERFORMED BY PRINCEYIWANA SOIL & ROCK, Mr. ON PERROLING 13-02. BUT THE REPORT PREVAIGN BY PRINCEYIWANA SOIL & ROCK. PRINCEYIWANA SOCKWARDANTONS FORWARD IN BUTHER STORY WERE USED IN THE PREVAINTANA SOIL & HORK, MR. PLASHE REPER TO THE SUBSURFACE PRESIDENTIAL (BETTER BY PENNSYMANA SOIL & HORK, MR. FOR ADDITIONAL INFORMATION, AS MEEDING CHARLES K. CONPTON. II. – STRYRYING GOORDINATOR (S04) 7(8-8440)

MARK HUTSON - LAND AGENT CHAL (104) 169-4316

ENGINEER/SIGNEROR NATUS ENGINEERING DAT CYTHE S RUNT IN - PROJECT MANAGER, EVINISEER OFFICE (SHE) BES 4180 DESS (CAO) BES GETT

PNVHRONMENTAL AUSTRE COU DEX 101-PASS 1 WARE ENVIRONMENTAL SCIPNING (666) 215 2868 FEEL HIGH POR TAPT

GEOTECTINICAL FRANSYLVANA SOL & POCE, NG: CHIGSCOPHER % SAMIOS - PROJECT ENGINEER (412) 1878 - 4000 CEML (412) ASS DESS

PROJECT CONTACTS:

OPERATOR: ANTERO RESOLUCES COMPORATION FOR WHITE GARS DETE HERSELPORT, W. 26780 PHONE 1004 FA2 4100 FAX (1004) 648-4100

ION METHERS - CHERATIONS SUPERINTENDENT DEFICE (003) 157-6784 CELL (003) 000-3833

AADON KUNZLER - CONSTRUCTION SUPERVISION CELL (405) 227 8344

ROBERT S WIRKS - TIELD ENGINEER CYPICA (304) 842-4430 CELL (304) 827-7405

- RESTRICTIONS ROPES:

 1 THEFF ARE NO FREENIL STREAMS, WELLANDS, LAKES PONDS, OR RESERVOIRS WITHING CONTROL THE WELL FAD AND LOD.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEAT GY THE WELL PART AND LOD
- THEME ARE NO GROUNDWATER INTAKE OR PUBLIC MATER SHIPPLY FACILITIES WITHIN 1000 FEET OF THE WELL DAYS AND LOD
- THERE ARE NO APPARENT EXECUTES WATER WELLS ON SEVELOPED SPRINGS WIGHIN 250 PERT OF THE WELLS) DEING DEGLACE
- THERE ARE NO DECUPIED DWELLING STRUCTURES WITHIN 625 FERT OF THE CENTER OF THE WELL PAD
- THERE ARE NO AGRECULTURAL MUNICIPAL THAN 2,500 SOUARE PERF WITTIN 625 YEAR OF THE CENTER OF THE WELL PAD

REPRODUCTION NOTE:

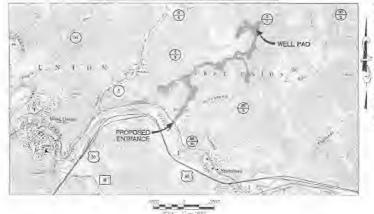
THESE PLANS WERE CREATED TO HE DISTRIBUTE SALETA (1881 B) PASSED DATA SEARCH SERVINGS AND TO THE TAILS OF PASSED

THESE TIMES WITH SENTER ORDER WAS ASSETTED AND AND REPRODUCTIONS IN GRAIN SCALL HIS POLOR WAS ASSETTED IN LESS OF DEPOSITION AND ALCOHOLOGY A

DEETS WELL PAD SITE DESIGN & CONSTRUCTION PLAN, **EROSION & SEDIMENT CONTROL PLANS**

WEST UNION DISTRICT, DODDRIDGE COUNTY COUNTY, WEST VIRGINIA NUTTER FORK-MIDDLE ISLAND CREEK WATERSHED

USGS 7.3 SMITHBURG & NEST UNION OUND MAPS



- PROPOSED SITE

THOSE AND SERVICE

WEST VIRGINIA COUNTY MAP-

DESIGN CERTIFICATION
THE DRAWNIGS, CONSTRUCTION, NOTES AND
THE CONSTRUCTION, OFFICE OF OIL
AND CASE THE SESSER

WYDO'L COUNTY ROAD MAP

MISS Chility of West Virginia 1 800 246 4840 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two husiness days before you dig in the state of West Virginia. IT'S THE LAW!

SHEET INDEX

- COVER SHEET 2 CONSTRUCTION AND EAS CONTROL NOTES

- 1 DOVER SHEET
 2 CONSTRUCTION AND EAST CONTROL NOTES
 3 LOSEN
 4 LOSEN
 5 LOSEN
 6 LOSEN DESTINATED DE DISTURBANCE BUEA (CC)

59	ACCESS	ROAD	Bo	ALC: T	PaD	REGI.	м
80 -	- STOCKIN	LE RE	CL	AMATIC	28 61	JAN	
GES!	10-GE536	GEG.	CI	INICAL	DET	AILS	

Total Site	
Acress Poad "B" (3 122")	13.45
Well Pad.	5.82
E wess/Topsoil Metenial Stockolles	18.86
Total Affected Area	41.13
Total Wooded Acres Distribed	40.55
largacts to Paul Amos Smith TM 8	36
Accress Road 18" (1.181")	4.50
WeitPad	3.30
Process/Tripso/ Material Stockpiles	6.97
Total Affected Area	16.57
Total Wooded Acres Elisturged	10/67
Impacts to George S. & Susan R. Wyceoff	TM B-JE-X
Access Read "B" (1.571")	6.55
ExceedTapacif Majerial Stackgroup	0.02
Total Affected Area	6.67
Total Wonded Acres Evenithed	6.00
Impasts in George 5, Wyseoff TM 12	443.1
Access Read "B" (0)	2.04
Total Affected Area	0.04
Total Wooded Arres Disturbed	0.03
incasts to Robert L. Halland TM 6	
Access Pond 'B" (374')	2.27
Except/Topsol Malenal Stockpiles	8.50
Total Affected Area	8.77
Total Wooded Acres Disluted	8.77
Impacts to Mary E. Deets & Luncia D. McArer	my SETM RESE
Access Russ (R) (V)	0.04
WellPad	3.40
Excess/Topical Malettal Stockpres	0.82
Total Affected Area	4.31
Total Wooded Arres Disturbed	4.31
Impacts to Shalls H. Haughi Till 8-	73
WeltPad	2.12
E-mess/Topsoil Material Stockpiles	2.14
Total Affected Area	4,29
Total Wooded Arres Disturbed	4.39
Impacts to Brian S. & Lisa Daro TMS	
Emass/Touriel Material Stockores	0.51
Total Affected Area	0.51
Total Wooded Acres Distribed	0.51

Day and	PAN NOT	William	THOM METERN	Mar #1 - Coto
- Mary - Green	Marie Land	MAKEE	ALC: T	
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S RING ENGINE

REYERL SRUPACE CONCINUATION	712/2010
REMETO PHELINE CHOSTAGS	1/23/2013
FIRM, PLAR UPDATES	1,05/2013
REVISION	DATE



TRIS DÉCUNENT VAS PREPARES POR ANTERO RESOURCES CORPORATION

DEETS WELL PAD COVER SHEET



DATE: 04/03/2017 SCALE AS SHOWN THEET I DF 60

