

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 1H

47-017-06875-00-00

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 1H

Farm Name: MARY E. DEETS AND/OR PAU

U.S. WELL NUMBER: 47-017-06875-00-00

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

API Number:	
•	
	12/21/2010

PERMIT CONDITIONS 470 1706875

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 the operator drill more than one hundred (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:		٠
	12/21/2018	-

PERMIT CONDITIONS 4701706875

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.

WW-6B (04/15)

API NO. 47-017 .		
OPERATOR WELL	NO.	Mondea Unit 1H
Well Pad Name:	Deets	Pad

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

1) Well Opera	tor: Antero	Resources	Corpora	494507062	017 - Dodd	West Up	Smithburg 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's	Well Number	: Mondeo L	Jnit 1H	Well P	ad Name: Deet	s Pad	
3) Farm Name	Surface Ow	ner: Mary E. De	ets and/or Paul	A. Smith Public R	oad Access: Old	I US-50	
4) Elevation, o	current ground	i: ~1422'	El	evation, propose	d post-constructi	ion: 1376'	
5) Well Type	(11) 0110	X	Oil _	Un	derground Stora	ge	
	Other	28.244					
	(b)If Gas	Shallow	X	Deep	7		
6) Existing Pa	d: Yes or No	Horizontal No	^	_			
7) Proposed Ta	arget Formati	on(s), Depth		•	and Expected Projected Projected Pressure- 2		
8) Proposed To	otal Vertical	Depth: 760	D' TVD				
9) Formation a	nt Total Vertic	cal Depth:	Marcellus	2.0			
10) Proposed	Total Measure	ed Depth:	19000' MI	D			
11) Proposed I	Horizontal Le	g Length:	10658'				
12) Approxima	ate Fresh Wat	ter Strata De	oths:	196', 221'			
13) Method to	Determine Fr	resh Water D	epths: C	Offset well records. D	epths have been ad	ljusted accord	ing to surface elevations.
14) Approxima	ate Saltwater	Depths: 13	81', 1843'	, 1966'			-
15) Approxima	ate Coal Sean	Depths: 5	83', 755',	891			
16) Approxima	ate Depth to I	Possible Voice	l (coal mi	ne, karst, other):	None Anticipa	ted	
17) Does Prop directly overly				ns Yes	No	X	
(a) If Yes, pro	ovide Mine I	nfo: Name:				F	RECEIVED
		Depth:				Office	of Oil and Gas
		Seam:					OCT 1 0 2018 —
		Owner					JCT 1 0 2010
		DAG					Department of mental Protection
		DAG 10/4	116				Page 1 of 3

4701712/21/2018

API NO. 47- 017

OPERATOR WELL NO. Mondeo Unit 1H
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#	19000'	19000'	4817 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE	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-HIPOZ & Tell - M	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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10/4/16

OCT 1 0 2018

OPERATOR WELL NO. Mondeo Unit 1H

Well Pad Name: Deets Pad

Describe proposed	well work, including	g the drilling and p	olugging 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
- 8.82 acres 22) Area to be disturbed for well pad only, less access road (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 to surface.

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, and as no control of the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and as no control of the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and as no control of the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and as no control of the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and as no control of the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and as no control of the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and as no control of the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and the surface casing shoe, trip to bottom, blowhole clean with air, trip out, and the surface casing shoe, trip to bottom, blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, and the surface casing shoe, trip to bottom, blowhole clean with a surface casing shoe, and the surface casing shoe cases and the surface cases and the surface cases and the surface case and the surf water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

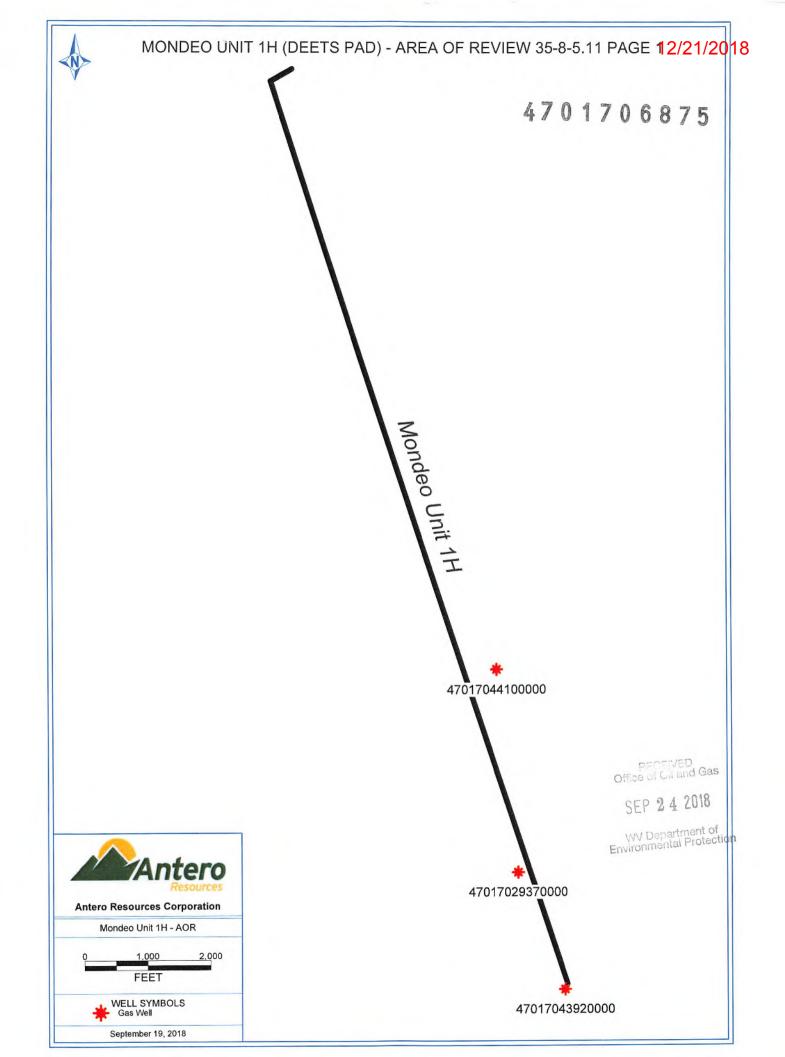
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls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

WV Department of

Environmental Protection

*Note: Attach additional sheets as needed.





MONDEO UNIT 1H (DEETS PAD) - AREA OF REVIEW 35-8-5.11 PAGE 2

UWI (APINum)	Weil Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47017044100000 JON	ES E LEE HEIRS ETAL MRS	2	KEY OIL COMPANY	KEY OIL INCORPORATED	5,086	2942 - 4942	Warren, Speechley, Balltown, Riley, Benson, Alexander	Weir, Fifth, Warren
47017029370000 STAT	TLER JOHN A	J-135	ENERGY CORP OF AMER	J & J ENTERPRISES	5,413	3313 - 5274	Warren, Riley, Benson, Alexander	Weir, Fifth, Warren
47017043920000 RITT	ER NEVA ETAL	1372	XTO ENERGY INC	TRIO PETROLEUM INC	5,614	3483 - 5438	Speechley, Benson, Alexander	Welr, Fifth, Warren

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WW-9 (4/16) 4701706875

API Number 47 - 017

Operator's Well No. Mondeo Unit 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

On and Name Antero Population Committee	OP Code 494507062
Particular Control of	
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle St	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well. Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: No pit will be used at this oils (Drilling and Flowback	Fluids will be stored in tanks. Cultings will be tanked and hauled off size.)
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_*UIC Permit	# will be provided on Form WR-34
Reuse (at API Number_Future permitted well locations when applica Off Site Disposal (Supply form WW-9 for disposal locati	
Off Site Disposal (Supply form WW-9 for disposal location of the Carlain of the C	Northwestern Landfill Permit #SWF-1025/ WV0109410
Will closed loop system be used? If so, describe: Yes, fluids stored in tanks, cuttings	removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater,	m brail Co
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Please See Attachment	
Orill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cutting	gs stored in lanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium will be used? (cement, lime	
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98)	, Northwestern Landfill (Permit # SWF-1025/WV0109410)
Permittee shall provide written notice to the Office of Oil and Gas of any load of dril West Virginia solid waste facility. The notice shall be provided within 24 hours of rewhere it was properly disposed.	ll cuttings or associated waste rejected at any ejection and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GEI on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of provisions of the permit are enforceable by law. Violations of any term or conditional law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am application form and all attachments thereto and that, based on my inquiry of obtaining the information, I believe that the information is true, accurate, and expenalties for submitting false information, including the possibility of fine or imprise	Environmental Protection. I understand that the on of the general permit and/or other applicable familiar with the information submitted on this those individuals immediately responsible for emplete. I am aware that there are significant
Company Official Signature	DECEIVED
Company Official (Typed Name) Gretchen Kohler	RECEIVED
Company Cincia (2) President	Office of Oil and Care
Company Official Title Senior Environmental & Regulatory Manager	Office of Oil and Gas
Company Official Title Senior Environmental & Regulatory Manager	OCT 1 0 2018
Company Official Title Senior Environmental & Regulatory Manager Subscribed and sworn before me this day of	

Operator's Well No. Mondeo Unit 1H

			At the best section of the section o			
Proposed Revegetation Treatmen	nt: Acres Disturbed 41.13	Prevegetation	рН			
Lime 2-4	_ Tons/acre or to correct to pH	6.5				
Fertilizer type Hay or st	traw or Wood Fiber (will be used	where needed)				
Fertilizer amount 500		os/acre				
Mulch 2-3	Tons/a	acre				
Access Road "B		s) + Excess/Topsoil Material Stockpiles (18.86 a	scres) = 41.13 Agres			
	See	d Mixtures				
Temp	orary	Perr	nanent			
Seed Type	lbs/acre	Seed Type	lbs/acre			
Annual Ryegrass	40	Crownvetch	10-15			
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 requi	ested by surface owner	*or type of grass seed requested by surface owner				
Plan Approved by:	7.5 topograpme sheet.					
Fian Approved by.	lan					
Comments:	lan					
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	l GM		RECEIVE			
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	Inspector	Date: 10 4168	Office of OH an			

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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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

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911 Address 1995 Smithton Road West Union, WV 26456

Well Site Safety Plan **Antero Resources**

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

> 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.

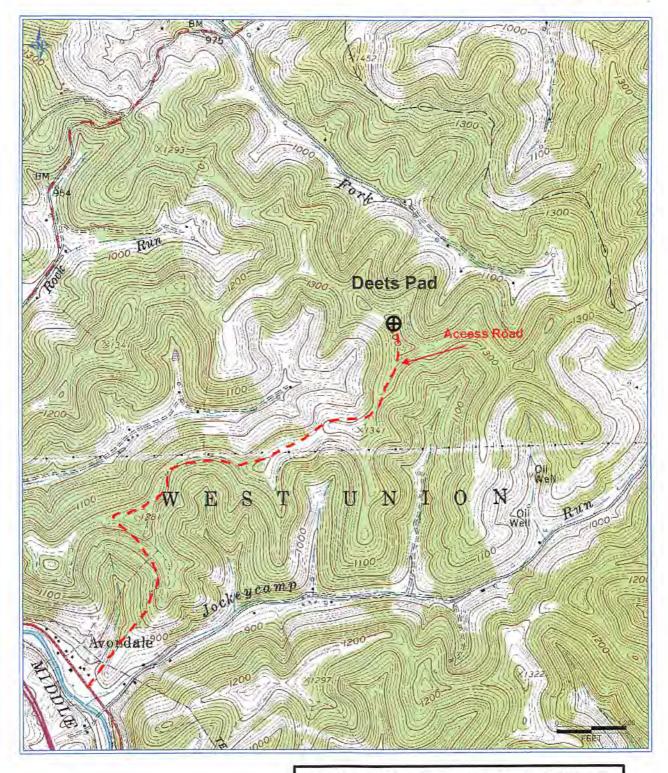
Alternate Route:

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 RECEIVED on past the Peggy June pad and the George Scott Pad to the Deets Pad.

Office of Oil and Gas

EMERGENCY (24 HOUR) CONTACT 1-800-878-4379 2018

DAF 10/4/18



Office of Lineard Gas

SEP 2 4 2018

Environmental Protection

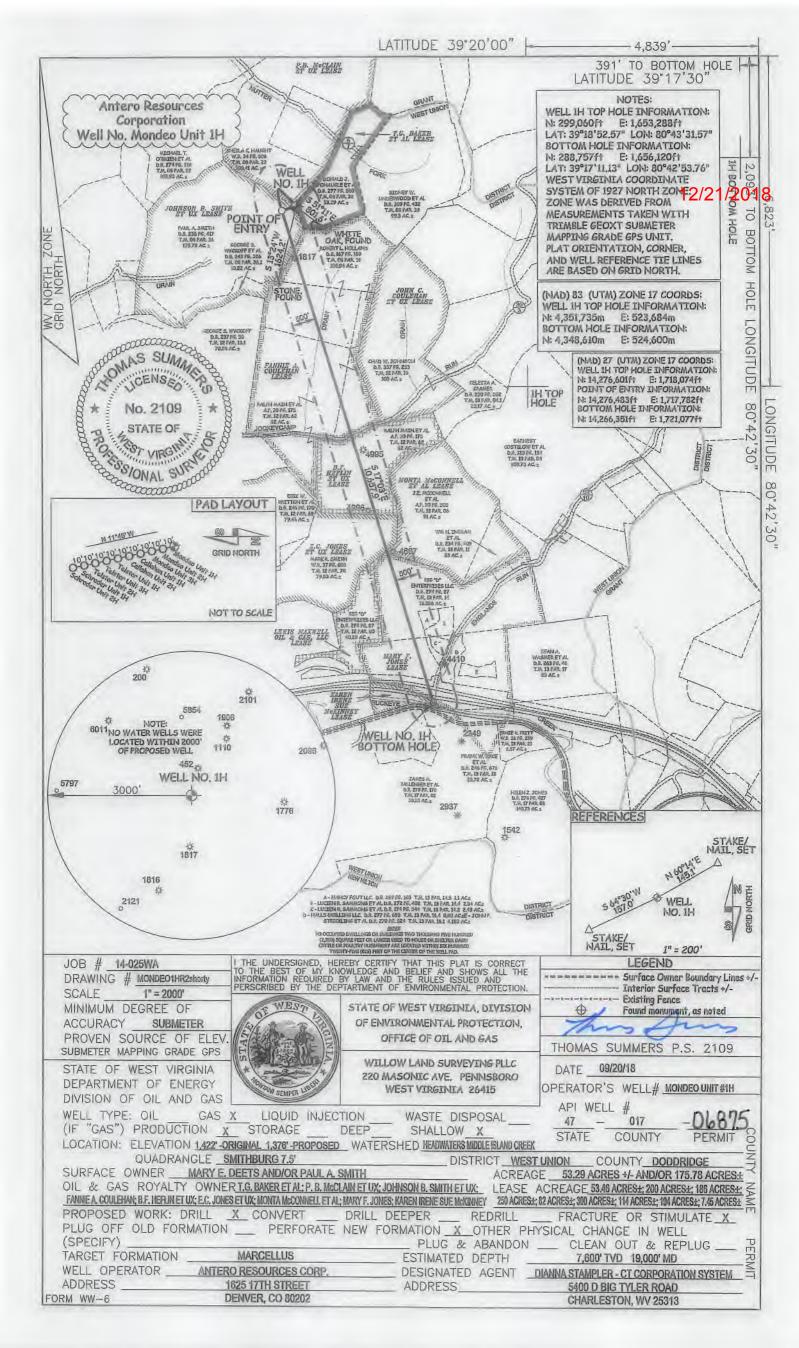
Antero Resources Corporation

Appalachian Basin Mondeo Unit 1H **Doddridge County**

Quadrangle: West Union Watershed: Middle Island Creek

District: West Union

Date: 3-20-2017



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
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	Dominion 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
E.C Jones, et ux Lease			
E.C. Jones, et ux	N.S. Snyder, et al	1/8	0018/0492
N.S. Snyder, et al	Carnegie Natural Gas Company	Assignment	Unrecorded
Carnegie Natural Gas Company	Carnegie Production Company	Assignment	0186/0061
Carnegie Production Company	Equitable Production- Eastern States, Inc.	Merger	PASOS
Equitable Production- Eastern States, Inc.	Equitable Production Company	Name Change	Unrecorded
Equitable Production Company	EQT Production Company	Name Change	0281/0346
EQT Production Company	Antero Resources Corporation	Assignment	0325/0539
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
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	Antero Resources Corporation	Name Change	Exhibit 1

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^{*}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 (5/13)

Operator's Well No.	Mondeo Unit	IH
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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:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Karen Irene Sue McKinney Lea	ise			
Kar	en Irene Sue McKinney	Antero Resources Corporation	1/8	0431/0030

*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.

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> > SEP 2 4 2018

W/ Densitment of Environmental Protection

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

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

FORM WW-6A1 EXHIBIT 1

Natalle E. Tennant.

FILE ONE ORIGINAL (Two if you want a Med

stamped copy returned to you)

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

FEE: \$25:00

FILED

INTH

JUN 1 0 2013

Penney Barker, Manager
IN THE OFFICE OF Corporations Division
ECRETARY OF STATE Tel: (304)558-8080
Fax: (304)558-8381

Webaite: www.wvsos.com
E-mail: business@wvsos.com

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

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

**** 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:

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)	
	ā - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	
6.	Name and phone number of contact person. (the filing, listing a contact person and phone nur document.)	This is optional, however, if there is a problem with nber may avoid having to return or reject the
	Alvyn A. Schopp	(303) 367-7310
	Contact Name	Phone Number
7.	Signature information (See below *Important.	
	Print Name of Signer: Akyn A. Schopp	Title/Capsolty: Authorized Person
	Signature: 42 House	Date: June 10, 2013
Any	supertant Legal Notice Repartitus Standurg: For West Virgi person who signs a document he or she knows is faise in an ne secretary of state for filing is guilty of a misdemeaner and mand dollars or confined in the county or regions! jail not ma	inia Code <u>531D-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 are than one or bolk.

WV011 - 0446/2011 Webin Kkmrr Odlice

Office of Cit and Gas

SEP 2 4 2018

FORM WW-6A1 EXHIBIT 2, Page 1

BOOK 512 MGE 781.

ARTICLES OF MERGER Of KENTUCKY WEST VIRGINIA GAS COMPANY

a West Virginia Company

Into

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

EQT 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 Kentucky 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, Equitans 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 liabilities of Equitans and Kentucky West in accordance 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.

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SEP 2 4 2018

FORM WW-6A1 EXHIBIT 2, Page 2

BOOK 512 PAGE 782

3043570551

 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:

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
		and and and led or	n Sentember 1, 1995

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.

EQT CAPITAL CORPORATION

Its President

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SEP 2:4 2018



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 1H

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 1H 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 1H 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

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

	The state of the s	API No. 47- 0		-	
			Operator's Well No. Mondeo Unit 1H		
		Well Pad Nam	e: Deets Pad		
Notice has l	been given:				
		§ 22-6A, the Operator has provided the require	ed parties with the Notice Form	s listed	
below for the	tract of land as follows:				
State:	West Virginia	TITALNIAID 02	3684m		
County:	Doddridge	Northing: 43	51735m		
District:	West Union		D US-50		
Quadrangle:	Smithburg 7.5'	Generally used farm name: Ma	ry E. Deets and/or Paul A. Smith		
Watershed:	Headwaters Middle Island Creek				
it has provid information r of giving the requirements Virginia Cod	ed the owners of the surface described by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen (c)	shall contain the following information: (14) A libed in subdivisions (1), (2) and (4), subsective ection sixteen of this article; (ii) that the requirement urvey pursuant to subsection (a), section tends this article were waived in writing by the tender proof of and certify to the secretary than the content of this article.	on (b), section ten of this arti- rement was deemed satisfied as of this article six-a; or (iii) the surface owner; and Pursuant	icle, the a result of the a re	
	West Virginia Code § 22-6A, the O erator has properly served the require	perator has attached proof to this Notice Certi	fication		
	ECK ALL THAT APPLY	ed parties with the following.	OOG OFFICE U	SE	
*PLEASE CH	ECK ALL THAT APPLY	NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED	ONLY ENO RECEIVED/		
*PLEASE CH	ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE	ONLY RECEIVED/ NOT REQUIR		
*PLEASE CHI	ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED VEY or ■ NO PLAT SURVEY WAS CONT	ONLY RECEIVED/ NOT REQUIR DUCTED RECEIVED/	RED	
*PLEASE CHI	ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SUR	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED VEY or ■ NO PLAT SURVEY WAS CONI □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY	ONLY RECEIVED/ NOT REQUIF	RED	
*PLEASE CHI 1. NO 2. NO 3. NO	ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SUR	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED VEY or ■ NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or □ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	ONLY RECEIVED/ NOT REQUIF	RED	
*PLEASE CHI 1. NO 2. NO 3. NO	ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SUR' TICE OF INTENT TO DRILL or	■ NOTICE NOT REQUIRED BECAUSE SEISMIC ACTIVITY WAS CONDUCTED VEY or ■ NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or □ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	ONLY ENO RECEIVED/ NOT REQUIF	RED	

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.

Its:

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

By: Kevin Kilstrom

Senior VP of Production

Telephone: 303-357-7310

Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 303-357-7315

Email: kcox@anteroresources.com

改英副体を数多EAL NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184014160

MY COMMISSION EXPIRES MARCH 29, 2022

Subscribed and sworn before me this _____ day of

Notary Public

My Commission Expires 3

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.

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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:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
T.G. Baker et al Lease			
T.G. Baker et al	J.D. Foley	1/8	0044/0483
J.D. Foley	Delta Petroleum Company	Assignment	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
P.B McClain et ux Lease			
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	0302/0123
Equitrans, I.P.	Equitable Production-Eastern States, Inc.	Assignment	0192/0019
Equitable Production-Eastern States, Inc.	EQT Production Company	Name Change	0281/0346
EQT Production Company	Antero Resources Cornoration RECE	EIVED Assignment	0325/0539
EQ1 Floatetion company	Office of O	il and Gas	0323,0333
Johnson B. Smith et ux Lease	SEP 2	4 2018	
Johnson B. Smith, et ux	Eastern Oil Company	1/8	0022/0231
Eastern Oil Company	A.W. Stevens WV Done	descent of Assignment	0042/0328
A.W. Stevens	Environment Environment	al Protection 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 0154/0475
Equitable Gas Company Equitrans, Inc.	Equitrans, Inc. EQT Capital Corporation	Assignment Name Change	Exhibit 2
EQT Capital Corporation	Antero Resources Corporation	Assignment	0325/0528
Eq. capital corporation	Allielo Resources corporation	A33/Billion	0000,0000
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	0042/0328
A.W. Stevenson	Eastern Union Gas Company	Assignment	0042/0330
Eastern Union Gas Company	Pittsburgh & W.VA Gas Company	Assignment	0085/0334
Pittsburgh & W.VA Gas Company	Equitable Gas Company	As s ignment	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	0281/0346
EQT Production Co.	Antero Resources Corporation	Change Assignment	0325/0539

API NO. 47- 017 - 12/21/2018
OPERATOR WELL NO. Mondeo Unit 1H
Well Pad Name: Deets Pad

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

Noti	ce Time Requirement: notice shal	l be provided no later than	n the filing date of permit application.	
	e of Notice: 9/21/2018 Date Permit ce of:	Application Filed: 9/21/2	2018	
7	PERMIT FOR ANY WELL WORK	CERTIFICATE OF APPI CONSTRUCTION OF A	ROVAL FOR THE IN IMPOUNDMENT OR PIT	
Deli	very method pursuant to West Vi	rginia Code § 22-6A-10((b)	
	PERSONAL REGISTE	ERED METHO	OD OF DELIVERY THAT REQUIRES A	
	SERVICE MAIL	RECEI	PT OR SIGNATURE CONFIRMATION	
certification ce	ficate of approval for the construction tered mail or by any method of delivered mail or by any method of delivered mail or by any method of delivered to the tract on which the well and gas leasehold being developed by ribed in the erosion and sediment contator or lessee, in the event the tract of the coal seams; (4) The owners of recort work, if the surface tract is to be used to a water well, spring or water supply ide water for consumption by humans osed well work activity is to take placection (b) of this section hold interest reds of the sheriff required to be maint ision of this article to the contrary, not a purveyor or surface owner subject to	or of an impoundment or pitery that requires a receipt of seven of this article, and this or is proposed to be located the proposed well work, if strol plan submitted pursual fland on which the well produced the surface tract or tracted for the placement, construction nine of this article; (5) A source located within one to so or domestic animals; and the ce. (c)(1) If more than three is in the lands, the applicant animal pursuant to section extracted to a lien holder is not at the operator shall also produced and water testing a section and water testing a section of the section and water testing a section and water testing a section and water testing a section of the section and water testing a section and water testin		ervice or by erosion and wners of record of cts overlying the isturbance as the coal owner, erlain by one or I by the proposed donment of any the applicant to I which is used to the without the escribed in escribed in the withstanding any downer. W. Va.
	• •	ce ME&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
	JRFACE OWNER(s) ne: Please see attachment		COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Add			Address:	
Nam	ne:		COAL OPERATOR	
	ress:		Name: NO DECLARATIONS ON RECORD WITH COUNTY	
EI SI	JRFACE OWNER(s) (Road and/or	Other Dicturbance)	Address:	
	DE: PLEASE SEE ATTACHMENT	Other Disturbance)	□WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,	
	ress:		SPRING OR OTHER WATER SUPPLY SOURCE	
			Name: NONE IDENTIFIED WITHIN 1,500	
Nam	ne:		Address:	
Aud	ress:		OPERATOR OF ANY NATURAL GAS STORA	GE FIELD
	JRFACE OWNER(s) (Impoundment	nts or Pits)	Name:	
Nam	ne:		Address:	
Add	ress:		*Please attach additional forms if necessary	
	 -	<u> </u>	•	RECEIVED

SEP 2 4 2018

RECEIVED Office of Dilland Gas

SEP 2 4 2018

API NO. 47-017470112/201875

OPERATOR WELL NO. Mondeo Unit 1H

Well Pad Name: Deets Pad

VAVID attract of Environmental frotection

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. 47-617 0 17 0 628/2058

OPERATOR WELL NO. Mondeo Unit 1H

Well Red Name: Dotte Red

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:

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

Office of Oil and Gas SEP 2 4 2018

WV Department of Environmental Protection

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 - 17 0 6 8 7 5 8 OPERATOR WELL NO. Mondeo Unit 1H 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.

Office of Ciliand Gas

SEP 2 4 2018

W/ Department of Environmentary recedion

OPERATOR WELL NO. Mon 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 21 day of 500.

Notary Public

RECEIVED Office of Oil and Gas

SEP 2 4 2018

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 \$5032

TM 8 PCL 38

Owner: Address: Mary Ellene Deets 5528 Pepperidge Rd

Clinton, OH 44216

Owner:

Donald J. Sponaugle,

c/o Lennie McKinney II

Address:

5528 Pepperidge Rd

Clinton, OH 44216

Owner:

Carol Lynn Liston

Address:

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. Turkeyfoot Lake Road

Akron, OH 44319

Owner:

Eva Mae Starcher

Address:

1504 1st Street

Lakemore, OH 44250

Owner: Address: Wyonne Sue Bates 168 Evergreen Crcle

Akron, OH 44301

Owner:

Twilia Jo Radcliffe

Address:

84605 McGill Road

Tippecanoe, OH 44699

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12/21/2018

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

Owner:
Address:

Robert L. Holland 225 Watchung Fork

Westfield, NJ 07090

TM 8 PCL 36.1

Owner:

George S and Susan R Wycoff

Address:

PO Box 102

Smithburg, WV 26436

TM 12 PCL 13.1

Owner: Address:

George S. Wyckoff

PO Box 102

Smithburg, WV 26436

TM 8 PCL 38

Owner: Address: Mary Ellene Deets 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

TM 8 PCL 38 cont.

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

TM 8 PCL 23

Owner:

Sheila K. Haught

Address:

825 Johnson Williams Hollow Rd

West Union, WV 26456

TM 8 PCL 23.1

Owner:

Brian S and Lisa Daro

Address:

346 Johnson Williams Hollow Rd

West Union, WV 26456

TM 8 PCL 36

Owner:

Paul Amos Smith Jr

Address:

140 Belvue Dr

Los Gatos, CA 95032

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SEP 2 4 2018

WW-6A4 (1/12)

Operator Well No. More 2/2/21/2018
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.

Notice Time Date of Notic	Requirement: Notice shall be provided a ce: 09/05/2018 Date Pe	at least TEN (10) days prior to filing a rmit Application Filed: 09/21/2018	permit application.
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		OUESTED	
receipt request drilling a hor of this subsection management	sted or hand delivery, give the surface ow izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provide	ner notice of its intent to enter upon the pursuant to subsection (a), section to do to the surface owner: <i>Provided, howerer</i> . The notice, if required, shall incl	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this hade the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE OV		
Nomes PIFA	SE SEE ATTACHMENT	Name:	
		Address:	
Notice is he Pursuant to V the surface ov	Vest Virginia Code § 22-6A-16(b), notice when's land for the purpose of drilling a h	is hereby given that the undersigned orizontal well on the tract of land as for	
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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 County Gas

TM 8 PCL 23 TM 8 PCL 36 TM 8 PCL 38

WW-6A4 Notice of Intent to Drill Attachment:

Surface Owners:

Tax Parcel ID: 8-8-23

Owner:

Sheila K Haught

Address:

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 Ellene Deets / 5528 Pepperidge Rd

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

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

Address:

100 Shayne Lane

10665 Market Avenue N

Latrobe, PA 15650

A 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

Owner: Address: Twilia Jo Radcliffe 84605 McGill Road

Tippecanoe, OH 44699

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WW-6A5 (1/12)

Operator Well No. Managara 1/2018

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

Notice Time Date of Noti	Requirement: notice shall	be provided no Date Permit Au	plater than the filing da oplication Filed: 09/21/20	te of permit	application.	Office of Hand Gas
						SEP 2 4 2018
Delivery me	thod pursuant to West Vi	rginia Code § 2	22-0A-10(C)			
■ CERT	FIED MAIL		HAND			WV De unit of Environments Protect
RETU	RN RECEIPT REQUESTE	D	DELIVERY			
return receip the planned required to b drilling of a damages to t (d) The notic of notice.	W. Va. Code § 22-6A-16(c t requested or hand delivery operation. The notice reque e provided by subsection (b horizontal well; and (3) A ne surface affected by oil ar es required by this section services reby provided to the SURI as listed in the records of the	r, give the surfa nired by this su), section ten of proposed surfa and gas operation shall be given to	the cowner whose land we absection shall include: If this article to a surface and compensations to the extent the dame to the surface owner at the surface owner at the compensation of the surface owner at the surface o	(1) A copy cowner whose on agreementages are comp	or the drilling of a of this code sec e land will be us t containing an opensable under a	a horizontal well notice of stion; (2) The information sed in conjunction with the offer of compensation for rticle six-b of this chapter.
Name: PLEAS: Address:	E SEE ATTACHMENT		Name:Address: _			
Name: PLEASI Address: Notice is her Pursuant to V operation or	reby given: Vest Virginia Code § 22-6A the surface owner's land for		Address:s hereby given that the	undersigned v	ct of land as follo	
Name: PLEAS! Address: Notice is her Pursuant to V operation or State:	reby given: Vest Virginia Code § 22-6A the surface owner's land fo		Address:s hereby given that the of drilling a horizontal v	undersigned vell on the tra Easting:	ct of land as follo 523684m	
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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.

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:

Eva Mae Starcher 1504 1st Street

Address:

Lakemore, OH 44250

Owner: Address:

Wyonne Sue Bates 168 Evergreen Circle

Akron, OH 44301

Owner:

Twilia Jo Radcliffe

Address:

84605 McGill Road

Tippecanoe, OH 44699

RECEIVED
Office of Oil and Gas

SEP 2 4 2018



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 1H Well Site

RECEIVED Office of Oil and Gas

SEP 2 4 2018

WV Department 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 12/21/2018 Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)	
Fresh Water	7732-18-5	1
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	1
Ammonium Persulfate	7727-54-0	1
Anionic copolymer	Proprietary	
Anionic polymer	Proprietary	1
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9	1
Cellulase enzyme	Proprietary	1
Demulsifier Base	Proprietary	1
Ethoxylated alcohol blend	Mixture	1
Ethoxylated Nonylphenol	68412-54-4	1
Ethoxylated oleylamine	26635-93-8	1
Ethylene Glycol	107-21-1	1
Glycol Ethers	111-76-2	1
Guar gum	9000-30-0	1
Hydrogen Chloride	7647-01-0	1
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	1
Isopropyl alcohol	67-63-0	1
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2	1
Microparticle	Proprietary	1
Petroleum Distillates (BTEX Below Detect)	64742-47-8	
Polyacrylamide	57-55-6	1
Propargyl Alcohol	107-19-7	1
Propylene Glycol	57-55-6	1
Quartz	14808-60-7	1
Sillica, crystalline quartz	7631-86-9	
Sodium Chloride	7647-14-5 Office	ECEIVED of Oil and Gas
Sodium Hydroxide	1310-73-2	
Sugar	57-50-1	2 4 2018
Surfactant	68439-51-0 WV (epartment of
Suspending agent (solid)	14808-60-7 Environi	antal Protection
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester	67784-80-9	
Copolymer of Maleic and Acrylic Acid	52255-49-9	
DETA phosphonate	15827-60-8	1
Hexamthylene Triamine Penta	34690-00-1	
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:
ACCESS ROAD ENTRANCE
LATTIONE: PET/TASK LOSGIFIED: PRE/TASK LOSGIFIED:
LATTIONE: RESPECTA LONGIFIED: - PRE/TASK CAAD 275
N 1438BLIAN E 7622268628 (CTV 2008) T PARTY

CENTROID OF PAD LATTUDE 18 HARRY LONGTHOR: HOTESSEE (NAD 89) LATTUDE 30 314503 LONGTHOR: HOTESSAE (NAD 27) HADDITASSE S 38287516 (LIN ZONE 17 MERRES)

APPROVED WVDEP OOG 10 / 31 / 2018

CHARLES B. COMPTON, III - SURVEYING COORDINATOR

ENGINEER/SHEWEYOR, NATUS ENGINEERING, INC. CYBUS 3 RUSH FR PROJECT MANAGER ENGINEER OFFICE (000) 002-0105 CELL 13(3) 000 0747

ENVIRONMENTAL: ALISTAR RUBLEST LLC RYAN L WARD EXPRONMENTAL SCHEMIST (968) 819 2868 SELL (001) 805 7477

CENTENNICAL PERSYLVANIA DDL & HODE INC CORRESPONDE N SAMOS - PROJECT ENGINEER (4)21 875 4000 FELL (4)2) 500 DDGS

GENERAL DESCRIPTION

THE ACCESS BOAD(S) AND WELL PAR ARE BEING CONSTRUCTED TO ARR BY THE DEVELOPMENT OF THE DE

PLOUDPLAIN NOTES:
THE PROPOSED SITE IS LOCATED WITHIN HEMA FLOOD ZONE N. PER FEMA FLOOD MAN HEADINGSHAPE

MISS LUTHLITY STATEMENT AND STATEMENT OF SET VIRGING FOR THE LOCATION OF SET VIRGING FOR THE SET V

ENTRANCE PERMIT

AMPINED REPORTED EXPROPARION VILL OBTAIN AN EXCEDARMENT FERMIT FORM MY 1007 FROM THE WEST VINDINA DISTARTMENT OF TRANSPORTATION DIVISION OF HIGHWARDS, FRIDE TO COMMENCEMENT OF CONSTRUCTION ACTURINES.

PROSERVATION ACTIVITIES

ENVIRONMENTAL NOTES:
STRAM AND SETLAND DELINEATION WERE PREFORMED IN JAMMANT OCTUBES & NOVEMBER 2014, OUL.
STRAM AND SETLAND DELINEATION WERE PREFORMED IN JAMMANT OCTUBES & NOVEMBER 2014, OUL.
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Stream and Impact Cause	Fit (LF)	WHITE/Guttates	Contract (LF)	Distance to	(LF)
Stream 24 (Access Road 'E')	- 40	11		AC.	- 2h

GEOTECHNICAL NOTES:
THE PROPOSED ACESS ROAD CTT SLOPE (1.5.1) SHALL HE FIELD VEHIFIED BY A CERTITIO
GEOTECHNICAL SINCHETE TO EVISION. THE PROPOSED SLOPES ARE ADEQUATE PRICE TO
CONSTRUCTION. ACCESS ROAD CONSTRUCTION SHALL HE MONITORIE HE A REPRESENTATIVE OF THE
GEOTECHNICAL SHORMER OR PROJECT HERBEY MERRINGED DISPOSED (PASSIBLED).

A TOTALISMENTE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY PENASCHARMA SHILL A HOUSE OF THE PROPOSED PREVAILED BY PENASCHARMA SHILL A HOUSE OF THE PROPOSED PROPOSED SHAWN OF THE PROPOSED SHA

PROJECT CONTACTS:

OPERATOR: ANTERO RESOURCES CORPORATION 525 WHITE OAKS BUTE. PRODUCTORY, MY 202210 PHONE (304) 042-4100 FAX 1304) 842-4100

EL WAGONER ENSTROPMENTAL ENGINEER GRF10E: (204) 842-4088 CELL (1884) 176 8170

JBN MCTYERS - OPERATIONS SUPERINTENDENT OFFICE: (808) 347-8700 CKIE: (803) 000-2420

MAKEN KONZLER - CONSCRIPTION SUPPRISIDE

BOUERT B WIERS FIELD ENGINEER OFFICE: (904) 042-4100 CHIL 13041 927-7405

RESTRICTIONS NOTES:

1 THEN ARE DO PERSONAL STREAMS METIANDS, LAWS: FORKE OF DESERVOIRS WITHOUT THE THE PROPERTY OF THE WILL FAD AND 100.

THERE ARE NO NATURALLY PRODUCING INDUT STREAMS WITHIN DOD EXET OF THE WELL THAN AND LOD

THERE ARE NO COMMUNICATED DITAKE OR FURNIC WATER SUPPLY FAMILITIES WITHIN 1000-THET OF THE WELL PAR AND LOB

THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPING SPRINGS WITHIN 250 FERT OF THE WELLIST BEING BRILLED

THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN GZI. FRED OF THE CENTER OF THE WELL PAD

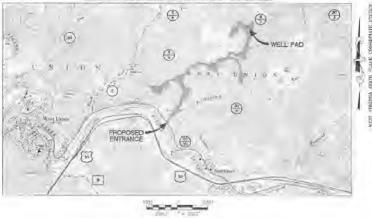
THERE ARE NO ASSESSED FURNIL PURDINGS LARGER THAN 2,500 SQUARE FERT WITHIN 825 FEET OF THE CENTER OF THE WELL FAD.

REPRODUCTION NOTE

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 75 SMITHBURG & WEST UNION DUAD MAPS



WEST VIRGINIA COUNTY WAR



INDT TO SOULE:

DESIGN CERTIFICATION FORES, AND THE DRAWINGS, CONSTRUCTION ROTES, AND SOFTERNOR GOARDANG ATTACHED HERETO HAVE BEEN PRESENDEN WITH PRESENDENCY WITH PRESENTED PROSENCE WITH PRESENCE WITH PRESENTED PROSENCE WITH PROSENCE WITH PROSENCE WITH PROSENCE WITH PRESENTED PROSENCE WITH PROSENCE WI

WYDDH COUNTY ROAD MAP

MISS Utility of West Virginia 1 AUD 245 4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia IT'S THE LAW!!

SHEET INDEX

1 - CONFE SHAFT
2 - CONSTRUCTION AND PASS CONTROL NOTES
4 MICHAEL STARTTES
5 MICHAEL STARTTES
6 MICHAEL STAR COVER SHEET CONSTRUCTION AND EAST CONTROL NOTES

DEETS LANTS OF DISTUPBIONICE AR	ENTINE
TotalSite	
Access Rand 'B' (3.152)	13.45
Wel Pad	5 62
Excess/Topsoil Material Stecknilles	18 86
Fotal Affected Area	41.13
Total Wooded Ages Dishaped	40.55
Impacts to Faut Arre & Smart 1M 1	-DE
Access Road B: (1.187)	4,50
WelPed	3,30
Excess/Topsoli Minten M.Stockorles	B 87
Total Affected Area	16.67
Tabil Wooded Ages Districted	18.67
Impacts to George 5: & Susrn R: Wyckof	F.DC-BMIT
Access Road B" (1,571')	E.59
Excess/Topical Material Stackpilles	0.05
Frital Affected Area	6.57
Total Wonderd Agree Disturbed	B.00
Impacts to George S. Weckoff Tra 17	2.93.1
Annes Rind 'B' (6)	D.04
Total Affected Area	0.04
Total Wooden Agres Testimen	0.03
impacts to Righard L. Holland TM &	-51
ACCINES ROBO B (374)	2.27
Evenss/Topea/Material Strockpiles	5.50
Total Affected Area	B.77
Tatal Wooded Acres Disturbed	8.77
pacts to Mary E. Dreits & Lacroin D. Moking	ngy in The 8-38
Access Board 181 (01)	D 09

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Impacts to Shake K. Hunget TM 9-23

cal Whedert Ames Disturbed frequents via Brian S. 3 Lise Duro TM 8-23

Total Affected Area

Topicil Mitteria: Stocko Total Affected Area

S ENGINEERING



THIS DOCUMENT WAS PREPARED FOR ASTERN RESOLUTION CORPORATION

DEETS WELL PAD

COVER



SCALE AS SHOWN

