

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

Wednesday, December 26, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for TELESTAR UNIT 2H 47-017-06881-00-00

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: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 12/26/2018

Promoting a healthy environment.

API Number:

PERMIT CONDITIONS 47017426/8081

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. <u>Failure to adhere to the specified permit</u> 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 (20) feet of casing below the bottom of the void or install less than twenty
- 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 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 owner upon agreement of the parties. In lieu of plugging, the operator may transfer the well to the surface well shall be flow tested by the operator upon request of the drinking well owner prior to operating 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:

PERMIT CONDITIONS 4701 706881

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, sending an email to DEPOOGNotify@wv.gov.

47017012/88/2018

WW-6B (04/15)

API NO. 47- 017

OPERATOR WELL NO. Telstar Unit 2H 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	ator: Antero R	esources	Corporat	494507062	017 - Dodd	dri West Up	Smithburg 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's	Well Number:	Telstar Ur	nit 2H	Well H	ad Name: Dee	ets Pad	
3) Farm Name	e/Surface Owne	T: Mary E. Dee	ets and/or Paul .	A. Smith Public R	oad Access: O	Id US-50	
4) Elevation, o	current ground:	1422'	Ele	evation, propose	d post-constru	ction. 1376'	
5) Well Type	(a) Gas X Other		_ Oil	Ur	derground Stor	rage	
	(b)If Gas S	hallow	х	Deep			
	H	Iorizontal	Х				
6) Existing Pa	d: Yes or No 📐	lo	-		_		
				pated Thickness ss- 55 feet, Asso			
8) Proposed T	otal Vertical De	pth: 7600	D' TVD				
9) Formation a	at Total Vertical	Depth: N	Marcellus		-		
10) Proposed 7	Fotal Measured	Depth: 1	18000' ME	0			
11) Proposed I	Horizontal Leg I	Length: 9	485'				
12) Approxim	ate Fresh Water	Strata Dep	oths:	196', 221'			
13) Method to	Determine Fres	h Water D	epths: O	ffset well records. D	epths have been	adjusted accord	ing to surface elevations.
14) Approxima	ate Saltwater De	pths: 13	81', 1843',	1966'			
15) Approxima	ate Coal Seam I	Depths: 58	33', 755', 1	891			
16) Approxim	ate Depth to Pos	sible Void	(coal min	ne, karst, other):	None Anticip	REC.	EIVED
17) Does Prop	osed well location	on contain	coal seam				1 0 2018
(a) If Yes, pro	ovide Mine Info	: Name:				WV Dep	partment of
		Depth:			E	Environme	ntal Protection
		Seam:					
		Owner:	-				
			-				
		DA	E				
		PPI	In				
		1010	1114				

Page 1 of 3

47017018/28/2018

API NO. 47- 017

OPERATOR WELL NO. Telstar Unit 2H Well Pad Name: Deets Pad

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	<u>Size</u> (in)	<u>New</u> or <u>Used</u>	Grade	<u>Weight per ft.</u> (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		1					
Production	5-1/2"	New	P-110	20#	18000'	18000'	4542 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

TYPE	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	
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 & Tal) - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	Office of Oil and Gas
Sizes:	N/A	OCT 1 0 2018
Depths Set:	N/A	WV Department of

Environmental Protection

10/4/18 DAF

Page 2 of 3

WW-6B (10/14)

OPERATOR WELL NO. Telstar Unit 2H Well Pad Name: Deets Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

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 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

RECEIVED	25) Proposed borehole conditioning procedures:
s fresh water. e, trip to bottom, blowhole clean with air, trip out, run casing, circulate nine canacity + 40 bbls	Conductor: blowhole clean with air, run casing, 10 bbls fresh water. Surface: blowhole clean with air, trip to conductor shoe, trip to botto fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water s
hiddle of lateral, circulate, pump high viscosity sweep, tribtobad विविधारहे।pymp, ump high viscosity sweep, trip out, run casing, circulate) क्रिकि सिंहर्भ water, pump is mud flush and 10 bbls water.	Production: circulate with 14 lb/gal NaCl mud, trip to middle of latera sweep, trip to top of curve, trip to bottom, circulate, pump high visco barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush a

*Note: Attach additional sheets as needed.

DAF



47017<u>0</u>882818

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

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf d
47017043720000	SCRIPPS ETAL	6	ALLIANCE PETR CORP	DAC CORP	5,330'	3590 - 5174	Riley, Benson	Weir, Fifth, Warren, Alexander

RECEIVED Office of Oil and Gas

SEP 2 4 2018

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

$\begin{array}{r} 12/28/2018\\ 4\,7\,0\,1\,7\,0\,6\,8\,8\,1\end{array}$

	API Number 47 - 017 -
	Operator's Well No. Telstar Unit 2H
STATE OF WE	ST VIRGINIA
DEPARTMENT OF ENVIRO	DNMENTAL PROTECTION
OFFICE OF (DIL AND GAS
FLUIDS/ CUTTINGS DISPOS	AL & RECLAMATION PLAN

Company Official Signature	WV Department of nvironmental Protection
Company Official SignatureCompany Official (Typed Name) Gretchen Kohler E Company Official Title Senlor Environmental & Regulatory Manager Subscribed and sworn before me this day of, 20	WV Department of nvironmental Protection
Company Official Signature	WV Department of
Company Official Signature	WV Department of
Company Official Signature	
A CONTRACT OF A	UCT 1 0 2018
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the p where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental I provisions of the permit are enforceable by law. Violations of any term or condition of the genera law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the application form and all attachments thereto and that, based on my inquiry of those individua obtaining the information, I believe that the information is true, accurate, and complete. I am a penalties for submitting false information, including the possibility of fine or imprisonment.	POLLUTION PERMIT issued rotection. I understand that the permit and/or other applicable information submitted on this is immediately responsible Gas
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or asso	ciated waste rejected at any
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Drill cuttings stored in tanks, re	moved offsite and taken to landfill
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Additives to be used in drilling medium? Please See Attachment	
Driling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	withetic based mud.
	iurface - Alt/Freshwater, Intermediate -
WV0109410	Landfill Permit #SWF-1025/
Land Application Underground Injection (UIC Permit Number_*UIC Permit # will be provided Reuse (at API Number_Future permitted well locations when applicable. API# will be prov	(ded on Form WR-34)
Proposed Disposal Method For Treated Pit Wastes:	
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? N/A	
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanka	Cuttings will be lanked and hauled off site.)
Will a pit be used? Yes No	No No
bo you anticipate using more than 5,000 bbis of water to complete the proposed well work? Yes_	
Watershed (HUC 10) Headwaters Middle Island Creek Quadrangle Smithburg 7.5' Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _	

Operator's Well No. Telstar Unit 2H

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 ______ 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 40 Crownvetch 10-15 Field Bromegrass 40 Tall Fescue 30 See attached Table IV-3 for additional sead 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 ($L \times W \times D$) of the pit, and dimensions ($L \times W$), 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
	OUT 1 0 2018
Title: Dilt bay Inspector	Date: LOGGIS

12/28/2018 4701706881

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 RECEIVED Office of Oil and Gas

SEP 2 4 2018

WV Department of Environmental Protection

12/28/2018

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	
10	Drilling Detergent – Surfactant	
19.	Terra-Rate	
20	Organic Surfactant Blend	
20.	W.O. Defoam Alcohol-Based Defoamer	
21	Perma-Lose HT	
21.	Fluid Loss Reducer For Water-Based Muds	
22	Xan-Plex D	
22.	Polysaccharide Polymer – Drilling Fluid Viscosifier	
23	Walnut Shells	
20.	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	
22	Starch – Fluid Loss Reducer For Water Based Muds	
32.	Mil-Lube	REC Office of
	Drilling Fluid Lubricant	Ourow

CEIVED f Oil and Gas SEP 2 4 2018 WV Department of Environmental Protection



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:

RECEIVED Office of Oil and Gas

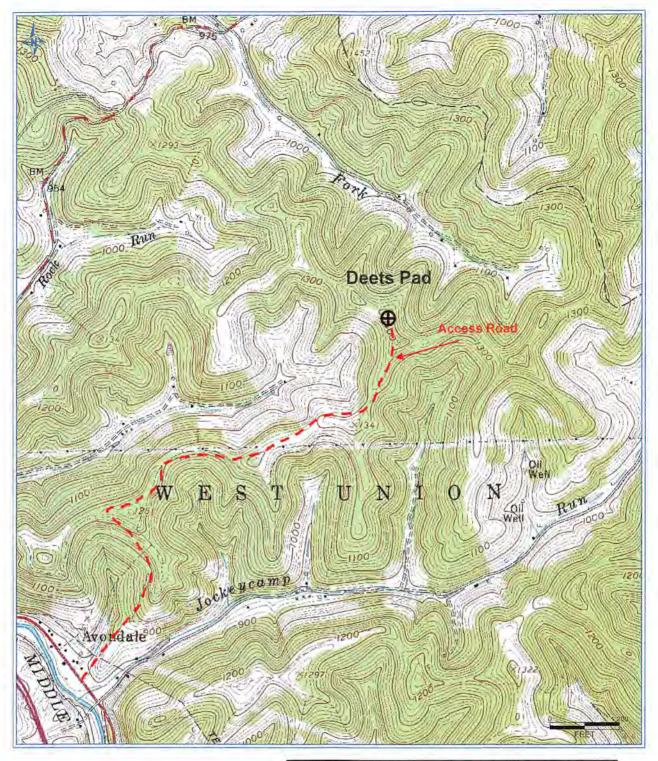
Drive on US-50 E for 46.3 miles. Turn left onto WV-18 N, go 0.6 miles. Turn right onto Davis St/Smithton Rd, go 2.0 miles. Access road will be on the left. Once on the access road, continue!8 on past the Peggy June pad and the George Scott Pad to the Deets Pad.

WV Department of Environmental Protection

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

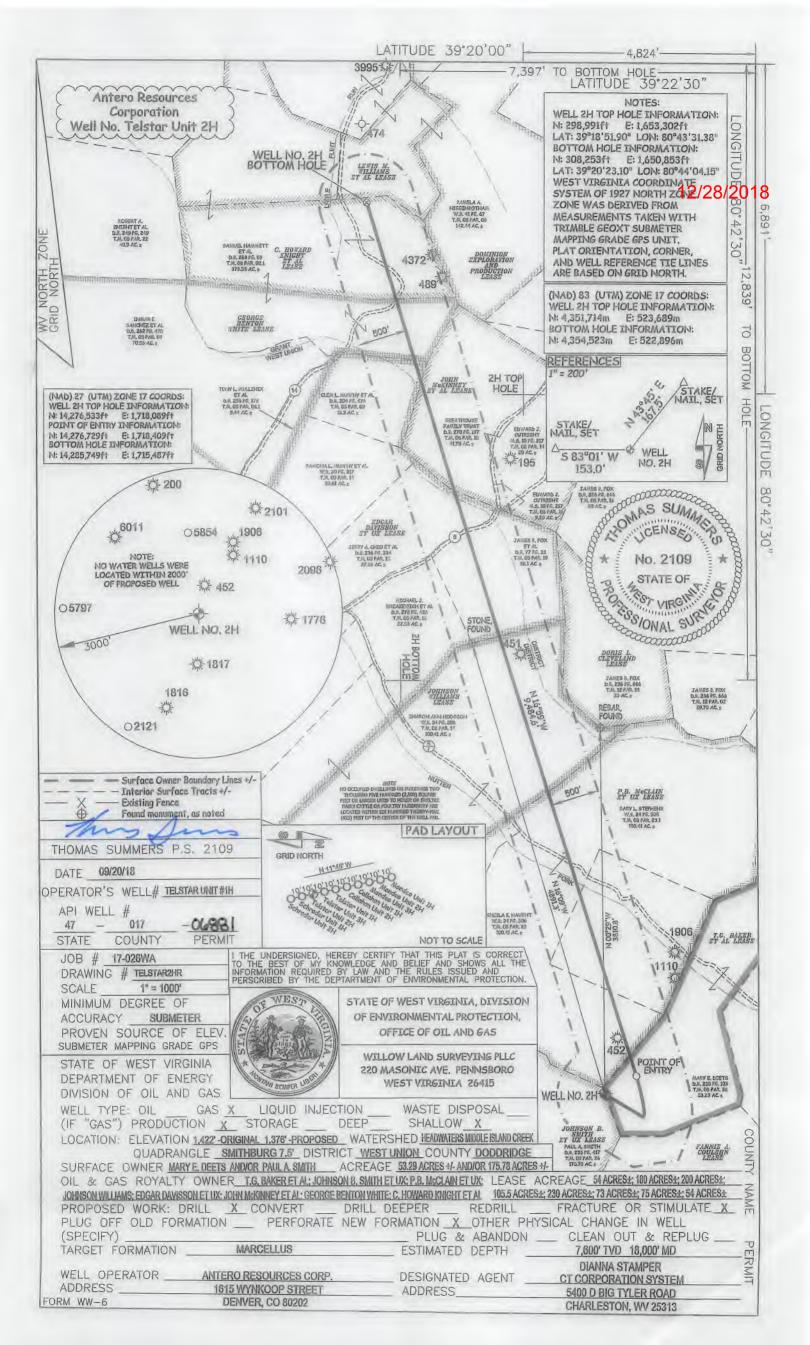
DAF 1019/18

4701706881 12/28/2018



Office of Cill and Gas SEP 2 4 2018 Antero Resources Corporation Appalachian Basin Telstar Unit 2H Doddridge County Quadrangle: West Union Watershed: Middle Island Creek

District: West Union Date: 3-20-2017



Operator's Well Number

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 Lease			
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	Name Change	Exhibit 2
EQT Capital Corporation	Antero Resources Corporation	Assignment	0325/0523
T.G. Baker et al Lease	å	ş	
T.G. Baker, et al	J.D. Foley	<u>ක</u> පසි 1/8	0044/0483
J.D. Foley	Delta Petroleum Company	Assignment	Unrecorded
Delta Petroleum Company	Petroleum Development Corporation	2000 200 2000 2	Unrecorded
Petroleum Development Corporation		Assignment	0240/0118
	Antora Basaursas Corporation	A ssignment	0371/0253
PDC Mountaineer, LLC	Antero Resources Corporation J.D. Foley Delta Petroleum Company Petroleum Development Corporation	Voj 1/8 1/8 1/8 1/8 0 000 0 000	0371/0233
P.B. McClain et ux Lease	0 -		
P.B. McClain et ux	The West Union Gas Company	ய் 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, L.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 Corporation	Assignment	0325/0539
EQT Production Company	Antero Resources Corporation	Assignment	0525/0559
Johnson Williams Lease			
Johnson Williams	West Union Gas Company	1/8	0023/0477
West Union Gas Company	Eastern Oil Company	Assignment	0023/0479
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	0121/0257
Equitable Gas Company	Equitrans, Inc.	Assignment	0154/0475
Equitrans, Inc.	Equitrans, L.P.	Name Change	0302/0123
Equitrans, L.P.	Equitable Production-Eastern States, Inc.	Assignment	0192/0019
Equitable Production-Eastern States, Inc.	Equitable Production Company	Merged	Exhibit 3
Equitable Production Company	EQT Production Company	Name Change	0281/0346
EQT Production Company	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.

****CONTINUED ON NEXT PAGE**

4701706^{12/28/2018 Telstar Unit 2H}

47017062828/2018

Operator's Well Number Telstar Unit 2H

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
Edgar Davisson et ux Lease			
Edgar Davisson et ux	The Carter Oil Company	1/8	0020/0050
The Carter Oil Company	Hope Natural Gas Company	Assignment	0042/0041
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merged	0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merged	Exhibit 4
CNG Transmission Corporation	Dominion Transmission, Incorporated	Merged	Exhibit 5
Dominion Transmission, Incorporated	Consol Energy Holdings, L.L.C.	Assignment	0245/0001
Consol Energy Holdings, L.L.C.	CNX Gas Company, LLC	Merged	0292/0469
CNX Gas Company, LLC	Noble Energy Inc	Assignment	0260/0039
Noble Energy Inc	Antero Resources Corporation	Assignment	0317/0379
John McKinney et al Lease			
John McKinney et al	W.D. Gribble	1/8	0056/0280
W.D. Gribble	Carolyn E. Farr	Conveyance	0003/0055
Carolyn E. Farr	Clarence E. Sigley, Sr., Trustee of the Carolyn Elizabeth Farr Trust	Conveyance	0285/0219
Clarence E. Sigley, Sr., Trustee of the Carolyn Elizabeth Farr Trust	Antero Resources Appalachian Corporation	Assignment	0271/0551
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
George Benton White Lease			
George Benton White	Antero Resources Corporation	1/8	0343/0594



*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. Telstar Unit 2H

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:

C. Howard Knight et al Lease Ferrell L. Prior d/b/a/ Prior Oil Company 1/8 0066/02 G. Howard Knight et al Ferrell L. Prior d/b/a/ Prior Oil Company 1/8 0090/02 Ferrell L. Prior d/b/a/ Prior Oil Company David Bunting and Herbert R. Clark Assignment 0090/02 David Bunting and Herbert R. Clark Associated Minerals, Inc Assignment 0099/03 d.b.a.B&C Oil Company 0099/03 0099/03 0099/03	Lease Name or				
C. Howard Knight et al Ferrell L. Prior d/b/a/ Prior Oil Company 1/8 0066/02 Ferrell L. Prior d/b/a/ Prior Oil Company David Bunting and Herbert R. Clark Assignment 0090/02 d.b.a.B&C Oil Company David Bunting and Herbert R. Clark Assignment 0099/03 d.b.a.B&C Oil Company 0099/03	Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Ferrell L. Prior d/b/a/ Prior Oil Company David Bunting and Herbert R. Clark Assignment 0090/02 d.b.a.B&C Oil Company David Bunting and Herbert R. Clark Assignment 0090/02 d.b.a.B&C Oil Company Associated Minerals, Inc Assignment 0099/03	. Howard Knight et al Lease				
d.b.a.B&C Oil Company David Bunting and Herbert R. Clark Associated Minerals, Inc Assignment 0099/03 d.b.a.B&C Oil Company	C. Howard Knight et	al	Ferrell L. Prior d/b/a/ Prior Oil Company	1/8	0066/0235
d.b.a.B&C Oil Company	Ferrell L. Prior d/b/a	['] Prior Oil Company		Assignment	0090/0263
Annual Microsoft Writ of Evenution 0158/02			Associated Minerals, Inc	Assignment	0099/0328
Associated Minerals, Inc John Underwood Whit of Execution 0156/05	Associated Minerals,	inc	John Underwood	Writ of Execution	0158/0350
John Underwood Drilling Appalchian Corporation Assignment 0173/05.	John Underwood		Drilling Appalchian Corporation	Assignment	0173/0557
Drilling Appalchian Corporation Knight Gas and Oil Well Enterprises, Inc Assignment 0176/04	Drilling Appalchian C	prporation	Knight Gas and Oil Well Enterprises, Inc	Assignment	0176/0477
Knight Gas and Oil Well Enterprises, Inc Antero Resources Corporation Assignment 0338/00	Knight Gas and Oil W	ell Enterprises, Inc	Antero Resources Corporation	Assignment	0338/0018

*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.

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

RECEIVED Office of Oil and Gas

SEP 2 4 2018

WV Department of Environmental Protection

Page 1 of ____

XHIBIT 1		FU	ED	5
· •	1 A.	JUN 1		
Natalio E. Tennant. Scoretary of State 1900 Kanawha Bivd E Bldg 1, Suite 157-K Charleston, WV 25305		IN THE OF	Penney Barker, Ma	vision 8000 -8381 <u>s.com</u>
FILE ONE ORIGIN/ (Two if you want a Bei stamped copy returned FEE: \$25:00	AMENDED	ATION FOR CERTIFICATE THORITY	Office Hours: Monday - F 8:30 a.m 5:00 p.c	riday
**** In accordance applies fo	with the provisions of the West r an Amended Certificate of A	Virginia Code, the under authority and submits the	algued corporation hereby following statement:	****
1. Name under whi authorized to tra	ch the corporation was neact business in WV:	Antero Resources A	opelachian Corporation	- 44 -
2. Date Certificate issued in West V		6/25/2008	-	
3. Corporate name (Attach one <u>Cer</u> as filed in home	has been changed to: tifled Conv of Name Chang State of Incorporation.)	Antero Resources C	orporatión	
	ation elects to use in WV: te name not being available)	Antero Resources Co	orporation	i
5. Other amendmen	a series and the		- a - a	
4	• • •	······································		Ξ.
the filing, listing document.)	e number of contact person, a contact person and phone n	umber may avoid having	; to return or reject the	vìth
		1.1	ab7-7310 one Number	
	antion (See below * <u>Importan</u> gner: Alayn A. Schopp	Pho t Legal Notice Regardin		
Signature:	Hyttachopp	Date:	June 10, 2013	
Any person who signs a do to the secretary of state for	Repariting Stanature: For West Vir curnent he or she knows is false in a filing is guilty of a misdomesner ar ed in the county or regional jult not a	any material respect and know ul, upon conviction thereof, si	vs that the document is to be deli hall be fined not more than one	vered
Form CF-4	listed by the O	Nico of the Secretary of Sinto -	Revis	2 4 2018

E



PAGE 03/05

KANAWHA CO ASSESSOR

FORM WW-6A1 EXHIBIT 2, Page 1

3043570551

02/11/2010 10:36

Pro 16 - 1

BOOK 512 MAR 781.

ARTICLES OF MERGER Of KENTUCKY WEST VIRGINIA GAS COMPANY

a West Virginia Company

Into

FILED NOVRENE 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:

1. 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.

2. 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 Equitrans and Kentucky West in accordance with the provisions of the West Virginia Corporation Act and of the Delaware General Corporation Law.

4. The current Certificate of Incorporation of EQT shall be its Certificate of Incorporation on and after the Effective Date of the merger.

Office of Olland Gas SEP 2.4 2018 Environmental Protection

02/11/2010 10:36

BOOK 512 PAGE 782

3043570551

5. 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	Designation of	Number of Shares Owned by Surviving <u>Corporation</u>
Kentucky West Virginia	331,754	Common	331,754

A copy of the Plan of Marger 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 Its President Under Challer Its Corporate Secretary



12/28/201 PAGE 04/05

4701706881



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

Secretary of State



FORM WW-6A1 EXHIBIT 4

Į



12/28/20

6881

70

Offic

I. Ken Hechler, - Secretary of State of the State of West Virginia, hereby certify that

originals of an application by

CONSOLIDATED GAS TRANSMISSION CORPORATION

for an amended certificate of authority to transact business in West Virginia are filed in my office, as required by the provisions of Chapter 31, Article 1, Sections 57 and 59 of the West Virginia Code and conform to law. Therefore, I issue this

AMENDED CERTIFICATE OF AUTHORITY

to transact business in West Virginia under the name of

CNG TRANSMISSION CORPORATION

and I attach to this certificate a duplicate original of the application.

Given under my hand and the Great Seal of the State of

West Virginia, on this ____day of THIRTEENTH JANUARY 19 88 Kon: Fickler Sundary of State.



riginals of an application by

CNG TRANSMISSION CORPORATION

for an amended certificate of authority to transact business in West Virginia are filed in my office, as required by the provisions of Chapter 31, Article 1, Sections 57 and 59 of the West Virginia Code and conform to law. Therefore, I issue this

AMENDED CERTIFICATE OF AUTHORITY

to transact business in West Virginia under the name of

DOMINION TRANSMISSION, INC.

SEP 2 4 2018

and I attach to this certificate a duplicate original of the application.



Given under my hand and the Great Seal of the State of West Virginia on

May 10, 2000

Ta Middlen

Pecretary of State

47017012882018



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

September 14, 2018

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

RE: Telstar Unit 2H 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 Telstar Unit 2H 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 Telstar Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely, Brett Kuhn Senior Landman



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

Date of Notice Certification: 09/20/2018

API No. 47- 017	
Operator's Well N	to. Telstar Unit 2H
Well Pad Name:	Deets Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	523689m
County:	Doddridge	Northing:	4351714m
District:	West Union	Public Road Access:	OLD US-50
Quadrangle:	Smithburg 7.5'	Generally used farm name:	Mary E. Deets and/or Paul A. Smith
Watershed:	Headwaters Middle Island Creek		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:	
*PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
□ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED	
3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	RECEIVED
■ 5. PUBLIC NOTICE ■ 6. NOTICE OF APPLICATION ■ 6. NOTICE OF APPLICATION ■ 6. NOTICE OF APPLICATION	RECEIVED
6. NOTICE OF APPLICATION SEP September of the section	RECEIVED
Bequired Attachments:	

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.

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
By:	Kevin Kilstrom	0-0-	Denver, CO 80202
ts:	Senior VP of Production	Facsimile:	303-357-7315
Felephone:	303-357-7310	Email:	kcox@anteroresources.com
1	HMORTIM ROYSEAL NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184014160 ISSION EXPIRES MARCH 29, 2022	101	orn before me this <u>20</u> day of <u>Sept 2018</u> . Notary Public xpires <u>3/29/2022</u>

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.

Office of Oil and Gas Office of Oil and Gas SEP 2 4 2018 SEP Department of the protection Environmental Protection

4701706881

12/28/2018

WW-6A (9-13) API NO. 47-017 - 12/2

OPERATOR WELL NO. Telstar Ohit2P/201 Well Pad Name: Deets Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: <u>9/21/2018</u> Date Permit Application Filed: <u>9/21/2018</u>

 PERMIT FOR ANY
 CERTIFICATE OF APPROVAL FOR THE

 WELL WORK
 CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

 PERSONAL
 REGISTERED
 Image: Mathematical Service

 SERVICE
 MAIL
 RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)	□ COAL OWNER OR LESSEE	-0
Name: PLEASE SEE ATTACHMENT	Name: NO DECLARATIONS ON RECORD WITH COUNTY	DECENED Gas
Address:	Address: Office	RECEIVED Gas e of Oil and Gas EP 2 4 2018
Name:	COAL OPERATOR	EP 2 4 Control WV Department of Vironmental Protection
Address:	Name: NO DECLARATIONS ON RECORD WITH COUNTY	artmentection
	Address:	NV Deportal Pro
SURFACE OWNER(s) (Road and/or Other Disturbance)	En	VITOTITI
Name: PLEASE SEE ATTACHMENT	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,	
Address:	SPRING OR OTHER WATER SUPPLY SOURCE	
	Name: NONE IDENTIFIED WITHIN 1,500'	
Name:	Address:	
Address:	· · · · · · · · · · · · · · · · · · ·	
	OPERATOR OF ANY NATURAL GAS STORAGE FI	ELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:		
	*Please attach additional forms if necessary	

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 ware carbon and-gas/pages/default.aspx. SEP 2 4 2018

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally from the drilled within two hundred fifty feet measured horizontally f water well or developed spring used for human or domestic animal consumption. The center of well pads may not be dotated 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

WW-6A (8-13) **4701706881** API NO. 47-017 OPERATOR WELL NO. Telstar Onice 8/2018 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

RECEIVED Office of Oil and Gas SEP 2 4 2018

Such persons may request, at the time of submitting written comments, notice of the permit decision and a Niet of the permit decision and a Ni

WW-6A (8-13)



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-

<u>Permits/Pages/default.aspx</u> 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 Oil and Gas SEP 2 4 2018 WIV Department of Environmental Protect

WW-6A (8-13)



Notice is hereby given by:

Well Operator: Antero Resource	es Corporat	ion	
Telephone: (303) 357-7310	leit	atto	
Email: shjohnson@anteroresources.com			

Address: 1615 Wynkoop Street		
	nver, 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 <u>depprivacyofficer@wv.gov</u>.

KARIN COX NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20184014160 MY COMMISSION EXPIRES MARCH 29. 2022

Subscribed and sworn befor	e me this 2 day of 5	2pt. 2018.
MAN		Notary Public
My Commission Expires	3/29/2022)



4101706881

12/28/2018

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. Haugh
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

IMOTCL	50	
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: Address:	Linda Fay Star 10665 Market Avenue N Hartville, OH 44632	
Owner: Address:	Jo Ann Adair 2473 E. Turkeyfoot Lake Road Akron, OH 44319	
Owner: Address:	Eva Mae Starcher 1504 1 st Street Lakemore, OH 44250	
Owner: Address:	Wyonne Sue Bares 168 Evergreen Circle Akron, OH 44301	Office of Oil and Gas SEP 2 4 2018
Owner: Address:	Twilia Jo Radcliffe 84605 McGill Road Tippecanoe, OH 44699	SEP 2 4 C WW Department of Environmental Protectiv

4701706881 12/28/2018

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).

Owner:

Address:

Owner:

Address:

Owner:

Address:

Owner:

Address:

TM 8 PCL 38 cont.

Jo Ann Adair

Akron, OH 44319

Eva Mae Starcher

Lakemore, OH 44250

168 Evergreen Circle

Wyonne Sue Bates

Akron, OH 44301

Twilia Jo Radcliffe 84605 McGill Road

Sheila K. Haught

West Union, WV 26456

825 Johnson Williams Hollow Rd

Tippecanoe, OH 44699

1504 1st Street

2473 E. Turkeyfoot Lake Road

TM 8 PCL 51

Owner:	Robert L. Holland
Address:	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:	George S. Wyckoff
Address:	PO Box 102
	Smithburg, WV 26436

TM 8 PCL 38

Owner:	Mary Ellene Deets	TM 8 PCL	_
Address:	5528 Pepperidge Rd	Owner:	Sh
	Clinton, OH 44216	Address:	82
			W
Owner:	Donald J. Sponaugle,		
	c/o Lennie McKinney III	TM 8 PCL	23.1
Address:	5528 Pepperidge Rd	Owner:	Bı
	Clinton, OH 44216	Address:	34
			W
Owner:	Carol Lynn Liston		
Address:	7490 Beach Road	TM 8 PCL	36
	Wadsworth, OH 44281	Owner:	Pa
0	Lindo Fou Stain	Address:	14
Owner:	Linda Fay Stair	100 100 100 100 100 100 100 100 100 100	Lo
Address:	10665 Market Avenue N		L

Hartville, OH 44632

Brian S and Lisa Daro vner: 346 Johnson Williams Hollow Rd dress: West Union, WV 26456

18 PCL 36

Owner:	Paul Amos Smith Jr
Address:	140 Belvue Dr
	Los Gatos, CA 95032

SEP 2 4 2018

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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 09/05/2018 Date Permit Application Filed: 09/21/2018

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):		Cition Coll and Gas
Name: PLEASE SEE ATTACHMENT Address:	Name: Address:	CEP 2 4 2018
		Environmental Protection
Notice is hereby given.		Environin

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia
County:	Doddridge
District:	West Union
Quadrangle:	Smithburg 7.5'
Watershed:	Headwaters Middle Island Creek

UTM NAD 83 Public Road Acc	Easting: Northing:
	· · · · · · · · · · · · · · · · · · ·
Public Road Acc Generally used f	farm name:

523689 4351714 Old US-50 Mary E. Deets and/or Paul A. Smith

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator:	Antero Resources Appalachian Corporation	Authorized Representative:	Karin Cox
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.
	Denver, CO 80202		Denver, CO 80202
Telephone:	303-357-7310	Telephone:	303-357-7310
Email:	kcox@anteroresources.com	Email:	kcox@anteroresources.com
Facsimile:	303-357-7315	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.

WW-6A4 Notice of Intent to Drill Attachment:

4701706881 Surface Owners: Tax Parcel ID: 8-8-23 **Owner:** Sheila K Haught 825 Johnson Williams Hollow Rd Address: West Union, WV 26456 Tax Parcel ID: 8-8-36 Paul Amos Smith **Owner:** 140 Belvue Dr Address: Los Gatos, CA 95032 Tax Parcel ID: 8-8-38 **Owner:** Mary Ellene Deets 5528 Pepperidge Rd Address: Clinton, OH 44216 **Owner:** Donald J. Sponaugle, c/o Lennie McKinngy III 5528 Pepperidge Rd Address: Clinton, OH 44216 **Owner:** Carol Lynn Liston Address: 7490 Beach Road Wadsworth, OH 44281 *Please note this address for Linda Fay Stair has been updated: Linda Fay Stair **Owner:** 10665 Market Avenue N 100 Shayne Lane Address: Latrobe, PA 15650 Hartville, OH 44632 **Owner:** Jo Ann Adair 2473 E. Turkeyfoot Lake Road Address: Akron, OH 44319 **Owner:** Eva Mae Starcher RECEIVED Office of Oil and Gas 1504 1st Street Address: Lakemore, OH 44250 SEP 2 4 2018 WY Department of Environmental Protection **Owner:** Wyonne Sue Bates 168 Evergreen Circle Address: Akron, OH 44301 Twilia Jo Radcliffe **Owner:** 84605 McGill Road Address: Tippecanoe, OH 44699

WW-6A5 (1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 09/21/2018 Date Permit Application Filed: 09/21/2018

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

匾	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:		
Address:		

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	523689m	
County:	Doddridge	UTM NAD 83	Northing:	4351714m	
District:	West Union	Public Road Acc	ess:	OLD US-50	
Quadrangle:	Smithburg 7.5'	Generally used fa	arm name:	Mary E. Deets and/or Paul A. Smith	
Watershed:	Headwaters Middle Island Creek				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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-andgas/pages/default.aspx.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	THEAT OF OIL and Gas
Telephone:	(303) 357-7310		Denver, CO 80202	0 1 2019
Email:	kcox@anteroresources.com	Facsimile:	303-357-7315	SEP 2 4 2018

Av squartment of

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.

4701706881

WW-6A5 Notice of Planned Operations Attachment (TELSTAR UNIT 2H - 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 Owner:	Sheila K. Haught	TM 8 PCL Owner:	Paul Amos Smith Jr
Address:	825 Johnson Williams Hollow Rd		
Auuress.	West Union, WV 26456	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,		
Address:	c/o Lennie McKinney MI		
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 Ave N Hartville OH 44632		
Owner:	Jo Ann Adair 🖌		
Address:	2473 E. Turkeyfort Lake Road		
	Akron, OH 44319		
Owner:	Eva Mae Starche		Q
Address:	1504 1 st Street		ET S ITOP R
	Lakemore, OH 44250		VITON PEP OF CE
Owner:	Wyonne Sue Bares		men 25
Address:	168 Evergreen Circle		tal the 20
	Akron, OH 44301		Office of Oil and Gas SEP 2.5 2018 SEP 2.5 2018 WV Department of Environmental Protection
Owner:	Twilia Jo Rade ffe		ction
Address:	84605 McGill Road		-
	Tippecanoe, OH 44699		

4701706182/28/2018



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 Telstar Unit 2H Well Site

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,

Tary K. Claytow

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Karin Cox Antero Resources Corporation CH, OM, D-4 File

RECEIVED Office of Oil and Gas

SEP 2 4 2018

WV Department of Environmental Protection

4701706881 List of Anticipated Additives Used for Fracturing or_{12/28/2018} Stimulating Well

~ *

		1
Additives	Chemical Abstract Service Number	
	(CAS #) 7732-18-5	
Fresh Water		
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1	
Ammonium Persulfate	7727-54-0	
Anionic copolymer	Proprietary	
Anionic polymer	Proprietary 64742-48-9	•
BTEX Free Hydrotreated Heavy Naphtha		
Cellulase enzyme	Proprietary	
Demulsifier Base	Proprietary Mixture	
Ethoxylated alcohol blend		
Ethoxylated Nonylphenol	26635-93-8	
Ethoxylated oleylamine	107-21-1	
Ethylene Glycol	111-76-2	
Glycol Ethers	9000-30-0	1
Guar gum	7647-01-0	1
Hydrogen Chloride Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8	1
	67-63-0	4
Isopropyl alcohol	10222-01-2	
liquid, 2,2-dibromo-3-nitrilopropionamide		
	Proprietary 64742-47-8	
Petroleum Distillates (BTEX Below Detect)	57-55-6	
Polyacrylamide	107-19-7	
Propargyl Alcohol	57-55-6	{
Propylene Glycol		ł
Quartz	14808-60-7	
Sillica, crystalline quartz	7631-86-9	
Sodium Chloride	7647-14-5 1310-73-2	CEIVED Oil and Gas
Sodium Hydroxide		3
Sugar	57-50-1 SEP	2 4 2018
Surfactant	68439-51-0 JL1	partment of ental Protection
Suspending agent (solid)	14808-60-7 WV D	ental Protection
Tar bases, quinoline derivs, benzyl chloride-quaternized		
Solvent Naphtha, petroleum, heavy aliph	64742-96-7	
Soybean Oil, Me ester Copolymer of Maleic and Acrylic Acid	52255-49-9	
DETA phosphonate		ł
Hexamthylene Triamine Penta	<u>15827-60-8</u> 34690-00-1	{
Phosphino Carboxylic acid polymer	71050-62-9	1
Hexamethylene Diamine Tetra	23605-75-5	1
2-Propenoic acid, polymer with 2 propenamide	9003-06-9	1
Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	1
Diethylene Glycol	111-46-6	1
Methenamine	100-97-0	1
Polyethylene polyamine	68603-67-8	1
Coco amine	61791-14-8	1
2-Propyn-1-olcompound with methyloxirane	38172-91-7	4

