

#### west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary <u>www.dep.wv.gov</u>

## Wednesday, September 16, 2020 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for PROSPER 1H

47-095-02699-00-00

Laterl Length

#### ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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: PROSPER 1H

Farm Name: RICHARD D. PYLES

U.S. WELL NUMBER: 47-095-02699-00-00

Horizontal 6A New Drill

Date Modification Issued: September 16, 2020

Promoting a healthy environment.

WW-6B (04/15) Church 220079 7/23/2009 \$5,000.00

PERMIT MODIFICATION API # 47-095-02699

API NO. 47- 095 - 02699

OPERATOR WELL NO. Prosper Unit 1H

Well Pad Name: Pyles Pad

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

1) Well Operate	or: Antero I	Resources	Corporal	494507062	095 - Tyler	Ellsworth	Porter Falls 7.5'
20 10 11 10 10 10 10 10 10 10 10 10 10 10				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number:	Prosper U	nit 1H	Well Pa	ad Name: Pyles	s Pad	
3) Farm Name/	Surface Own	er: Richard	D. Pyles	Public Ro	ad Access: US	Route 34	
4) Elevation, cu	urrent ground	: 1081'	Ele	evation, proposed	d post-construct	ion: ~1081	I e
5) Well Type	(a) Gas 2	X	_ Oil	Un	derground Stora	ge	
	(b)If Gas	Shallow Horizontal	X	Deep	-		
6) Existing Pad	: Yes or No						
	•			ipated Thickness ss- 55 feet, Assoc		Commence of the commence of th	
8) Proposed To	tal Vertical I	Depth: 710	0' TVD				
) Formation at			Marcellus	H			
10) Proposed T	otal Measure	ed Depth:	22700' M	D			
11) Proposed H	lorizontal Le	g Length:	13911'				
12) Approxima	te Fresh Wat	er Strata De	pths:	61'			
13) Method to	Determine Fi	resh Water I	Depths: 4	7-095-01958			
14) Approxima	te Saltwater	Depths: 22	200'				
15) Approxima	ite Coal Sean	Depths: N	lone Iden	tified			
16) Approxima	te Depth to F	Possible Voi	d (coal mi	ne, karst, other):	None Anticipa	ated	
17) Does Propo directly overlyi				ms Yes	N	o <u>X</u>	
(a) If Yes, pro	ovide Mine I	nfo: Name	2:				
		Depth	:				
		Seam:					
		Owne	r:		Office of Oil and	Gas	

SEP 1 4 2020

WW-6B (04/15) API NO. 47- 095 - 02699

OPERATOR WELL NO. Prosper Unit 1H
Well Pad Name: Pyles Pad

18)

## **CASING AND TUBING PROGRAM**

ТҮРЕ	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	54.5#	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	23#	22700	22700	5834 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	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"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

## **PACKERS**

Kind:	N/A	RECEIVED
Sizes:	N/A	Office of Oil and Gas SEP 1 4 2020
Depths Set:	N/A	W Department of Environmental Protection

WW-6B (10/14)

API NO. 47- 095 - 02699

OPERATOR WELL NO. Prosper Unit 1H

Well Pad Name: Pyles Pad

19)	Describe 1	proposed	well	work,	including	the	drilling	and 1	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): 23.71 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 10.00 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:

Office of Oil and Gas
SEP 1 4 2020

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

WV Department of Environmental Protection

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:

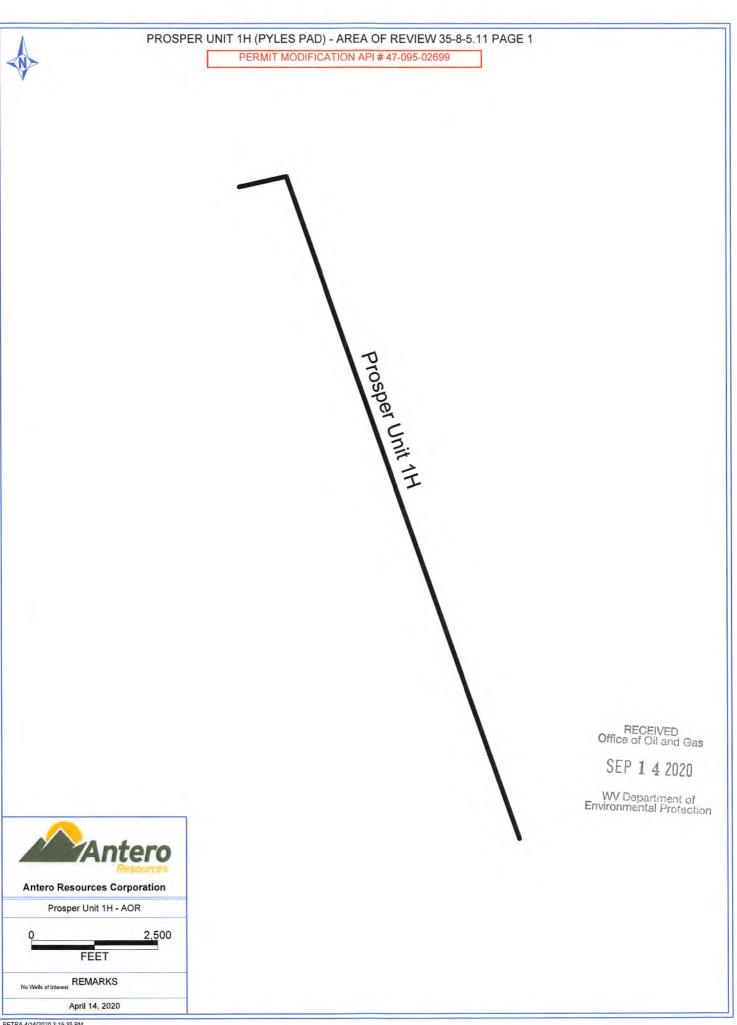
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

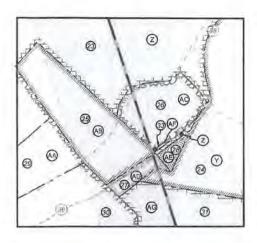
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls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

\*Note: Attach additional sheets as needed.



Antero Resources Well No. Prosper 1H BHL MOD Antero Resources Corporation Page 2 of 2





ID.	TM/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.5
2	16-24	Harry Eastham, et al	AR54/518	64.00
3	16-22	Joseph L. Jr. & Karen Sitko	296/13	81.70
4	16-44	Robert A. Pyles, et al	335/482	87.82
5	16-42.1	Richard D. Pyles	336/815	4.58
6	16-42.2	Bonnie J. Hair	569/105	2.44
7	16-42.3	Richard D. Pyles	379/20	3.00
8	16-39	Richard D. & Cathy J. Pyles	490/566	48.51
9	16-43	Alfred L Eddy	344/22	37.10
10	16-40	Gary L. Weekley	WB 22/601	5.79
11	16-38	Antero Resources Corp.	662/782	15.00
12	22-4	Stephen H. & Barbara J. Dunthorn	216/40	69.00
13	22-6	Antero Resources Corp.	662/782	131.57
14	22-5	Antero Resources Corp.	662/782	84.67
15	22-40	Ronald P. & Sandra L. Webb	282/1	65.00
16	22-17	Dorthy Mae Stevens Irrevocable Trust	453/610	82.75
17	22-39	Ronald P. & Sandra L. Webb	270/587	45.00
18	22-38	Bruce & Sandra L. Parr	368/790	113.00
19	22-23.1	Raymond L. Parr	284/350	18.00
20	22-23.2	Anthony B. Parr	440/62	17.00
21	22-34	Raymond L. Parr, et al	329/181	55.25
22	22-23	Anthony B. Parr	440/62	17.00
23	22-35	Marie Eddy	344/358	52.96
24	22-33	Donald & Wilma Weekley	262/587	65.75
25	28-43	Wanda J. Parr	327/435	8.02
26	28-45	Wanda J. Parr	349/18	4.55
27	28-42	Robert H. Anderson	238/76	0.99
28	28-34	Shirt N. Baker, Jr.	WB 38/1	0.50
29	28-32	B.W. Weekley	107/562	33.31
30	28-33	B.W. Weekley	107/562	25.30
31	28-35	Shiri N. Baker, Jr.	WB 38/1	32.00
32	28-36	Jim & Sandra Young	368/797	46.50
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	Leases					
A	Richard D. & Cathy J. Pyles					
В	Helen E. Boggs					
C	Joseph L. Sitko, et ux					
D	BRC Appalachian Minerals I, LLC					
E	James F. Doan, et ux					
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L	Taryn E. Pilling					
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M	Clarence W Mulscheihnaus Jr					
N	Ridgetop Capital II, LP					
0	Rosemary Haught BRC Appalachian Minerals I, LLC					
P						
	Clarence W. Mutschelknaus Sr. &					
Q	Clarence W Mutschellmaus Jr.					
R	Mary B. Hoover					
5	Ronald P. Webb					
T	Carol J. Knapp					
U	Anthony Bruce Parr, et ux					
V	Open					
W	Judith Remiey Phillip					
X	Nancy L. Mains					
Y	Dale H. Parr					
Z	Larry Stevens					
AA	Richard L. White, II					
AB	Wanda J. Parr					
AC	Elizabeth Ann Weekley					
AD	Lucille Adams					
AE	Lucille Adams					
AF	Elizabeth A. Weekley					
AG	Bounty Minerals LLC					
AH	Jim & Sandra Young					

Office of Oil and Gas WV Dep Environmen artment of tal Protection

FILE NO: 189-54-E-19 DRAWING NO: Prosper Unit 1H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

WEST

DATE: July 30 20 20 OPERATOR'S WELL NO. Prosper 1H API WELL NO MODI 095 . 02699 47

COUNTY

PERMIT

STATE

WELL TYPE: OIL ☐ LIQUID INJECTION ☐ WASTE DISPOSAL X GAS

(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP 🗵 SHALLOW

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley

MATERSHED: Outlet Wildole Island Creek

OUADRANGLE: Shiney

DISTRICT: Ellsworth

Elizabeth Ann Weekley (2), Boulet Middle Island Creek

OUADRANGLE: Shiney

DISTRICT: Ellsworth

Anthony Bruce Parr, et ux; Nancy L Mains; Larry Stevens; Wanda J Parr,

Anthony Bruce Parr, et ux; Nancy L Mains; Larry Stevens; Wanda J Parr,

COUNTY: Tyler

SURFACE OWNER: Richard D, Pyles

Ridgeting Capital II, It; BRC Appelachhar Minerals I, LtC, Carol J Knapp,

Clarence W, Mutschelknaus & R. Ronald P, Webb,

Clarence W, Mutschelknaus & R. Ronald P, Webb,

Clarence W, Mutschelknaus & R. Ronald P, Webb,

ACREAGE

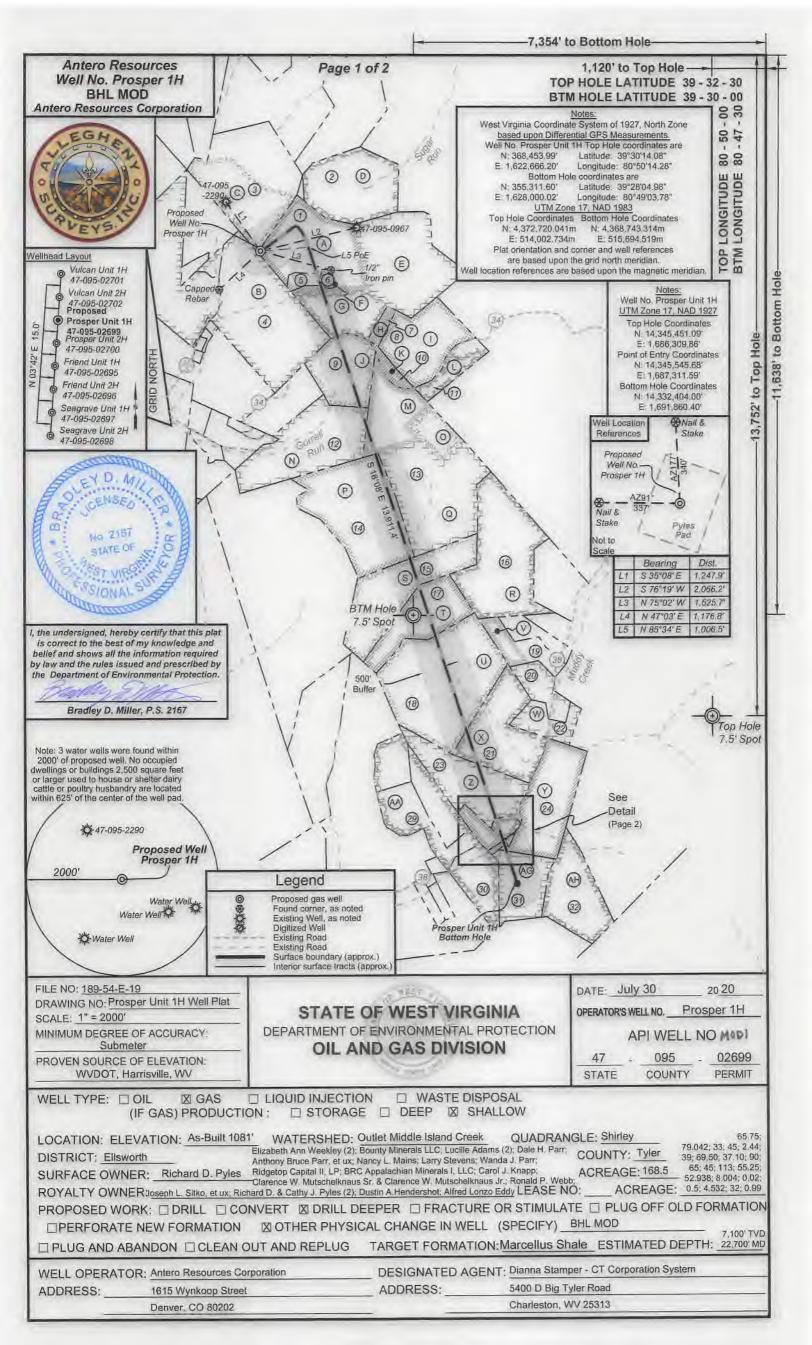
ACREAGE 79.042; 33; 45; 2.44; 39; 69.50; 37.10; 90; ACREAGE: 168.5 65, 45, 113, 55, 25, 52, 938, 8, 004, 0, 02, 05, 4, 532, 32, 0, 99

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☑ DRILL DEEPER ☐ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

□PERFORATE NEW FORMATION ☑ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD TARGET FORMATION:Marcellus Shale ESTIMATED DEPTH: 22,700° MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System

ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road Charleston, WV 25313 Denver, CO 80202

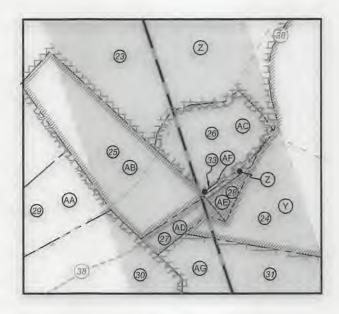


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Antero Resources Corporation







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AG	Bounty Minerals LLC				
AH	Jim & Sandra Young				

FILE NO: 189-54-E-19
DRAWING NO: Prosper Unit 1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

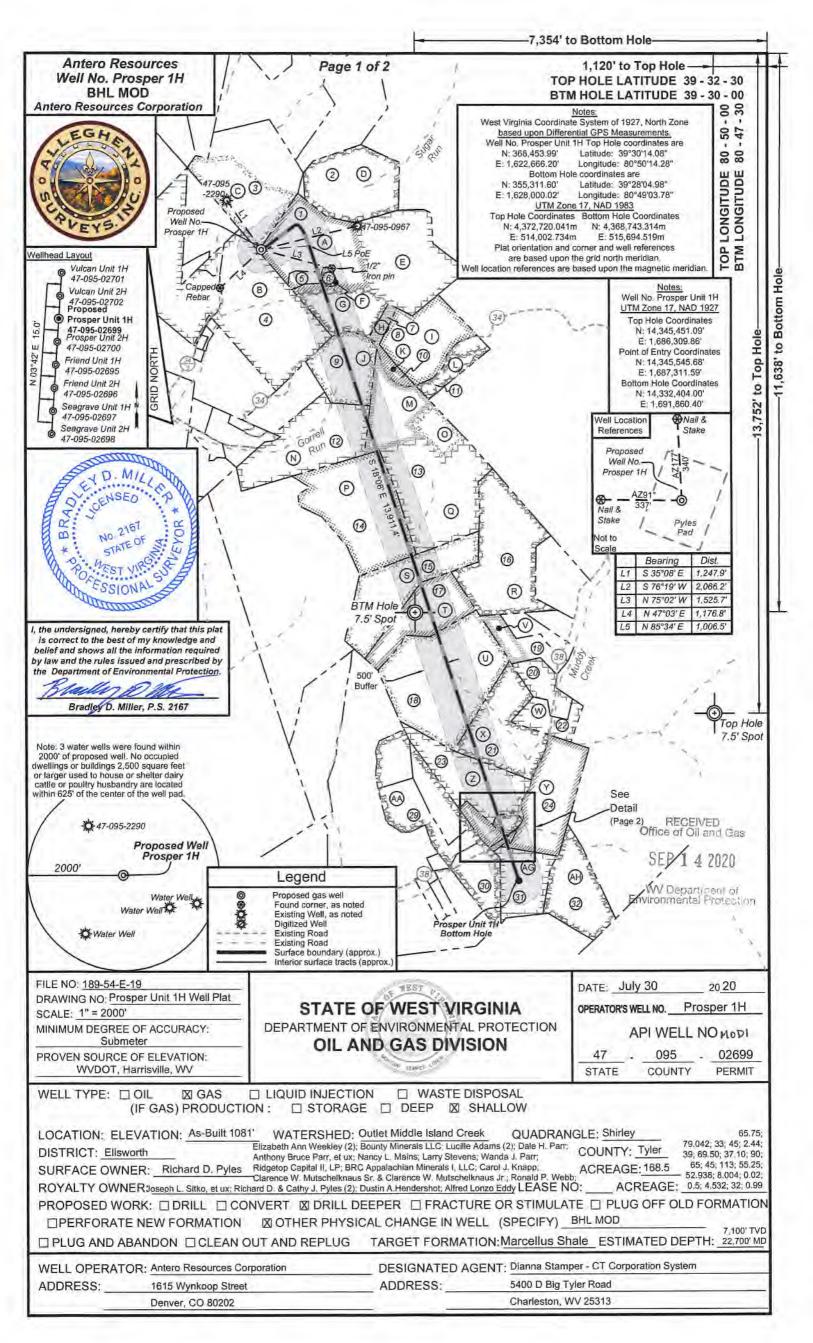
## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE: July 30 20 20 OPERATOR'S WELL NO. Prosper 1H API WELL NO MODI COUNTY DEP. 47 STATE

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION ☐ (IF GAS) PRODUCTION : ☐ STORAGE ☐ I	] WASTE DISPOSAL DEEP ⊠ SHALLOW
Anthony Bruce Parr, et ux; Nancy L. Ma SURFACE OWNER: Richard D. Pyles Ridgetop Capital II, LP; BRC Appalachi	rals LLC; Lucille Adams (2); Dale H. Parr. county: Tyler 39; 69:50; 37:10; 90; an Minerals I, LLC; Carol J. Knapp; nnce W. Mutschelknaus Jr.; Ronald P. Webb: 79.042; 33; 45; 2.44; 39; 69:50; 37:10; 90; 65; 45; 113; 55:25; 65; 98; 8:004; 0.02;
PROPOSED WORK: □ DRILL □ CONVERT ☒ DRILL DEEPER □ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHA	ANGE IN WELL (SPECIFY) BHL MOD 7,100' TVD
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARG	ET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,700' MD
WELL OPERATOR: Antero Resources Corporation DES	GNATED AGENT: Dianna Stamper - CT Corporation System
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Denver, CO 80202

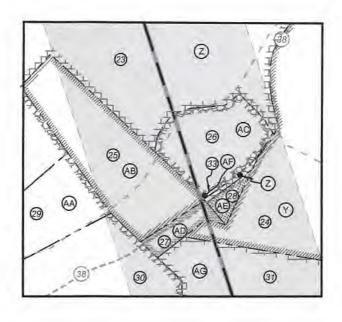
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Office of Oil and Gree

SEP 1 4 2020

WV Department of Environmental Protection

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AH	Jim & Sandra Young

FILE NO: 189-54-E-19
DRAWING NO: Prosper Unit 1H Well Pla
SCALE: 1" = 2000"
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION:

Denver, CO 80202

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION

DATE:	luly	30	20 20		
OPERATOR'S	S WE	LL NO	Pros	per 1H	
	AF	PIWE	LL N	O MODI	
47	_	095		02699	
STATE		COUN	TY	PERMIT	

WELL TYPE: O	IL 🛛 GAS GAS) PRODUCTION	☐ LIQUID INJECTION: ☐ STORAG		SPOSAL HALLOW		
LOCATION: ELEV DISTRICT: Ellswort SURFACE OWNER ROYALTY OWNER	h Richard D. Pyles	Elizabeth Ann Weekley (2); Anthony Bruce Parr, et ux; I Ridgetop Capital II, LP; BRC Clarence W. Mutschelknaus	Outlet Middle Island Cree Bounty Minerals LLC; Lucille A Nancy L. Mains; Larry Stevens C Appalachian Minerals I, LLC; S Sr. & Clarence W. Mutschelk Dustin A.Hendershot; Alfred L	Adams (2); Dale H. Parr; s; Wanda J. Parr; ; Carol J. Knapp; naus Jr.; Ronald P. Webb	COUNTY: Tyler ACREAGE: 168.5	65.75; 79.042; 33; 45; 2.44; 39; 69.50; 37.10; 90; 65; 45; 113; 55.25; 52.938; 8.004; 0.02; 0.5; 4.532; 32; 0.99
PROPOSED WOR	K: DRILL DCO	NVERT IN DRILL D	EEPER   FRACTU	RE OR STIMULAT	E PLUG OFF C	LD FORMATION
			CAL CHANGE IN WE			7,100° TVD
☐ PLUG AND ABA	NDON □ CLEAN C	OUT AND REPLUG	TARGET FORMAT	ION:Marcellus Sha	ale_ESTIMATED D	)EPTH: 22,700' MD
WELL OPERATOR	: Antero Resources Co	rporation	DESIGNATED AG	BENT: Dianna Stamp	er - CT Corporation Sy	stem
ADDRESS:	1615 Wynkoop Street		ADDRESS:	5400 D Big Ty	ler Road	
and the same	Denver, CO 80202			Charleston, W	V 25313	

WW-6A1 (5/13)

Operator's V	Well No	Prosper	Unit	1H
Oberaior 5	V CII INO.			

### 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
	Grantor, Lessor, etc.	Grantor, Lessor, etc. Grantee, Lessee, etc.	Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty

\*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

Office of Oil and Gas

SEP 1 4 2020

WV Department of Environmental Protection

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: Tim Rady

Its: VP of Land

\*Co-tenancy utilization – At least 7 mineral owners in tract. At least 75% of the royalty owners have executed a lease on the tract. The interests of the remaining co-tenants were acquired pursuant to the Co-tenancy Modernization and Majority Protection Act

Page 1 of 1

Operator's Well Number

Prosper Unit 1H

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Grantor, lessor, etc.	Grantee, lessee,	etc.	Royalty	Book/Page
Richard D. & Cathy J. Pyles Lease (TM 16 PCL 42)				
Richard D. & Cathy J. Pyles	PetroEdge Energy LLC		1/8+	0385/0350
PetroEdge Energy LLC	Statoil USA Onshore Properties		Assignment	0406/0147
Statoil USA Onshore Properties	EQT Production Company		Assignment	0539/0239
EQT Production Company	Antero Resources Corporation		Assignment	0022/0144
Dustin A. Hendershot Lease				
Dustin A. Hendershot	PetroEdge Energy LLC		1/8+	0385/0348
PetroEdge Energy LLC	Statoil USA Onshore Properties		Assignment	0406/0147
Statoil USA Onshore Properties	EQT Production Company		Assignment	0539/0239
EQT Production Company	Antero Resources Corporation		Assignment	0022/0144
Richard D. & Cathy J. Pyles Lease (TM 16 PCL 42.2)				
Richard D. & Cathy J. Pyles	PetroEdge Energy LLC		1/8+	0385/0350
PetroEdge Energy LLC	Statoil USA Onshore Properties		Assignment	0406/0147
Statoil USA Onshore Properties	EQT Production Company		Assignment	0539/0239
EQT Production Company	Antero Resources Corporation		Assignment	0022/0144
Alfred Lonzo Eddy Lease				
Alfred Lonzo Eddy	Antero Resources Corporation		1/5+	0411/0532
Ridgetop Capital II LP Lease				
Ridgetop Capital II LP	PetroEdge Energy LLC		1/8+	0387/0210
PetroEdge Energy LLC	Statoil USA Onshore Properties		Assignment	0406/0147
Statoil USA Onshore Properties	EQT Production Company		Assignment	0539/0239
EQT Production Company	Antero Resources Corporation		Assignment	0663/0001
Clarence W. Mutschelknaus Sr. & Clarence W. Jr. Lease				
Clarence W. Mutschelknaus Sr. & Clarence W.	Antero Resources Corporation		1/8+	0529/0453
Jr.	Charles and the second second	RECEIVED		
BRC Appalachian Minerals I LLC Lease		Office of Oil and Gas		
BRC Appalachian Minerals I LLC	BRC Working Interest Company	OFD 1 4 0000	1/8	0369/0300
BRC Working Interest Company	Chesapeake Appalachia LLC	SEP 1 4 2020	Assignment	0378/0764
Chesapeake Appalachia LLC	EQT Production Company		Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	WV Department of Environmental Protection	was the constraint of	0663/0001

<sup>\*</sup>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.

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

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Ronald P. Webb Lease			
Ronald P. Webb	Antero Resources Corporation	1/8	0044/0697
Carol J. Knapp Lease			
Carol J. Knapp	JB Production Company	1/8	0388/0141
JB Production Company	Statoil USA Onshore Properties	Assignment	0469/0419
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
Anthony Bruce Parr et ux Lease			
Anthony Bruce Parr et ux	Antero Resources Corporation	1/8+	0031/0727
Nancy L. Mains Lease			
Nancy L. Mains	Antero Resources Corporation	1/8+	0504/0357
Larry Stevens Lease			
Larry Stevens	Antero Resources Corporation	1/8+	0587/0787
Elizabeth Ann Weekley Lease (TM 28 PCL 44)			
Elizabeth Ann Weekley	Antero Resources Corporation	1/8+	0559/0074
Elizabeth Ann Weekley Lease (TM 28 PCL 45)			
Elizabeth Ann Weekley	Antero Resources Corporation	1/8+	0559/0074
Wanda J. Parr Lease			
Wanda J. Parr	Antero Resources Corporation	1/8+	0420/0382
Lucille Adams Lease			
Lucille Adams	Antero Resources Corporation	1/8+	0565/0371
Dale H. Parr Lease			
Dale H. Parr	Antero Resources Corporation	1/8+	0500/0110

Office of Oil and Gas SEP 1 4 2020

Environmental Protection