

#### 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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, July 15, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for Perna Unit 1H

47-017-06982-00-00

Extended Lateral 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.

ames A Martin

Operator's Well Number: Perna Unit 1H

Farm Name: Shawn A Glaspell

U.S. WELL NUMBER: 47-017-06982-00-00

Date Modification Issued: 7/15/2024

Horizontal 6A New Drill

Promoting a healthy environment.

API NO. 4470-1706982 OPERATOR WELL NO. Perna Unit 1H MO

Well Pad Name: Crimson Pad

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

I) Well Operator: Antero Resou	urces Corpora	494507062	017-Doddrig M	<b>1</b> cLellan	Center Point 7.5'
		Operator ID	County I	District	Quadrangle
2) Operator's Well Number: Pern	na Unit 1H MOD	Well Pac	Name: Crimson	n Pad	
3) Farm Name/Surface Owner: S	hawn A. Glaspe	Public Roa	d Access: Riggir	ns Run	
4) Elevation, current ground: 12	249' Ele	evation, proposed	post-construction	: 1222'	
5) Well Type (a) Gas X	Oil	Und	erground Storage		
Other					
(b)If Gas Shall	ow X	Deep			
Horiz	zontal X				
6) Existing Pad: Yes or No Yes			_		
<ol> <li>Proposed Target Formation(s), Marcellus Shale: 7700' TVD, Ant</li> </ol>					
8) Proposed Total Vertical Depth:	: 7700' TVD				
9) Formation at Total Vertical De	TAX - CONTRACT - CONTR	5			
10) Proposed Total Measured Dep	00.4001.14	D			
11) Proposed Horizontal Leg Len	gth: 12383.6'				
12) Approximate Fresh Water Str	ata Depths:	303', 953'			
13) Method to Determine Fresh V	Vater Depths: 4	7-017-00483			
14) Approximate Saltwater Depth	ns: 2123'				
15) Approximate Coal Seam Dep	ths: None Iden	tified			
16) Approximate Depth to Possib	ole Void (coal mi	ne, karst, other):	None Anticipate	d	
17) Does Proposed well location of directly overlying or adjacent to a		ns Yes	NoNo	X of	RECEIVED ffice of Oil and Gas
(a) If Yes, provide Mine Info:	Name:				JUL 1 2 2024
	Depth:				W Department of
	Seam:			E	WV Department of Environmental Protection
	Owner:				
		Ju	7-10-2	Z	
			7-10-2	4	Page 1 of 3

WW-6B (04/15) API NO. 47-\_017\_\_-

OPERATOR WELL NO. Perna Unit 1H MOD

Well Pad Name: Crimson Pad

### 18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 89 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	1003	1003	CTS, 1045 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#	22400	22400	4717 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	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~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** 

		<u>PACKERS</u>	RECEIVED Office of Oil and Gas
Kind:	N/A		JUL 1 2 2024
Sizes:	N/A		1700
Depths Set:	N/A		W Department of Environmental Protection

Juney The 7-10-24 Page 2 of 3

WW-6B (10/14)

4701706982

API NO. 47- 017

OPERATOR WELL NO. Pema Unit 1H MOD

Well Pad Name: Crimson Pad

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

Drill a new horizontal shallow well into the Marcellus Shale.

\*Antero will be air drilling the freshwater string which makes it difficult to determine when freshwater is encountered.

Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all freshwater zones are covered.

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): 36.89 acres

22) Area to be disturbed for well pad only, less access road (acres): 14.46 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/L cement.

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

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

25) Proposed borehole conditioning procedures:

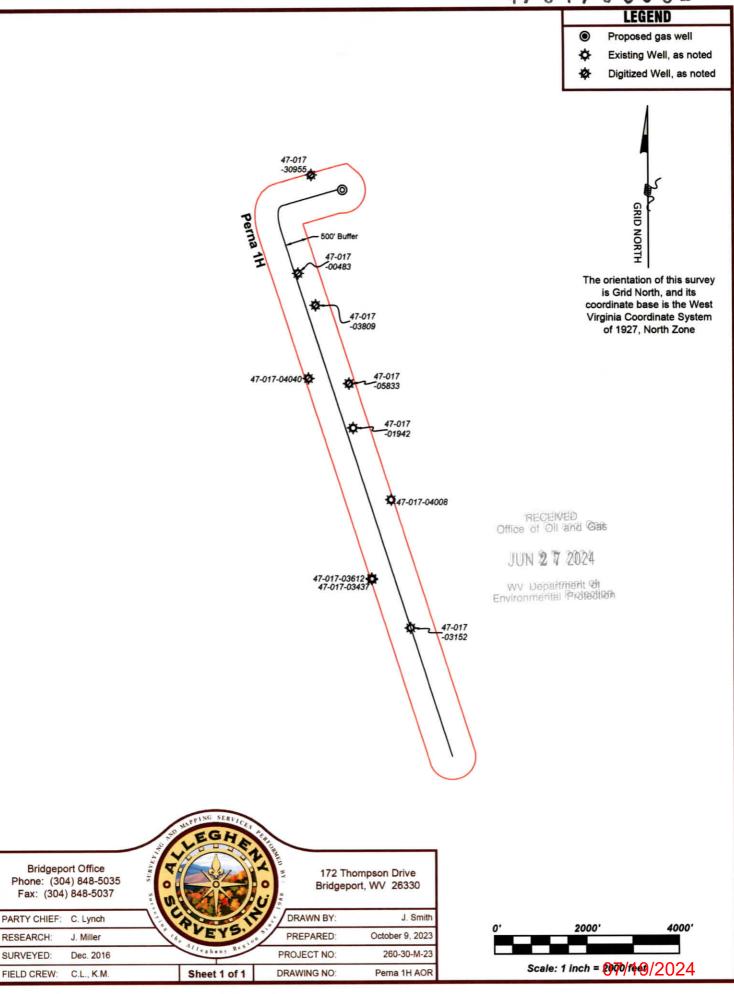
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

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

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, 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.



Tana (Apple)	Mell Name	Well Number	Onerator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
			Olivers state our pro-	OHAVED STATE OIL BEG	2 840		Big Injun, Gordon Stray, Gordon	Weir, Benson, Alexander
01/309550000	M V UNDERWOOD	7	COANER STATE OIL NEG	COMPLETING			201 - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Moir Boncon Alexander
000000000000000000000000000000000000000	APTUILD DOAK ET AL	1	P G OII & GAS INC	TRAVISRL	2,794		Big Injun	weir, benson, Alexander
	1	25.40	OH MOLLEN BROWNING	CNG DEVELOPMENT CO	5.428	5131 - 5136	Benson	Weir, Alexander
7017038030000	DOAKAG	2043	DIVERSIFIED FRODUCTION LEC	CHO DE FEED MENT CO				
7017058330000	DOAKAG	3	PETROLEUM DEV CORP	PETROLEUM DEV CORP		The second secon		-
000000000000000000000000000000000000000		2270	DIVERSIEIED PRODUCTION 11C	CONSOL GAS SUPLY CRP	2.318		Maxton, Big Injun, Bradford, Riley, Benson, Alexander	Weir
01/015420000	P ASH	3513	DIVERSITY INCOME.		1		4	Mair Alexander
000000000000000000000000000000000000000	CHARRELENGELAMBERTETA	1	DIVERSIFIED PRODUCTION LLC	PETROLEUM DEV CORP	5,441	5319 - 5322	Benson	well, Alexander
		-	Control of the contro			de de la constitución de la cons	Media	Wair Rancon Alexander
NHOI TTOM MOTT IOHN	MOIT IOHN	3	CABOT OIL & GAS CORP	SCOTT OIL CO	2,225	1990 - 2040	MAXION	Ment deligon, Medical
TOTAL COLOR		6 574	OH OO MOLLISHIOON SHOO	SCOTT OIL CO	5 457	5308 - 5311	Benson	Weir, Alexander
/01/0343/0000	MOLLION N	3-3/4	OWS ACCOUNTION COLLEC	Section of the			4	Main Alasmahar
0000021520000	MHOI TTOM	1	OWS ACQUISITION COLLC	SCOTT OIL CO	5,213	5065 - 5070	Benson	weil, Alexandel
	DOAK DITAINE CTAI		DIVERSIEIED PRODUCTION 110	PETROLEUM DEV CORP	5,339	5187 - 5191	Benson	Weir, Alexander

RECEIVED Office of Oil and Gas

JUN 2 7 2024

WV Department of Environmental Protection WW-6A1

Operator's Well Number

Perna Unit 1H MOD

# 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
N: Minda Allen Lease Minda Allen W. B. Allen South Penn Oil Company Pennzoil Company Pennzoil Products Company Pennzoil Exploration and Production Company Pennz Energy Exploration and Production LLC Devon Energy Production Company L.P East Resources Inc East Resources Inc and HG Energy LLC American Energy Marcellus LLC Ascent Resources — Marcellus LLC Tribune Resources, LLC	W. B. Allen South Penn Oil Company Pennzoil Company Pennzoil Products Company Pennzoil Exploration and Production Company Pennz Energy Exploration and Production LLC  Devon Energy Production Company L.P East Resources Inc East Resources Inc and HG Energy LLC American Energy Marcellus LLC Ascent Resources – Marcellus LLC Tribune Resources, LLC Antero Resources Corporation	Assignment Name Change Deed Deed Deed Office of Oil a  Merger Assignment Assignment Assignment Name Change Merger Assignment Assignment Assignment Name Change Merger Assignment	2024
A: Thomas H. Downs Lease Thomas H. Downs	Antero Resources Corporation	1/8+	515/362
B: Robert O. Hopkins Lease Robert O. Hopkins	Antero Resources Corporation	1/8+	527/357
C: Arthur G. Doak, et al Lease Arthur G. Doak, et al Robert L. Travis Ollie Travis Donald Gene Travis Tonda Rae Learner	Robert L. Travis Ollie Travis Donald Gene Travis Tonda Rae Learner Antero Resources Corporation	1/8 Appraisement Will Book Affidavit Assignment	66/73 8/243 10/117 WVSOS 528/320
D: Arthur G. Doak, et ux Lease Arthur G. Doak, et ux Clarence W. Mutschelknaus CNG Development Company CNG Producing Company Dominion Exploration and Production Inc. CONSOL Gas Company CNX Gas Company LLC Antero Resources Appalachian Corporation	Clarence W. Mutschelknaus CNG Development Company CNG Producing Company Dominion Exploration and Production Inc. CONSOL Gas Company CNX Gas Company LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Merger Name Change Name Change Merger Agreement Name Change	151/113 151/5713 167/210 286/144 292/469 260/631 46/523
E: Kathleen E. Davis, et al Lease Kathleen E. Davis, et al Petroleum Development Corporation PDC Mountaineer LLC Antero Resources Appalachian Corporation	Petroleum Development Corporation PDC Mountaineer LLC Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Assignment <b>Name Change</b>	169/353 240/118 278/607 <b>46/523</b>

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Pag
: A. H. Low, et ux Lease .H. Low, et ux	Hope Natural Gas Company	1/8	27/336
ope Natural Gas Company	Consolidated Gas Supply Corporation	Merger	143/345
onsolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	135/583
onsolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	135/583 328/398 332/570 245/1 293/252 293/252 293/252 293/252 293/252 293/252 293/252 293/252 293/252 293/252 293/252 293/252
NG Transmission Corporation	Dominion Transmission, Inc	Name Change	WED d Gas 332/570
ominion Transmission, Inc	CONSOL Energy Holdings, LLC XVI	Assignment RE	CENT and 245/1
ONSOL Energy Holdings, LLC XVI	CONSOL Gas Company	Merger O	293/252
ONSOL Gas Company	CNX Gas Company, LLC Noble Energy, Inc.	Merger Office Assignment	260/39
NX Gas Company, LLC loble Energy, Inc.	HG Energy II Appalachia, LLC	Assignment	N 5 1388/34
G Energy II Appalachia, LLC	Antero Resources Corporation	Assignment	protect 508/77
o chergy if Appalachia, the	Antero Resources corporation	1	VV prental
: CNX Gas Company, LLC Lease		En	N 2 7 2024 293/252 N 2 7 2024 260/39 N 2 7 260/39 Or 260/39 N Department of 260/39
NX Gas Company LLC	Antero Resources Corporation	1/8+	523/705
Cliff Wilson & Opal Wilson Lease	Claude C. Cottrille	1/8	91/94
liff Wilson & Opal Wilson laude C. Cottrille	Collie Cecil Shrader	Assignment	91/101
collie Cecil Shrader	Violet Vircha Shrader	Will Book	9/168
iolet Vircha Shrader	Bette L. Freedman, Dr Janise Louis	Miscellaneous	14/167
	Dye McIlhany, Cecil Lynn Shrader	Book	
ette L. Freedman, Dr Janise Louis	Wilco Oil and Gas Company	Civil Order	16/180
ye McIlhany, Cecil Lynn Shrader			
Vilco Oil and Gas Company	Antero Resources Corporation	Assignment	311/457
: Brenda V. Ney Lease		1/0.	F10/F03
renda V. Ney	Antero Resources Corporation	1/8+	518/503
: Margaret J. & Martha A. McMillan Lease			
Margaret J. & Martha A. McMillan	Hope Natural Gas Company	1/8	25/354
lope Natural Gas Company	Consolidated Gas Transmission Corporation	Assignment	143/345
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	332/563 167/416
CNG Transmission Corporation	UMC Petroleum Corporation	Assignment Assignment	227/252
JMC Petroleum Corporation	Ashland Exploration Inc	Name Change	WVSOS
Ashland Exploration Inc Ashland Exploration Holdings Inc	Ashland Exploration Holdings Inc Blazer Energy Corp	Assignment	181/421
Blazer Energy Corp	Eastern States Oil & Gas Inc	Name Change	WVSOS
Eastern States Oil & Gas Inc	Equitable Production Eastern States Inc	Name Change	WVSOS
quitable Production Eastern States Inc	Equitable Production Company	Merger	WVSOS
quitable Production Company	<b>EQT Production Company</b>	Name Change	WVSOS
QT Production Company	Antero Resources Corporation	Assignment	531/670
.: Mary A. Murphy Simons Lease			

WW-6A1

Operator's Well Number

Perna Unit 1H MOD

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Grantor, lessor, etc.

Grantee, lessee, etc.

Royalty

Book/Page

\*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.

\*Cotenancy Utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

\*\*Pooling/Unitization – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract



WW-6A1 (5/13) Operator's Well No. Perna Unit 1H MOD

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
M: Stauley Gain, et al Lease	Stanley Gain, et al Carey Oil Company M. E. Wilkinson James F. Scott Emax Oil Company	Carey Oil Company M. E. Wilkinson James F. Scott Emax Oil Company Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment	87/45 87/79 96/13 161/1 <b>342/346</b>

Office of Oil and Gas

JUN 2 7 2024

WV Department of Environmental Protection

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

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

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

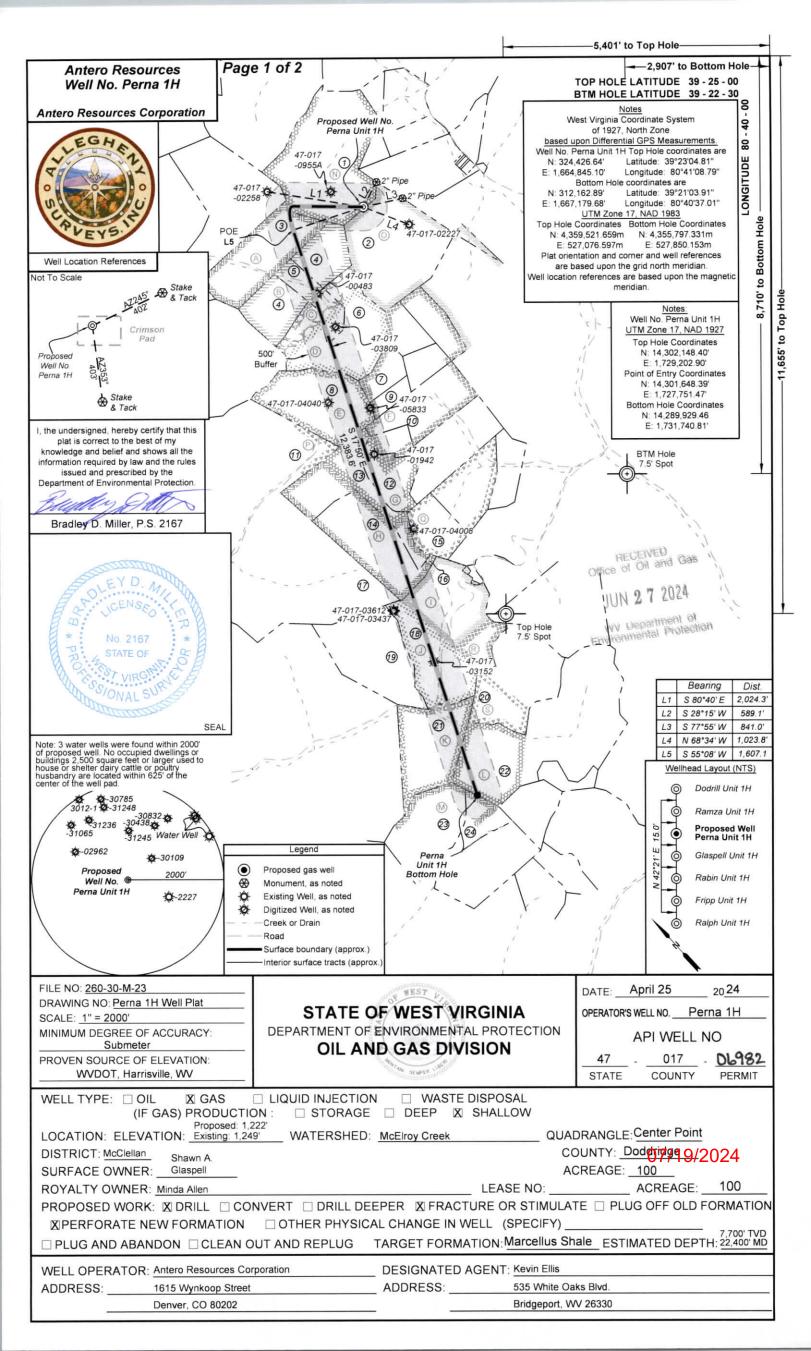
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity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

Well Operator: Antero Resources Corporation

By: Max Green

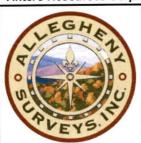
Vice President of Land

Page 1 of 1



Antero Resources Well No. Perna 1H Page 2 of 2

Antero Resources Corporation



	Leases
Α	Thomas H. Downs
В	Robert O. Hopkins
С	Arthur G. Doak, et al
D	Arthur G. Doak, et ux
Е	Kathleen E. Davis, et al
F	Shawn Glaspell
G	A.H. Low, et ux
Н	CNX Gas Company, LLC
1	Cliff Wilson & Opal Wilson
J	Brenda V. Ney
K	Margaret J. & Martha A. McMillan
L	Mary A. Murphy Simons
М	Stanley Gain, et al
N	Minda Allen
0	Morris Mountaineer Oil & Gas LLC
Р	Herbert Doak, et al
Q	CNX Gas Company, LLC
R	Brian A. Moreno & Diane P. Blanchette
S	Romona L. Clauson

ID	TM-Par	Owner	Bk/Pg	Acres
1	17-3.3	Shawn A. Glaspell	283/601	100.00
2	17-3.2	Shawn A. Glaspell	283/601	135.00
3	17-13	Shawn A. Glaspell	468/444	65.00
4	17-16	Faith L. Fry	238/167	36.84
5	17-18.1	Faith L. & Michael Fry	342/340	19.50
6	17-18	Faith L. Fry	238/167	80.14
7	17-19	Shawn A. Glaspell	372/215	13.82
8	6-6	Duaine Doak, et al	WB31/416	50.00
9	17-25	Shawn A. Glaspell	372/215	7.89
10	17-21	Patrick M. MacMillan	379/615	30.69
11	3-2	Ryan Thomas Nissel	372/405	54.63
12	22-1	Donald V. Sandstrom	266/650	34.63
13	6-11.1	Danny R. & Joyce A. Groover	301/149	44.94
14	6-11	Danny R. & Joyce A. Groover	301/149	47.30
15	22-3.1	George D. Payton & Donald V. Sandstrom	236/354	24.11
16	6-11.2	Danny R. & Joyce A. Droover	301/149	0.64
17	6-10	Margot Beth Crowder	305/722	218.61
18	6-16	Brian A. Moreno & Diane P. Blanchette	389/382	104.80
19	6-23.1	Coastal Forest Resources Co.	260/135	52.00
20	6-17	Clyde M. Ford III	234/474	65.6
21	6-23	Werner F. Blei	272/340	52.50
22	7-1	Steven M. & Mary Ellen Perna	286/506	132.54
23	9-5.1	Josephine J. Donnahoe	WB31/4	48.75
24	9-6	Josephine J. Donnahoe	WB31/4	17.00

FILE NO: <u>260-30-M-23</u>	
DRAWING NO: Perna 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

WEST P

DATE: April 25 20 24 OPERATOR'S WELL NO. Perna 1H API WELL NO

Cubmotor	OU AND CAC DIVICION	7
Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV	OIL AND GAS DIVISION	47 - 017 - 06982 STATE COUNTY PERMIT
WELL TYPE: OIL X GAS (IF GAS) PRODUCTION (Proposed: 1,2		
LOCATION: ELEVATION: Existing: 1,24	9' WATERSHED: McElroy Creek	QUADRANGLE: Center Point
DISTRICT: McClellan Shawn A.		COUNTY: Doddridge 9/2024 ACREAGE: 100
SURFACE OWNER:Glaspell		
ROYALTY OWNER: Minda Allen		: ACREAGE:100
PROPOSED WORK: X DRILL CO	NVERT   DRILL DEEPER   FRACTURE OR STIME	MULATE $\square$ PLUG OFF OLD FORMATION
	☐ OTHER PHYSICAL CHANGE IN WELL (SPECIF	
□ PLUG AND ABANDON □ CLEAN C	OUT AND REPLUG TARGET FORMATION: Marcell	us Shale ESTIMATED DEPTH: 22,400' MD
WELL OPERATOR: Antero Resources Co	rporation DESIGNATED AGENT: Kevin B	Ellis
ADDRESS: 1615 Wynkoop Street		hite Oaks Blvd.
Denver, CO 80202	WANTA DEFICACION PARKO	port, WV 26330