

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, August 22, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Re:

Permit Modification Approval for READER 2H

47-103-03497-00-00

Lateral Extension

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.

Operator's Well Number: READER 2H

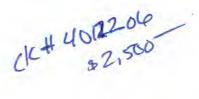
Farm Name: JAMES ALLEN SELL

U.S. WELL NUMBER: 47-103-03497-00-00

Horizontal 6A New Drill Date Modification Issued: 8/22/2022

Promoting a healthy environment.

WW-6B (04/15)



API NO. 47- 103	_ 03497		
OPERATOR W	ELL NO.	Reader Unit 2H MOD	,
Well Pad Nam	- Furbe	e Pad	

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

1) Well Operator: Antero Resources Corporal 494507062 013-Wetzel	Green Pine Grove 7.5'
1) Well Operator: Antero Resources Corporal 494507062 013-Wetzel Operator ID County	District Quadrangle
2) Operator's Well Number: Reader Unit 2H MOD / Well Pad Name: Furbee	
3) Farm Name/Surface Owner: James Allen Sell Public Road Access: Furb	ee Ridge Road
4) Elevation, current ground: 1240' Elevation, proposed post-construction	n: ~1212'
5) Well Type (a) Gas X Oil Underground Storage	e
Other	
(b)If Gas Shallow X Deep	
Horizontal X 6) Existing Pad: Ves or No. No.	
6) Existing Pad: Yes or No No No No Anticipated Thickness and Expected Property of the Prope	accura(c):
 Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pro- Marcellus Shale: 7600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 28 	
8) Proposed Total Vertical Depth: 7600' TVD	
9) Formation at Total Vertical Depth: Marcellus	
10) Proposed Total Measured Depth: 25500' MD	TO STORE COM
11) Proposed Horizontal Leg Length: 15153.2'	MIG 1 1 2022
12) Approximate Fresh Water Strata Depths: 575'	And aparting of of
13) Method to Determine Fresh Water Depths: 47103308970000	Environmental
14) Approximate Saltwater Depths: 2284'	
15) Approximate Coal Seam Depths: 973'	
16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipate	ed
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No	x
(a) If Yes, provide Mine Info: Name:	
Depth:	
Seam:	
Owner:	

API NO. 47- 103 - 03497

OPERATOR WELL NO. Reader Unit 2H MOD Well Pad Name: Furbee 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	79#	80	80	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	625	625	CTS, 651 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	20#	25500	25500	CTS, 5508 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners	in Lami						

Month 2 Shapold 2-19-22

Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
20"	24"	0.375"	2250	50	Class A	~1.18
13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/H	~1.18
2-3/8"	4.778"	0.19"	11,200			
	20" 13-3/8" 9-5/8" 5-1/2"	Diameter (in)	Size (in) Wellbore Diameter (in) Thickness (in) 20" 24" 0.375" 13-3/8" 17-1/2" 0.38" 9-5/8" 12-1/4" 0.352" 5-1/2" 8-3/4" & 8-1/2" 0.415"	Size (in) Wellbore Diameter (in) Thickness (in) Burst Pressure (psi) 20" 24" 0.375" 2250 13-3/8" 17-1/2" 0.38" 2730 9-5/8" 12-1/4" 0.352" 3520 5-1/2" 8-3/4" & 8-1/2" 0.415" 14,360	Size (in) Wellbore Diameter (in) Thickness (in) Burst Pressure (psi) Max. Internal Pressure (psi) 20" 24" 0.375" 2250 50 13-3/8" 17-1/2" 0.38" 2730 1000 9-5/8" 12-1/4" 0.352" 3520 1500 5-1/2" 8-3/4" & 8-1/2" 0.415" 14,360 2500	Size (in) Wellbore Diameter (in) Thickness (in) Burst Pressure (psi) Max. Internal Pressure (psi) Cement Type 20" 24" 0.375" 2250 50 Class A 13-3/8" 17-1/2" 0.38" 2730 1000 Class A 9-5/8" 12-1/4" 0.352" 3520 1500 Class A 5-1/2" 8-3/4" & 8-1/2" 0.415" 14,360 2500 Class G/H

		PACKERS	DEGEIVED AUG 2 2 2022
Kind:	N/A		ву_00С
Sizes:	N/A		
Depths Set:	N/A		

WW-6B (10/14) API NO. 47- 103 - 03497

OPERATOR WELL NO. Reader Unit 2H MOD

Well Pad Name: Furbee 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.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water 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): 30.09 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 13.86 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

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

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

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

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

Conductor: no additives, Class A cement.

Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake

Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

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

25) Proposed borehole conditioning procedures:

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

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

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

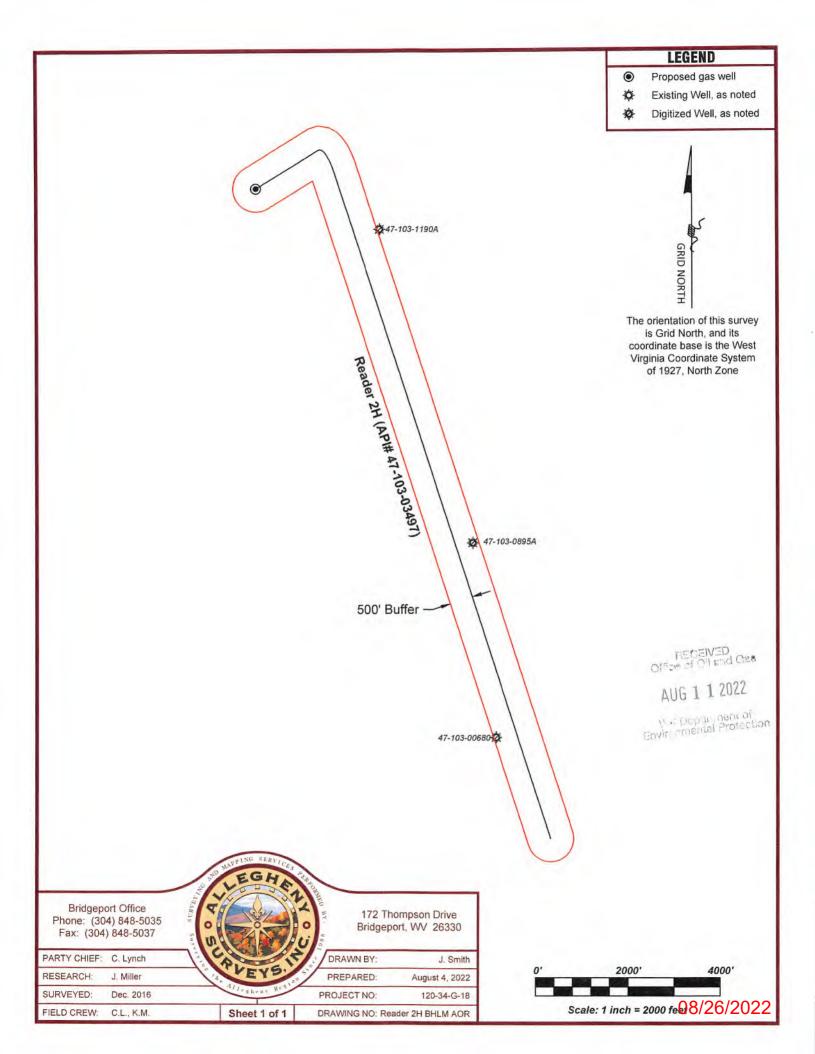
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls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

*Note: Attach additional sheets as needed.

Page 308/26/2022

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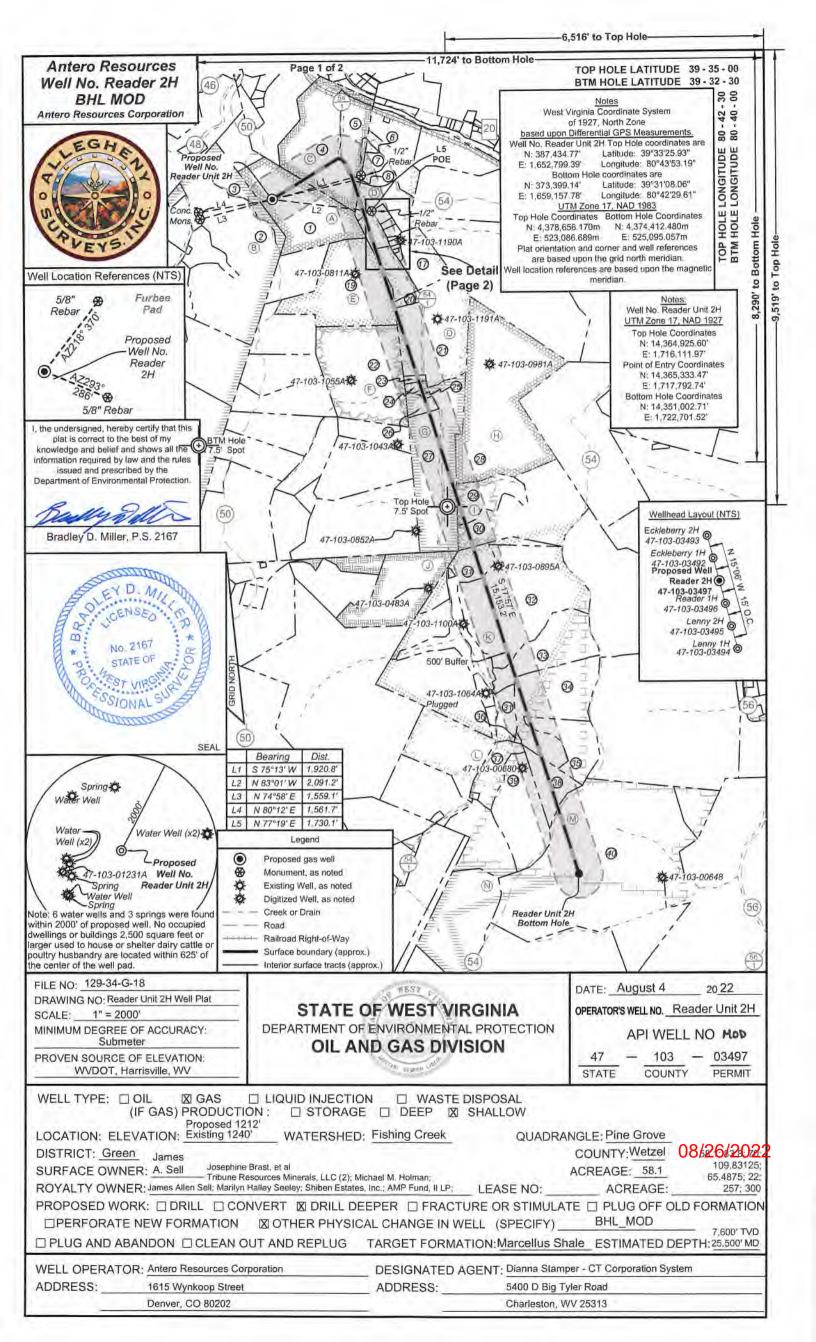
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UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47103311900000	F M STREIGHT ETAL 2	2457	MANUFACT LIGHT &HEAT	MANUFACT LIGHT & HEAT				
47103308950000	AARON BASSETT	4223	HOPE NATURAL GAS	HOPE NATURAL GAS	2,804		Big Injun, Gordon	Weir, Benson, Alexander
47103006800000	J BRAST	1055	EQT PRODUCTION CO	CONSOL GAS SUPLY CRP	2,166		Big Injun	Weir, Benson, Alexander

AUG 1 1 2022

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Antero Resources Well No. Reader 2H **BHL MOD**

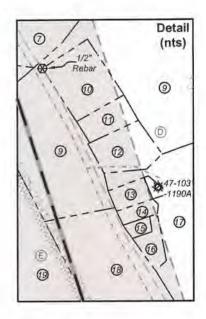
Antero Resources Corporation



Page 2 of 2

	Leases
A	James Allen Sell
В	William R. Stalnaker
C	Marilyn Halley Seeley
D	Tribune Resources Minerals, LLC
E	Shiben Estates, Inc.
F	BRC Appalachian Minerals I, LLC
G	AMP Fund II, LP
H	AMP Fund II, LP
1	Michael M. Holman
J	BRC Appalachian Minerals I, LLC
K.	Tribune Resources Minerals, LLC
L	Joshua R. Edgell, et al
M	Josephine Brast, et al
N	Shiben Estates, Inc.

ID	TM-Par	Owner	Bk/Pg	Acres
1	17-12	James Allen Sell	370/148	58.10
2	17-60	Ross Bucher	411/765	79.00
3	17-1	James Allen Sell	370/148	15.35
4	13-71	Charles R. & Kay L. Blair	387/577	63.11
5	17-71.1	Clarence L. & Carol J. Lancaster	387/266	19.19
6	17-3.1	Bradford D. Highley	386/607	1.00
7	17-3	Bradford Highley	386/607	17.00
8	17-2	Clarence & Carol Lancaster	287/357	0.50
9	17-14	Bradford Highley	386/607	18.53
10	17-14.2	Michael & Tammy Lemasters	384/10	2.18
11	17-14.1	Michael Lemasters	331/413	0.93
12	17-13	Russell & Carol Walls	416/637	1.53
13	17-19.4	Everett Haught	293/243	0.52
14	17-19.1	Lloyd Bassett	270/106	0.35
15	17-19.5	Mitchel Eddy	415/429	0.24
16	17-19.3	Howard & Patricia Bassett	280/136	0.81
17	17-19	Donna Bassett	299/614	19.10
18	17-18	Samuel Highley	387/408	12.07
19	17-17	James Allen Sell	370/148	70.00
20	17-27	Eliza Louiza Highley	303/352	2.70
21	17-29	Leslie & Georgia Bassett	319/394	66.00
22	17-26	Heartland Forest Land Fund VII, LP	431/936	75.50
23	17-29.2	Michael & Terresa Bassett	336/110	1.56
24	17-29.1	Robert & Kathy Bassett	336/427	1.92
25	17-36	Heartland Forest Land Fund VII, LP	431/936	0.49
26	17-37	Heartland Forest Land Fund VII, LP	431/936	5.00
27	17-38	Heartland Forest Land Fund VII, LP	431/936	60.00
28	17-31	Heartland Forest Land Fund VII,LP	431/936	120.33
29	17-49	Heartland Forest Land Fund VII, LP	431/936	20.90
30	17-50	EIP III, West Virginia LLC	463/193	69.00
31	20-14	Robert Bassett	371/32	126.74
32	20-14.4	Matthew D. Bassett, et al	421/365	97.18
33	20-14.2	Coastal Forest Resources Co.	444/105	37.40
34	20-14.1	Coastal Forest Resources Co.	444/105	49.25
35	20-21	Coastal Forest Resources Co.	444/105	29.00
36	20-20.1	Robert Bassett	371/32	0.44
37	20-19	Coastal Forest Resources Co.	444/105	16.44
38	20-20	Coastal Forest Resources Co.	444/105	26.00
39	20-19.2	Coastal Forest Resources Co.	444/105	35.56
40	20-37	Coastal Forest Resources Co.	444/105	246.8



FILE NO: 129-34-G-18

DRAWING NO: Reader Unit 2H Well Plat

1" = 2000" SCALE:

MINIMUM DEGREE OF ACCURACY:

Submeter

SURFACE OWNER: A. Sell

PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

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

TEST

DATE: August 4 20 22

OPERATOR'S WELL NO. Reader Unit 2H

API WELL NO MOD

47 103 - 03497 COUNTY PERMIT STATE

TTVBOT, Harristino, TTV	
WELL TYPE: □ OIL ⊠ GA	AS LIQUID INJECTION WASTE DISPOSAL
	DUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW osed 1212'
LOCATION: ELEVATION: Exist	ng 1240' WATERSHED: Fishing Creek QUA
DISTRICT: Green James	

Josephine Brast, et al.

SURFACE OWNER: A. Sell Sosphiller Besources Minerals, LLC (2); Michael M. Holman; ROYALTY OWNER; James Allen Sell; Marilyn Halley Seeley; Shiben Estates, Inc.; AMP Fund, II LP;

DRANGLE: Pine Grove

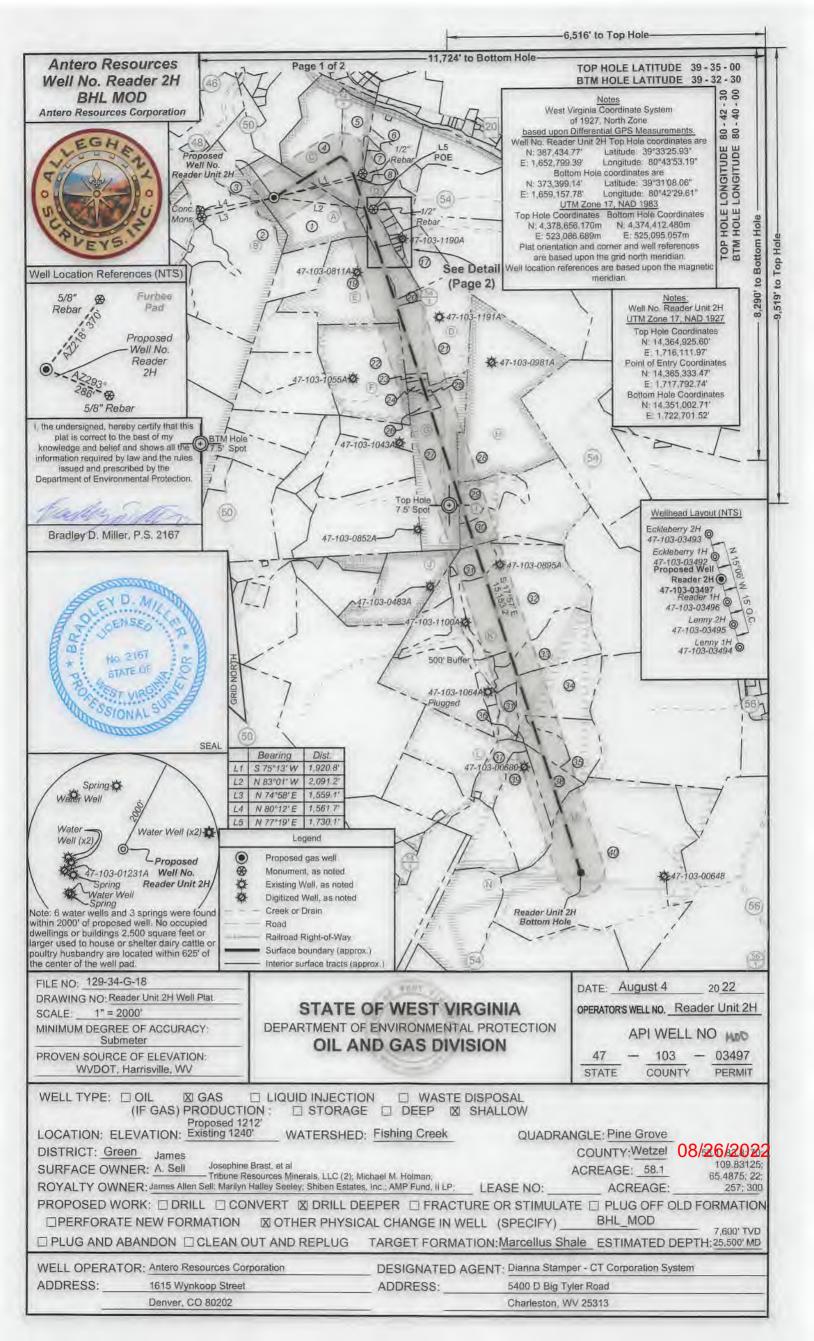
COUNTY: Wetzel 08 202 109.83125 ACREAGE: 58.1 65.4875; 22;

LEASE NO: ACREAGE:

PROPOSED WORK: ☐ DRILL	□ CONVERT	☑ DRILL DEEPER	☐ FRACTURE	OR STIMULATE	☐ PLUG OFF O	LD FORMATION
□PERFORATE NEW FORMAT	TION X OT	HER PHYSICAL CH	ANGE IN WELL	(SPECIFY)	BHL_MOD	

□PERFORATE NEW FORMATION	☑ OTHER PHYSIC	CAL CHANGE IN WELL	(SPECIFY)	BHL_MOD	7.600' TVD
☐ PLUG AND ABANDON ☐ CLEAN O	JT AND REPLUG	TARGET FORMATION	:Marcellus Shale	ESTIMATED DEPTH	- 10 mm

WELL OPERATOR: Antero Resources Corporation		DESIGNATED AGENT	: Dianna Stamper - CT Corporation System	
ADDRESS:	1615 Wynkoop Street	ADDRESS:	5400 D Big Tyler Road	
	Denues CO 90000		Charleston WV/ 05343	



Antero Resources Well No. Reader 2H **BHL MOD**

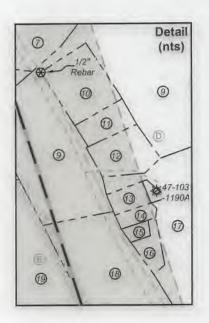
Antero Resources Corporation



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FILE NO: 129-34-G-18 DRAWING NO: Reader Unit 2H Well Plat 1" = 2000' SCALE: _ 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: August 4 OPERATOR'S WELL NO. Reader Unit 2H

API WELL NO MA

 $\frac{47}{\text{STATE}} - \frac{103}{\text{COUNTY}} - \frac{03497}{\text{PERMIT}}$

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION: ☐ STORAGE Proposed 1212' LOCATION: ELEVATION: Existing 1240' WATERSHED	DEEP 🛛	SHALLOW QUADRANG	SLE: Pine Grove	08/26/2032	
DISTRICT: Green James SURFACE OWNER: A. Sell Josephine Brast, et al Tribune Resources Minerals, LLC (2). Michael M. Holman; ROYALTY OWNER: James Allen Sell; Marilyn Halley Seeley; Shiben Estates, Inc.; AMP Fund, II LP: LEASE NO: ACREAGE: 257; 300					
PROPOSED WORK: □ DRILL □ CONVERT ☒ DRILL DEEPER □ FRACTURE OR STIMULATE □ PLUG OFF OLD FORMATION □ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL_MOD 7,600' TVD					
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,500° MD					
WELL OPERATOR: Antero Resources Corporation		GENT: Dianna Stamper		stem	
ADDRESS: 1615 Wynkoop Street Denver, CO 80202	_ ADDRESS:	5400 D Big Tyler Charleston, WV 2			

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
A: Jame	s Allen Sell Lease			
James A	7	Antero Resources Corporation	1/8+	258A/0467
C: Maril	yn Halley Seeley Lease			
Marilyn	Halley Seeley	EQT Production Company	1/8+	148A/0831
EQT Pro	duction Company	Antero Resources Corporation	Assignment	230A/0801
D: Tribu	ine Resources Minerals, LLC Lease			
200000000000000000000000000000000000000	Resources Minerals, LLC fka Ascent es Marcellus Minerals LLC	Tribune Resources, LLC	1/8	218A/0791
0.000000000	Resources, LLC	Antero Resources Corporation	Assignment	219A/0322
E: Shibe	en Estates, Inc Lease			
Shiben I	Estates, Inc.	Antero Resources Corporation	1/8+	202A/0230
D: Tribu	une Resources Minerals, LLC Lease			
	Resources Minerals, LLC fka Ascent es Marcellus Minerals LLC	Tribune Resources, LLC	1/8	218A/0791
	Resources, LLC	Antero Resources Corporation	Assignment	219A/0322
G: AMP	Fund II, LP Lease			
AMP Fu	nd II, LP	Antero Resources Corporation	1/8+	255A/0685
/ I: Micha	ael M. Holman Lease			
Michael	M Holman, Heir of Sarah Louisa Highley	Antero Resources Corporation	1/8+	247A/0722
-	ne Resources Minerals, LLC Lease			
Tribune	Resources Minerals, LLC	Tribune Resources, LLC	1/8+	218A/0803
Tribune	Resources, LLC	Antero Resources Corporation	Assignment	219A/0322

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AUG 1 1 2022

INV Legans Tent of Environmental Protection

WW-6A1 (5/13)

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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- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or			. .	n 1/n
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
M: Josephine Brast, et al Lea	<u>se</u>			
	Josephine Brast, et al	South Penn Oil Co.	1/8	0049/0591
	South Penn Oil Co.	Hope Natural Gas Company	Assignment	009A/0230
	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Assignment	0233/0387
	Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	066A/0069
	Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Name Change	0013/0151
	CNG Transmission Corporation	Eastern States Oil & Gas Inc	Assignment	076A/0232
	Eastern States Oil & Gas Inc	Equitable Production-Eastern States Inc	Name Change	0013/0014
	Equitable Production-Eastern States Inc	Equitable Production Company	Merger	0013/0014
	Equitable Production Company	EQT Production Company	Name Change	0013/0014
	EQT Production Company	Tribune Resources successor in interest		
		of Ascent Resources-Marcellus LLC fka		
		American Energy-Marcellus LLC	Assignment	179A/0653
	Tribune Resources successor in interest of Ascent Resources-Marcellus LLC fka			
	American Energy-Marcellus LLC	Antero Resources Corporation	Assignment	219A/0322

*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.

- 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

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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:

By: Tim Rady Composition

Its: Senior VP of Land





Modification Horizontal H6A Well Work Permits API: (47-103-03492, 03494, 03495, 03496, & 03497)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Aug 23, 2022 at 5:53 PM

To: Mallory Stanton <mstanton@anteroresources.com>, Diane Blair <dblair@anteroresources.com>, Dani DeVito <ddevito@shalepro.com>, Scott Lemley <slemley@wvassessor.com>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>

I have attached a copy of the newly issued well permit numbers:

47-103-03492 - ECKLEBERRY UNIT 1H 47-103-03494 - LENNY UNIT 1H 47-103-03495 - LENNY UNIT 2H 47-103-03496 - READER 1H 47-103-03497 - READER 2H

These will serve as your copy.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

5 attachments

47-103-03492 - mod.pdf

47-103-03494 - mod.pdf

47-103-03495 - mod.pdf 1225K

47-103-03496 - mod.pdf 1243K

47-103-03497 -mod.pdf 1185K