



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, November 17, 2025
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for OCEAN UNIT 2H
47-095-02950-00-00

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.

A handwritten signature in black ink that reads "H. Jason Harmon".

H. Jason Harmon
Acting Chief

Operator's Well Number: OCEAN UNIT 2H
Farm Name: ANTERO RESOURCES CORPORATION
U.S. WELL NUMBER: 47-095-02950-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/17/2025

Promoting a healthy environment.

11/21/2025

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

- 1) Well Operator: Antero Resources Corporation 494507062 095 - Tyler Lincoln Paden City
Operator ID County District Quadrangle
- 2) Operator's Well Number: Ocean Unit 2H MOD Well Pad Name: Shinn Pad
- 3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: Badger Run Road
- 4) Elevation, current ground: 1036' Elevation, proposed post-construction: 1036'
- 5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow X Deep _____
Horizontal X
- 6) Existing Pad: Yes or No Yes
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 6700' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#
- 8) Proposed Total Vertical Depth: 6700' TVD
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 23700' MD
- 11) Proposed Horizontal Leg Length: 13421'
- 12) Approximate Fresh Water Strata Depths: 328
- 13) Method to Determine Fresh Water Depths: 47-095-02781
- 14) Approximate Saltwater Depths: 1440
- 15) Approximate Coal Seam Depths: N/A
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated
- 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: _____

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WW-6B
(04/15)

API NO. 47- 095 - 02950
OPERATOR WELL NO. Ocean Unit 2H MOD
Well Pad Name: Shinn 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, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	378	378 ✓	CTS, 394 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#	23700	23700 ✓	5044 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A/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

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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

Drill, perforate, fracture a new 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): 38.32 acres

22) Area to be disturbed for well pad only, less access road (acres): 16.29 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.

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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.

LEGEND

- Proposed gas well
- Existing Well, as noted
- Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone

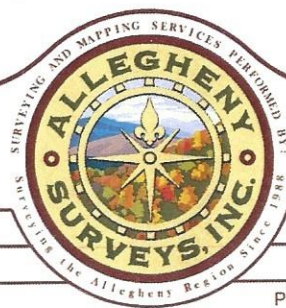
500' Buffer

Ocean 2H

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Scale: 1 inch = 1500 feet

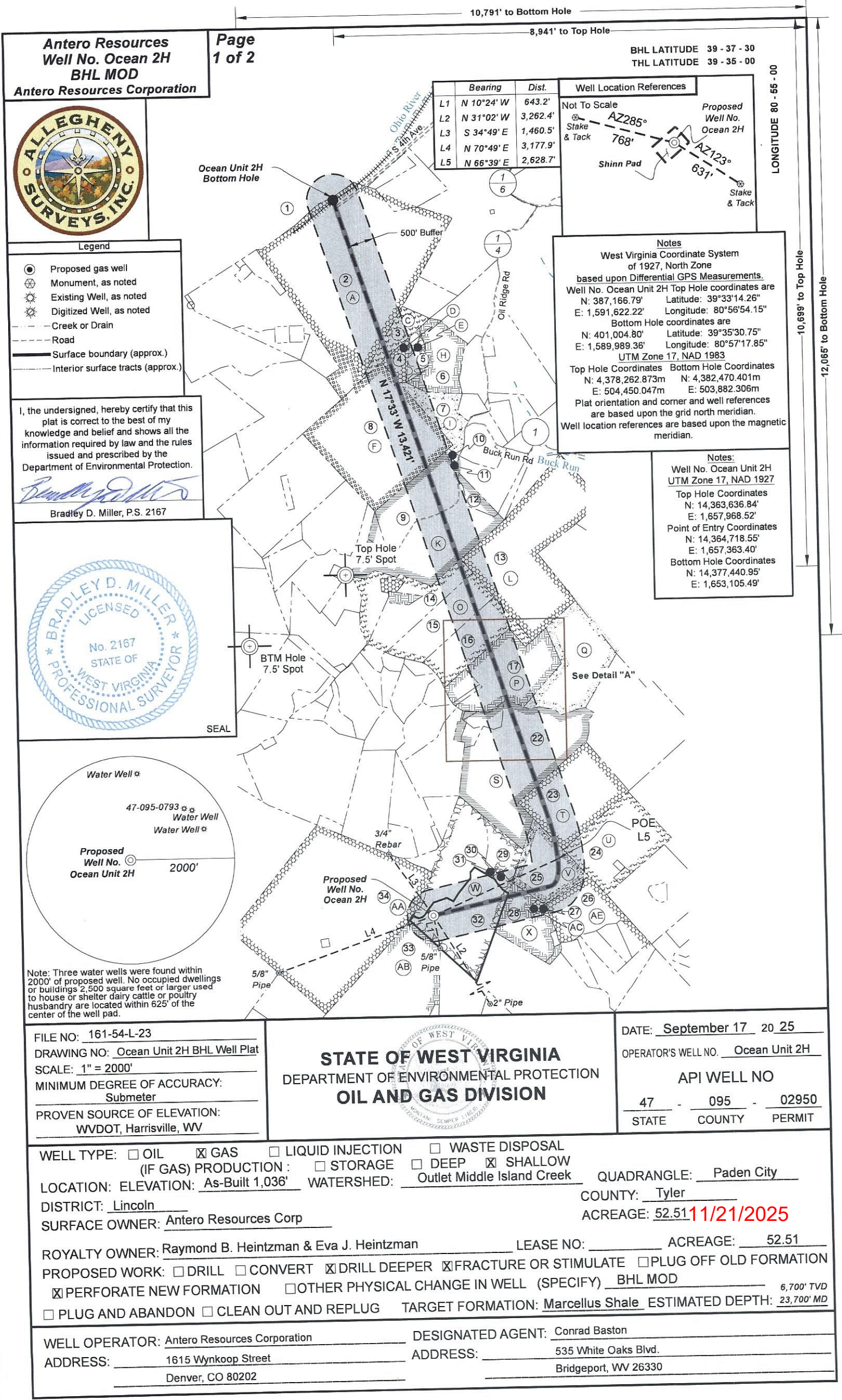


Bridgeport Office
Phone: (304) 848-5035
Fax: (304) 848-5037

172 Thompson Drive
Bridgeport, WV 26330

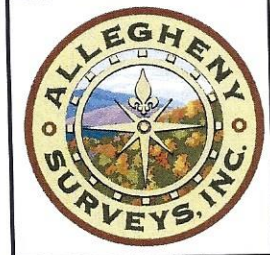
PARTY CHIEF: C. Lynch	DRAWN BY: D. Rader
RESEARCH: J. Miller	PREPARED: October 17, 2025
SURVEYED: Dec. 2016	PROJECT NO: 161-54-L-23
FIELD CREW: C.L., K.M.	SHEET 1 of 1 DRAWING NO: Ocean 2H BHL-MOD AOR

11/21/2025



Antero Resources
Well No. Ocean 2H
BHL MOD
Antero Resources Corporation

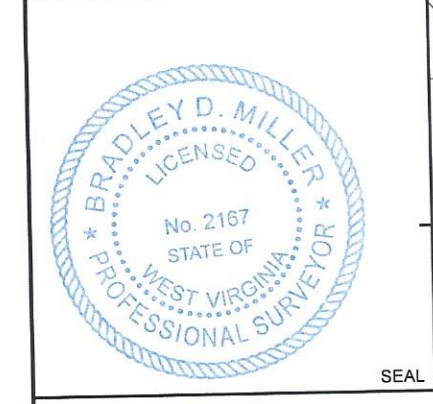
Page
1 of 2



- Legend
- Proposed gas well
 - Monument, as noted
 - Existing Well, as noted
 - Digitized Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller
Bradley D. Miller, P.S. 2167



Water Well

47-095-0793

Water Well

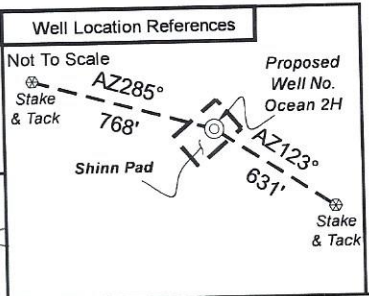
Water Well

Proposed Well No. Ocean Unit 2H

2000'

Note: Three water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

	Bearing	Dist.
L1	N 10°24' W	643.2'
L2	N 31°02' W	3,262.4'
L3	S 34°49' E	1,460.5'
L4	N 70°49' E	3,177.9'
L5	N 66°39' E	2,628.7'



Notes

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Well No. Ocean Unit 2H Top Hole coordinates are N: 387,166.79' Latitude: 39°33'14.26" E: 1,591,622.22' Longitude: 80°56'54.15"

Bottom Hole coordinates are N: 401,004.80' Latitude: 39°35'30.75" E: 1,589,989.36' Longitude: 80°57'17.85"

UTM Zone 17, NAD 1983

Top Hole Coordinates Bottom Hole Coordinates
N: 4,378,262.873m N: 4,382,470.401m
E: 504,450.047m E: 503,882.306m

Plat orientation and corner and well references are based upon the grid north meridian.

Well location references are based upon the magnetic meridian.

Notes:

Well No. Ocean Unit 2H UTM Zone 17, NAD 1927

Top Hole Coordinates
N: 14,363,636.84'
E: 1,657,968.52'

Point of Entry Coordinates
N: 14,364,718.55'
E: 1,657,363.40'

Bottom Hole Coordinates
N: 14,377,440.95'
E: 1,653,105.49'

FILE NO: 161-54-L-23

DRAWING NO: Ocean Unit 2H BHL 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: September 17 20 25

OPERATOR'S WELL NO. Ocean Unit 2H

API WELL NO

47 - 095 - 02950

STATE COUNTY PERMIT

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

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

LOCATION: ELEVATION: As-Built 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City

DISTRICT: Lincoln COUNTY: Tyler

SURFACE OWNER: Antero Resources Corp ACREAGE: 52.51 11/21/2025

ROYALTY OWNER: Raymond B. Heintzman & Eva J. Heintzman LEASE NO: ACREAGE: 52.51

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

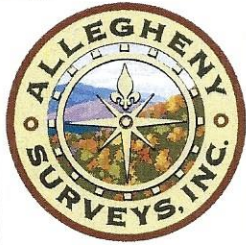
☒ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6,700' TVD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,700' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston

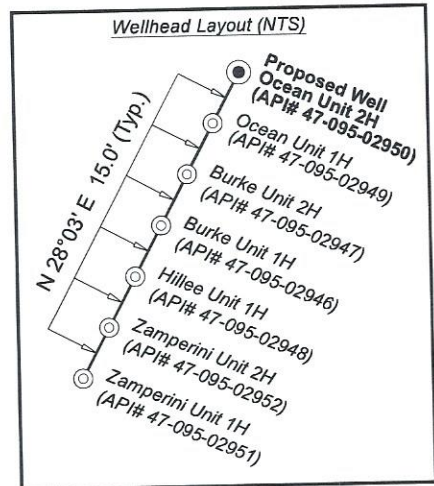
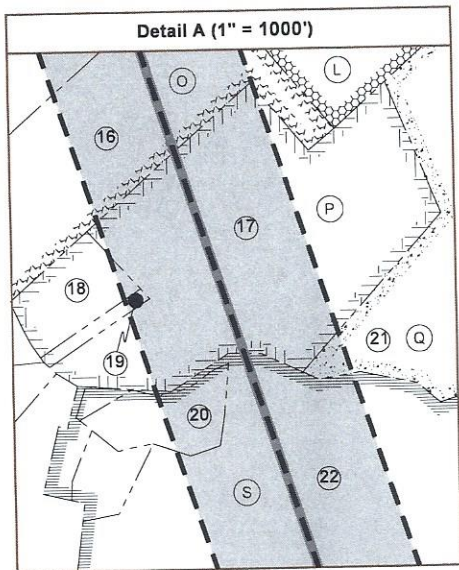
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.

Denver, CO 80202 Bridgeport, WV 26330



Leases	
A	Golden Eagle Resources II, LLC
C	Michael J. Hough
D	John Stanley Starkey
E	Antero Minerals, LLC
F	Greenbrier Royalty Fund II, LLC
H	OCTO Energy, LLC
I	Virgil E. Cooper, et al
K	William J. Patterson, et al
L	John Lewis Renner, II
O	Michael D. Eddy
P	Shirley Myers
Q	Moore Self Storage, North Carolina, LLC
S	BRC Appalachian Minerals I, LLC
T	Bounty Minerals, LLC
U	Theresa J. Drain
V	Drilling Appalachian Corporation
W	Raymond B. Heintzman & Eva J. Heintzman
X	Bounty Minerals, LLC
AA	Nevin Porter, et al
AB	Virginia A. Nalley
AC	Michael V. Smith
AE	M. Sharon Deaton

ID	TM-Par	Owner	Bk/Pg	Acres
1	xx-xx	XX	xx/xx	x.xx
2	1-4	Haessly Hardwood Lumber Company	290/457	166.20
3	4-57	Michael J. Hough & Linda L. Anderson	OR19/795	11.64
4	4-59	Jason & Lindsey Snider	395/344	7.00
5	4-60	Jason W. & Lindsey S. Snider	OR19/232	7.00
6	4-61	Otis & Betty Ruth Workman Est	133/175	18.81
7	4-82.4	Virgil E. & Barbra J. Cooper Life Estate	251/278	13.00
8	4-58	Patrick & Shirley Lancaster	270/272	108.00
9	4-85	Patrick & Shirley A. Lancaster	212/376	86.22
10	4-82	Virgil E. & Barbra J. Cooper Life Estate	444/521	10.90
11	4-84	Virgil C. Cooper	320/388	19.98
12	4-85.2	Samuel R. Gieseke & Erin N. Eakin	375/416	4.67
13	4-76	Scott F. & Jeffery M. Grim	387/119	90.00
14	4-86	Janice M. & Michael D. Eddy	188/546	28.63
15	4-87	Janice M. & Michael D. Eddy	188/546	30.24
16	4-88	Janice M. & Michael D. Eddy	188/546	30.10
17	4-90.1	Gary B. & Melinda J. Lewis	473/1	47.33
18	4-90	William J. Grasso	284/609	5.01
19	4-90.2	William J. Grasso	284/609	1.00
20	4-96	James D. Buck	404/633	5.03
21	4-91	Donna Kathy Johnston	184/133	54.06
22	8-12	Grayce Louise Buck	144/482	86.89
23	8-13	Donna Kathy Johnston	184/133	50.00
24	8-24	Theresa J. Drain	428/607	48.38
25	8-23	Elden Jackson & Jennifer Lynn Wryosdick	385/343	30.00
26	8-27	Sharon M. & Jeffery Darrin Deaton	349/176	24.65
27	8-22.2	Michael V. Smith	219/609	1.44
28	8-22	David E. & Ila Grace Kyle	270/206	24.63
29	8-21.1	Justin P. & Stephanie M. Richards	411/189	11.24
30	8-21.4	Jodie E. Michael	373/544	1.78
31	8-21.3	Adam Nathaniel Wayne	236/556	0.78
32	8-21.2	Antero Resources Corp	296/494	52.51
33	8-39	Virginia A. Nalley	218/520	70.65
34	8-19	Olive Branch Animal Rescue & Refuge, Inc	333/804	173.48



FILE NO: 161-54-L-23
DRAWING NO: Ocean Unit 2H BHL 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: September 17 20 25
OPERATOR'S WELL NO. Ocean Unit 2H
API WELL NO
47 - 095 - 02950
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: As-Built 1,036' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City
DISTRICT: Lincoln COUNTY: Tyler
SURFACE OWNER: Antero Resources Corp ACREAGE: 52.51 11/21/2025
ROYALTY OWNER: Raymond B. Heintzman & Eva J. Heintzman LEASE NO: ACREAGE: 52.51
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☒ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6,700' TVD
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,700' MD
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

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
W: Raymond B. Heintzman & Eva J. Heintzman Lease			
Raymond B. Heintzman & Eva J. Heintzman	McCombs Conrad & Barrett	1/8	207/136
McCombs Conrad & Barrett	Appalachian Exploration & Development, Inc	Assignment	207/487
Appalachian Exploration & Development, Inc	The Carter-Jones Lumber Company	Assignment	233/563
The Carter-Jones Lumber Company	Applied Mechanics Corporation	Assignment	258/132
Applied Mechanics Corporation	Triad Hunter, LLC	Assignment	385/566
Triad Hunter, LLC	Antero Resources Corporation	Assignment	496/776
X: Bounty Minerals, LLC Lease			
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	301/448
V: Drilling Appalachian Corporation Lease			
Drilling Appalachian Corporation	Antero Resources Corporation	1/8+	296/19
T: Bounty Minerals, LLC Lease			
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	286/571
S: BRC Appalachian Minerals I, LLC Lease			
BRC Appalachian Minerals I, LLC	BRC Working Interest Company LLC	1/8+	369/300
BRC Working Interest Company LLC	Chesapeake Appalachia, LLC	Assignment	369/784
Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc	Assignment	378/764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	470/668
SWN Exchange Titleholder LLC	SWN Production Company LLC	Merger	9/404
SWN Production Company LLC	Antero Exchange Properties	Assignment	544/242
Antero Exchange Properties	Antero Resources Corporation	Merger	525/315
P: Shirley Myers Lease:			
Shirley Myers	Antero Resources Corporation	1/8+	179/121
O: Michael D. Eddy Lease:			
Michael D. Eddy	SEP Appalachia, LLC	1/8+	320/130
SEP Appalachia, LLC	Antero Resources Corporation	Agreement	375/26
L: John Lewis Renner, II Lease			
John Lewis Renner, II	Antero Resources Corporation	1/8+	332/730
K: William J. Patterson, et al Lease			
William J. Patterson, et al	Antero Resources Corporation	1/8+	200/60
F: Greenbrier Royalty Fund II, LLC Lease			
Greenbrier Royalty Fund II, LLC	Antero Resources Corporation	1/8+	296/90
I: Virgil E. Cooper, et al Lease			
Virgil E. Cooper, et al	Antero Resources Corporation	1/8+	205/466
D: John Stanley Starkey Lease			
John Stanley Starkey	Antero Resources Corporation	1/8+	304/32

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Office Of Oil and Gas

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Environmental Protection

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Chapter 22, Article 6A, Section 5(a)(5)
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>C: Michael J. Hough Lease</u> Michael J. Hough	Antero Resources Corporation	1/8+	325/383

*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

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Environmental Protection

11/21/2025

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Chapter 22, Article 6A, Section 5(a)(5)
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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>A: Golden Eagle Resources II, LLC Lease</u>	Golden Eagle Resources II, LLC	Antero Resources Corporation	1/8+	325/383

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Office Of Oil and Gas

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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: Tim Rady

Its: Senior Vice President of Land