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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, August 12, 2024  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for ELEXA UNIT 1H  
47-095-02887-00-00

**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 blue ink, appearing to read "James A. Martin", is written over a white rectangular area.

James A. Martin  
Chief

Operator's Well Number: ELEXA UNIT 1H  
Farm Name: NEIL R STEBBINS  
U.S. WELL NUMBER: 47-095-02887-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 08/12/2024

Promoting a healthy environment.

08/16/2024

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 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Elexa Unit 1H MOD Well Pad Name: Starkey Pad

3) Farm Name/Surface Owner: Neil R. Stebbins Public Road Access: Hamilton Drive

4) Elevation, current ground: 1107' Elevation, proposed post-construction: 1091'

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: 6800' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6800' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20200' MD

11) Proposed Horizontal Leg Length: 12368.9'

12) Approximate Fresh Water Strata Depths: 464'

13) Method to Determine Fresh Water Depths: 47-095-00275

14) Approximate Saltwater Depths: 1522'

15) Approximate Coal Seam Depths: None Identified

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: \_\_\_\_\_

CK #4033943  
\$ 2500<sup>00</sup>

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AUG 7 2024  
WV Department of  
Environmental Protection

WW-6B  
(04/15)

API NO. 47-095 - 02887  
 OPERATOR WELL NO. Elexa Unit 1H MOD  
 Well Pad Name: Starkey Pad

18)

**CASING AND TUBING PROGRAM**

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	H-40	94#	100	100 ✓	CTS, 89 Cu. Ft. ✓
Fresh Water	13-3/8"	New	J-55	54.5#	514	514	CTS, 536 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#	20200	20200	4162 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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			

DM

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

Drill, perforate, fracture a new vertical 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): 35.27 acres

22) Area to be disturbed for well pad only, less access road (acres): 14.87 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.

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Office of Oil and Gas

\*Note: Attach additional sheets as needed.

AUG 7 2024

Page 3 of 3

WV Department of  
Environmental Protection

08/16/2024

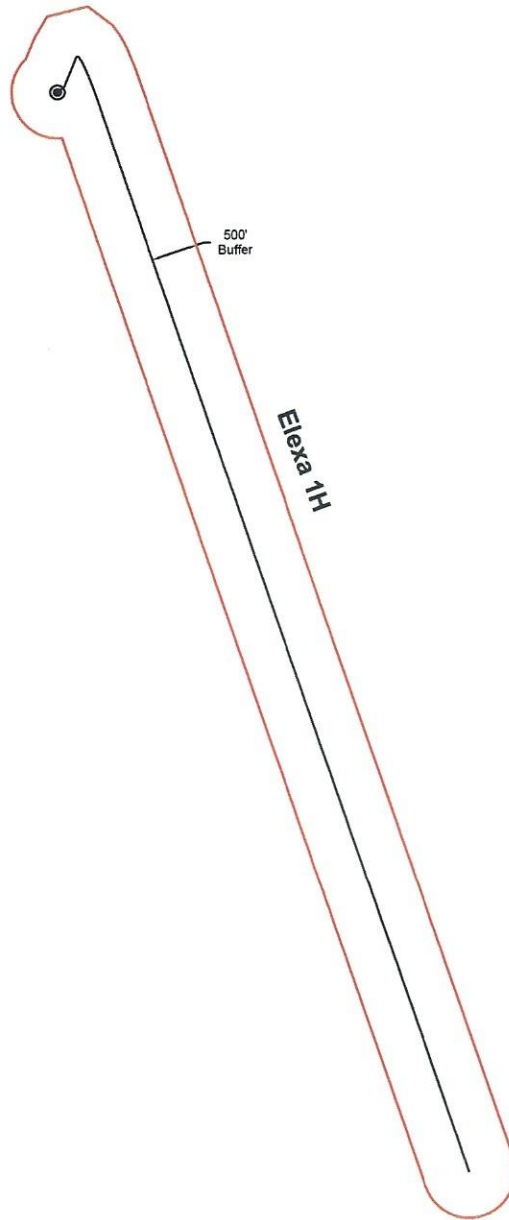
*[Handwritten signature]*  
8-16-24

**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



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Office of Oil and Gas

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WV Department of  
Environmental Protection



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

172 Thompson Drive  
Bridgeport, WV 26330

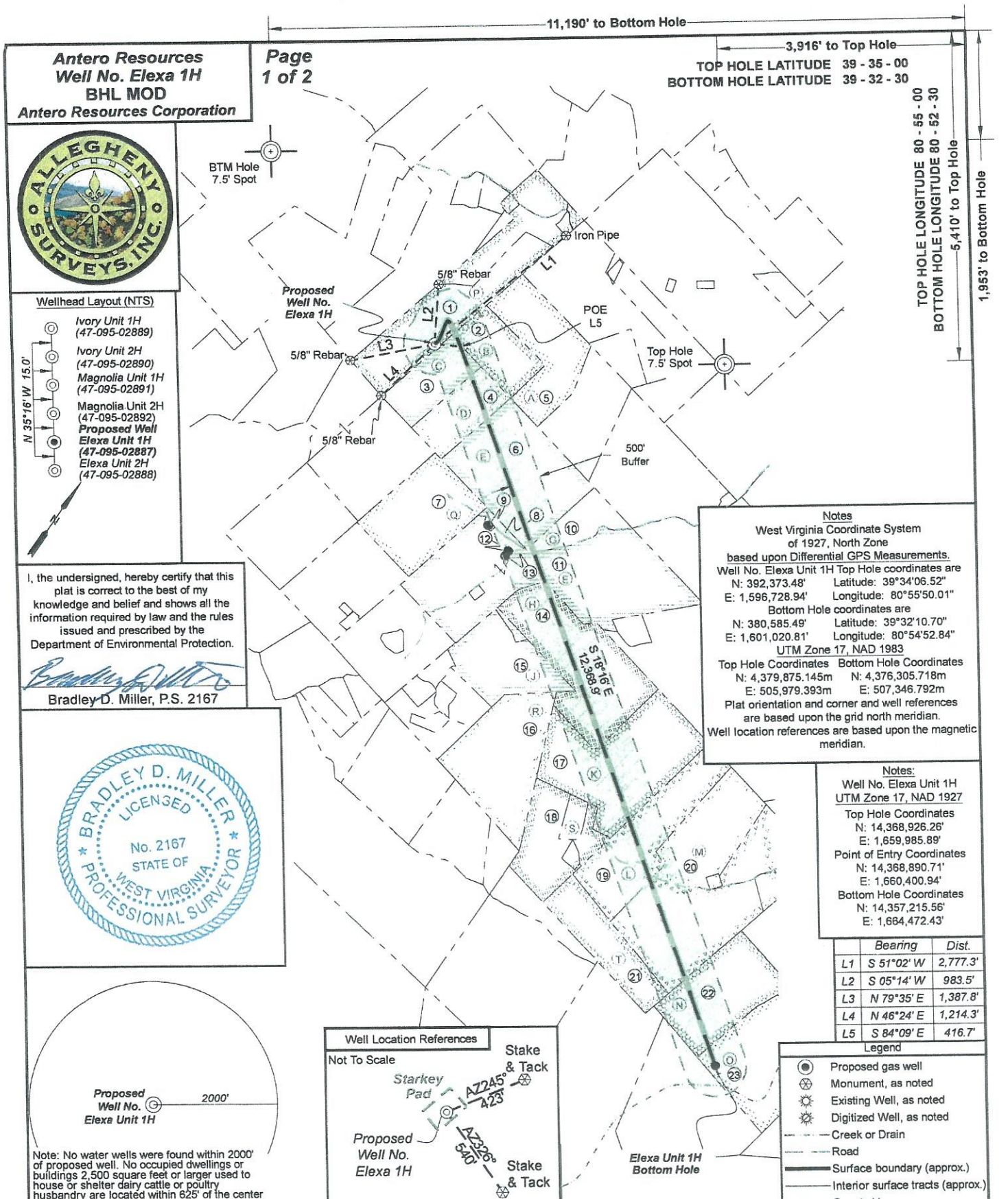
PARTY CHIEF: C. Lynch	DRAWN BY: J. McNemar
RESEARCH: J. Miller	PREPARED: May 29, 2024
SURVEYED: Dec. 2016	PROJECT NO: 160-54-L-23
FIELD CREW: C.L., K.M.	DRAWING NO: Elexa 1H AOR

Sheet 1 of 1



Scale: 1 inch = 2000 feet

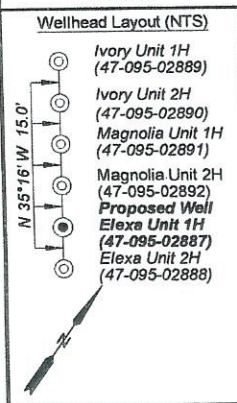
08/16/2024



**Antero Resources**  
**Well No. Elexa 1H**  
**BHL MOD**  
**Antero Resources Corporation**

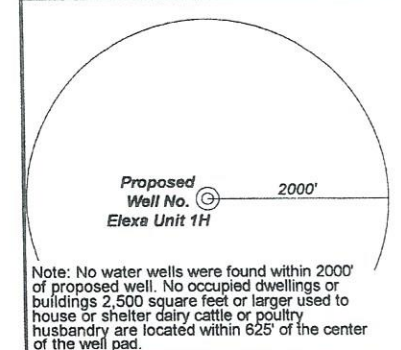
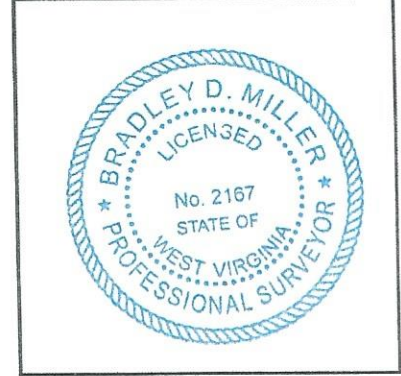
Page  
 1 of 2

11,190' to Bottom Hole  
 3,916' to Top Hole  
 TOP HOLE LATITUDE 39 - 35 - 00  
 BOTTOM HOLE LATITUDE 39 - 32 - 30



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.

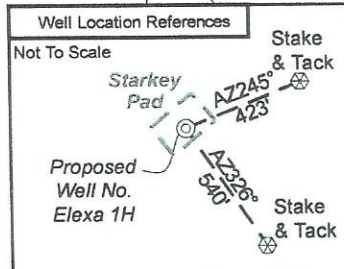
*Bradley D. Miller*  
 Bradley D. Miller, P.S. 2167



**Notes**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Elexa Unit 1H Top Hole coordinates are  
 N: 392,373.48' Latitude: 39°34'06.52"  
 E: 1,596,728.94' Longitude: 80°55'50.01"  
 Bottom Hole coordinates are  
 N: 380,585.49' Latitude: 39°32'10.70"  
 E: 1,601,020.81' Longitude: 80°54'52.84"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,379,875.145m N: 4,376,305.718m  
 E: 505,979.393m E: 507,346.792m  
 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. Elexa Unit 1H UTM Zone 17, NAD 1927  
 Top Hole Coordinates  
 N: 14,368,926.26'  
 E: 1,659,985.89'  
 Point of Entry Coordinates  
 N: 14,368,890.71'  
 E: 1,660,400.94'  
 Bottom Hole Coordinates  
 N: 14,357,215.56'  
 E: 1,664,472.43'

Bearing	Dist.
L1 S 51°02' W	2,777.3'
L2 S 05°14' W	983.5'
L3 N 79°35' E	1,387.8'
L4 N 46°24' E	1,214.3'
L5 S 84°09' E	416.7'



- 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.)
  - County Line

FILE NO: 158-54-L-23  
 DRAWING NO: Elexa 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: August 5 20 24  
 OPERATOR'S WELL NO. Elexa 1H  
 API WELL NO  
 47 - 095 - 02887  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: Proposed Elev: 1,091' Existing Elev: 1,107' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City  
 DISTRICT: Lincoln COUNTY: Tyler  
 SURFACE OWNER: Neil R. Stebbins ACREAGE: 51.48  
 ROYALTY OWNER: AMP IV, LP LEASE NO: \_\_\_\_\_ ACREAGE: 51.48

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD 6,800' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,200' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
 Denver, CO 80202 Bridgeport, WV 26330

08/16/2024

*DM*



Leases	
A	Robert F. & Rita K. Scardina
B	Robert F. & Rita K. Scardina
D	Robert F. & Rita K. Scardina
C	Robert F. & Rita K. Scardina
E	Earl K. Grimes, et ux
G	BRC Appalachian Minerals I, LLC
H	Breck Minerals, LP
J	Bounty Minerals, LLC
K	Ethan A. & Marsh L. Riffle, JTWROS
L	Blanche B. Bailey & Shelby R. Bailey
M	Charles R. Jobs
N	Melodee A. Matheny
O	Heritage Resources-Marcellus, LLC
P	AMP IV, LP
Q	Date Palm Resources, LLC
R	Robert L. Bolner
S	Bounty Minerals, LLC
T	MMA Mineral Group, LLC

ID	TM-Par	Owner	Bk/Pg	Acres
1	5-9.4	Neil R. Stebbins	366/436	51.48
2	5-12	Robert F. & Rita K. Scardina	320/646	25.00
3	5-11	Robert F. & Rita K. Scardina	320/646	25.00
4	5-10	Robert F. & Rita K. Scardina	320/646	25.00
5	5-13	Robert F. & Rita K. Scardina	320/646	46.00
6	9-3	D.E. Grimes & Sons Farm, LLC	209/496	67.00
7	9-1	Dickie L. Morgan	605/478	50.00
8	9-2	D.E. Grimes & Sons Farm, LLC	209/496	1.59
9	9-16.3	Timothy Grimes & Pamela Robinson	OR204/32	0.55
10	9-4	Brandon Scott Grimes	637/841	20.00
11	9-16	D.E. Grimes & Sons Farm, LLC	209/496	118.22
12	9-16.4	Darrell Kurt Grimes & Amy J. Grimes	617/383	0.24
13	9-16.1	Darrell K. & Amy J. Grimes	OR87/558	0.25
14	9-15.1	Larry M. & Betty L. Jochum; Mark Lee Jochum	573/794	75.00
15	9-43	Larry M. & Betty L. Jochum; Mark Lee Jochum	573/794	36.55
16	9-23	Robert L. Bolner	347/235	61.00
17	9-24	Ethan A. & Marsha L. Riffle	299/26	82.00
18	9-25	Vonlie Cooper	289/103	31.48
19	9-27	Robert Livio Bolner	226/593	59.00
20	9-28	Constance Heintzman	WB43/505	104.50
21	13-2	Idona Cooper Estate	109/234	30.00
22	13-3	Mark E. Heintzman	221/635	51.96
23	13-8	D.H. Lancaster, Jr.	351/288	52.84

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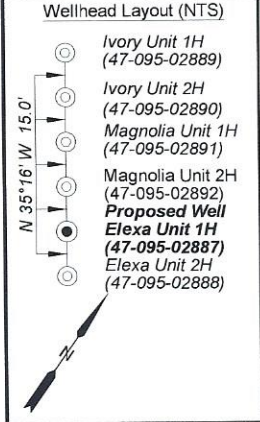
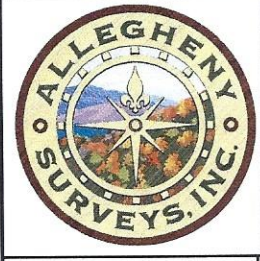
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ROYALTY OWNER: AMP IV, LP LEASE NO: ACREAGE: 80.37  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
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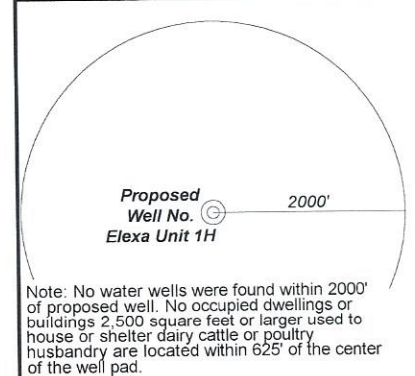
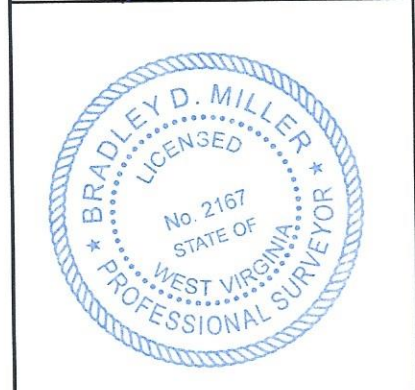
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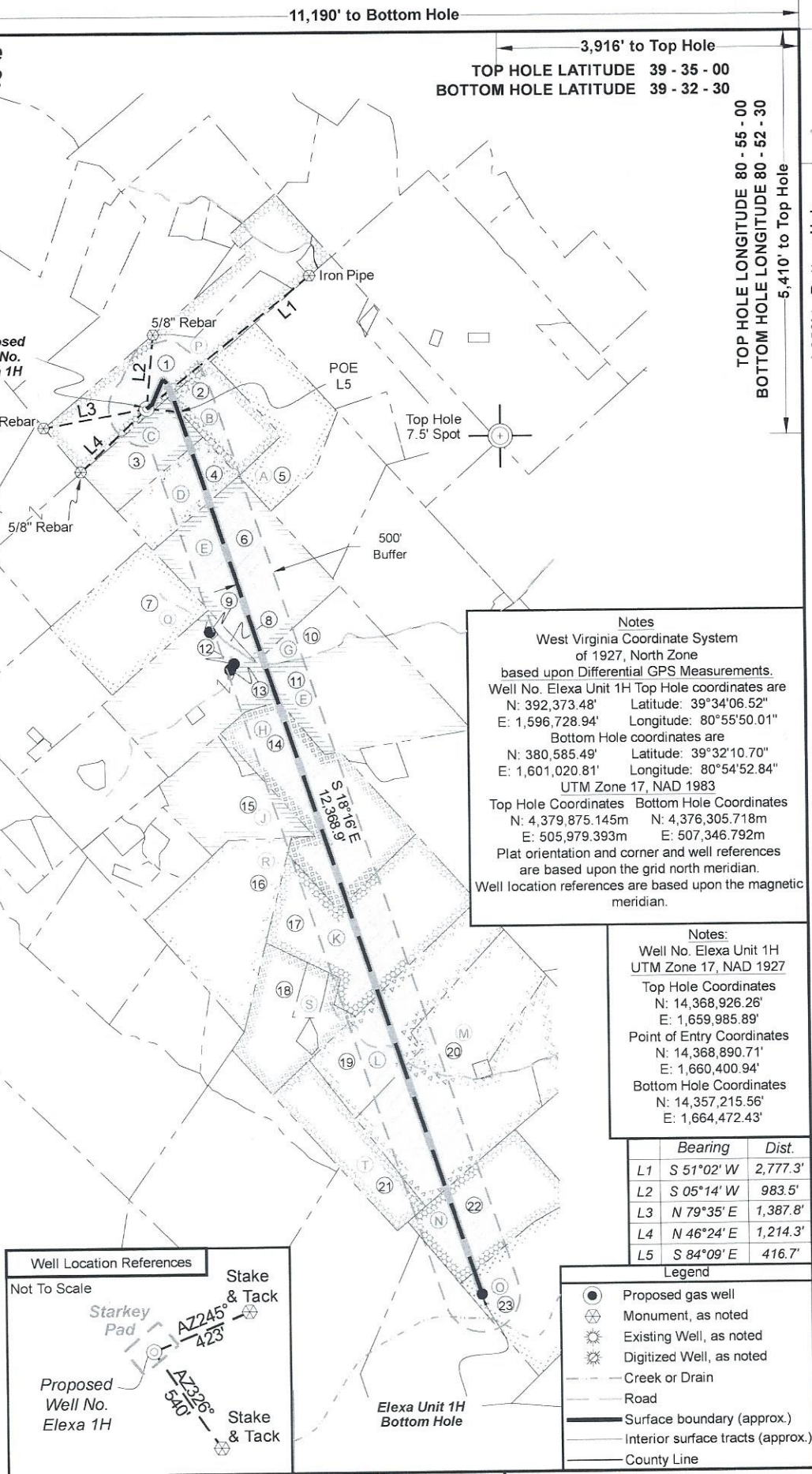


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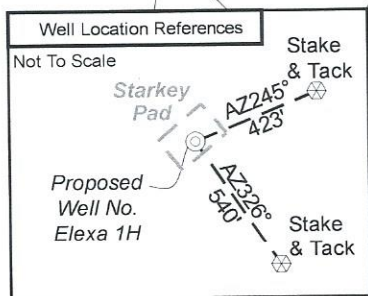


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 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330

**08/16/2024**





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
<u>P: AMP IV, LP Lease</u> AMP IV, LP	Antero Resources Corporation	1/8+	231/747
<u>B: Robert F. &amp; Rita K. Scardina Lease</u> Robert F. & Rita K. Scardina	Antero Resources Corporation	1/8+	235/654
<u>C: Robert F. &amp; Rita K. Scardina Lease</u> Robert F. & Rita K. Scardina	Antero Resources Corporation	1/8+	235/654
<u>D: Robert F. &amp; Rita K. Scardina Lease</u> Robert F. & Rita K. Scardina	Antero Resources Corporation	1/8+	235/654
<u>E: Earl K. Grimes, et ux Lease</u> Earl K. Grimes, et ux John Richmond Gas Corporation of WV John Richmond Jack Holden, Driller-Operator Nancy J. Holden Triad Hunter, LLC	John Richmond Gas Corporation of WV John Richmond Jack Holden, Driller-Operator Nancy J. Holden Triad Hunter, LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Assignment	210/269 211/149 212/270 212/315 390/758 402/569 496/776
<u>G: BRC Appalachian Minerals I, LLC Lease</u> BRC Appalachian Minerals I, LLC BRC Working Interest Company LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC Antero Exchange Properties	BRC Working Interest Company LLC Chesapeake Appalachia, LLC Statoil USA Onshore Properties Inc SWN Exchange Titleholder LLC SWN Production Company LLC Antero Exchange Properties Antero Resources Corporation	1/8 Assignment Assignment Assignment Merger Assignment Merger	369/300 369/784 378/764 470/668 9/404 544/242 525/315
<u>E: Earl K. Grimes, et ux Lease</u> Earl K. Grimes, et ux John Richmond Gas Corporation of WV John Richmond Jack Holden, Driller-Operator Nancy J. Holden Triad Hunter, LLC	John Richmond Gas Corporation of WV John Richmond Jack Holden, Driller-Operator Nancy J. Holden Triad Hunter, LLC Antero Resources Corporation	1/8 Assignment Assignment Assignment Assignment Assignment Assignment	210/269 211/149 212/270 212/315 390/758 402/569 496/776
<u>H: Breck Minerals, LP Lease</u> Breck Minerals, LP	Antero Resources Corporation	1/8+	306/62
<u>K: Ethan A. &amp; Marsh L. Riffle, JTWROS Lease</u> Ethan A. & Marsh L. Riffle, JTWROS	Antero Resources Corporation	1/8+	236/369

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Environmental Protection

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
<b><u>L: Blanche B. Bailey &amp; Shelby R. Bailey Lease</u></b>			
Blanche B. Bailey and Shelby R. Bailey	Triad Hunter, LLC	1/8	380/210
Triad Hunter, LLC	Blue Ridge Mountain Resources, Inc	Assignment	104/354
Blue Ridge Mountain Resources, Inc	Eclipse Resources I, LP	Assignment	104/357
Eclipse Resources I, LP	SWN Production Company	Name Change	WVSOS
SWN Production Company	<b>Antero Resources Corporation</b>	<b>Assignment</b>	<b>235/291</b>
<b><u>N: Melodee A. Matheny Lease</u></b>			
Melodee A. Matheny	Antero Resources Corporation	1/8+	557/713

\*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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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>✓ O: Heritage Resources – Marcellus, LLC Lease</u>				
	Heritage Resources - Marcellus, LLC	Antero Resources Corporation	1/8+	640/592


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**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



July 31<sup>st</sup>, 2024

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Mr. Taylor Brewer  
601 57<sup>th</sup> Street  
Charleston, WV 25304

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

CK# 4033943  
CK \$ 2,500.00

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Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modifications for approved wells on the Starkey Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Alexa Unit 1H, Alexa Unit 2H, Magnolia Unit 1H, & Magnolia Unit 2H wells.

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the revised MD and Production Casing/Cement program
- REVISED Form WW-6A1, which shows the leases we will be drilling into
- REVISED Mylar Plat, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-7373.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Carly Marvel".

Carly Marvel  
Permitting Agent  
Antero Resources Corporation

Enclosures

08/16/2024