



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

Wednesday, December 6, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for LYLE UNIT 1H
47-017-06960-00-00

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.

A handwritten signature in blue ink, appearing to read "James A. Martin", is written over a faint blue circular stamp.

James A. Martin
Chief

Operator's Well Number: LYLE UNIT 1H
Farm Name: ANTERO RESOURCES CORPORATION
U.S. WELL NUMBER: 47-017-06960-00-00
Horizontal 6A New Drill
Date Modification Issued: 12/6/2023

Promoting a healthy environment.

12/08/2023

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

1) Well Operator: Antero Resources Corporat 494507062 017-Doddrid W. Union West Union 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Lyle Unit 1H MOD Well Pad Name: Genevieve Pad

3) Farm Name/Surface Owner: Antero Resources, Corp. Public Road Access: WV Route 18 N

4) Elevation, current ground: 886' Elevation, proposed post-construction: _____

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): NOV 16 2023
Marcellus Shale: 7000' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

CK# 4025-749
CK# 7,500.00
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Environmental Protection

8) Proposed Total Vertical Depth: 7000' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18300' MD

11) Proposed Horizontal Leg Length: 8011.4'

12) Approximate Fresh Water Strata Depths: 414', 501', 516'

13) Method to Determine Fresh Water Depths: 47-017-02319

14) Approximate Saltwater Depths: 1468'

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

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

WW-6B
(04/15)

API NO. 47- 017 - 06980
OPERATOR WELL NO. Lyle Unit 1H MOD
Well Pad Name: Genevieve 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#	566'	566'	CTS, 590 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#	18300'	18300'	CTS, 3684 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

Harriet I Reynolds 11-22-23

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	Class G/H	~1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	Sizes:	Depths Set:	RECEIVED: Office of Oil and Gas NOV 27 2023 WV Department of Environmental Protection
N/A	N/A	N/A	

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.

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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): 24.86 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.69 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.

LEGEND

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

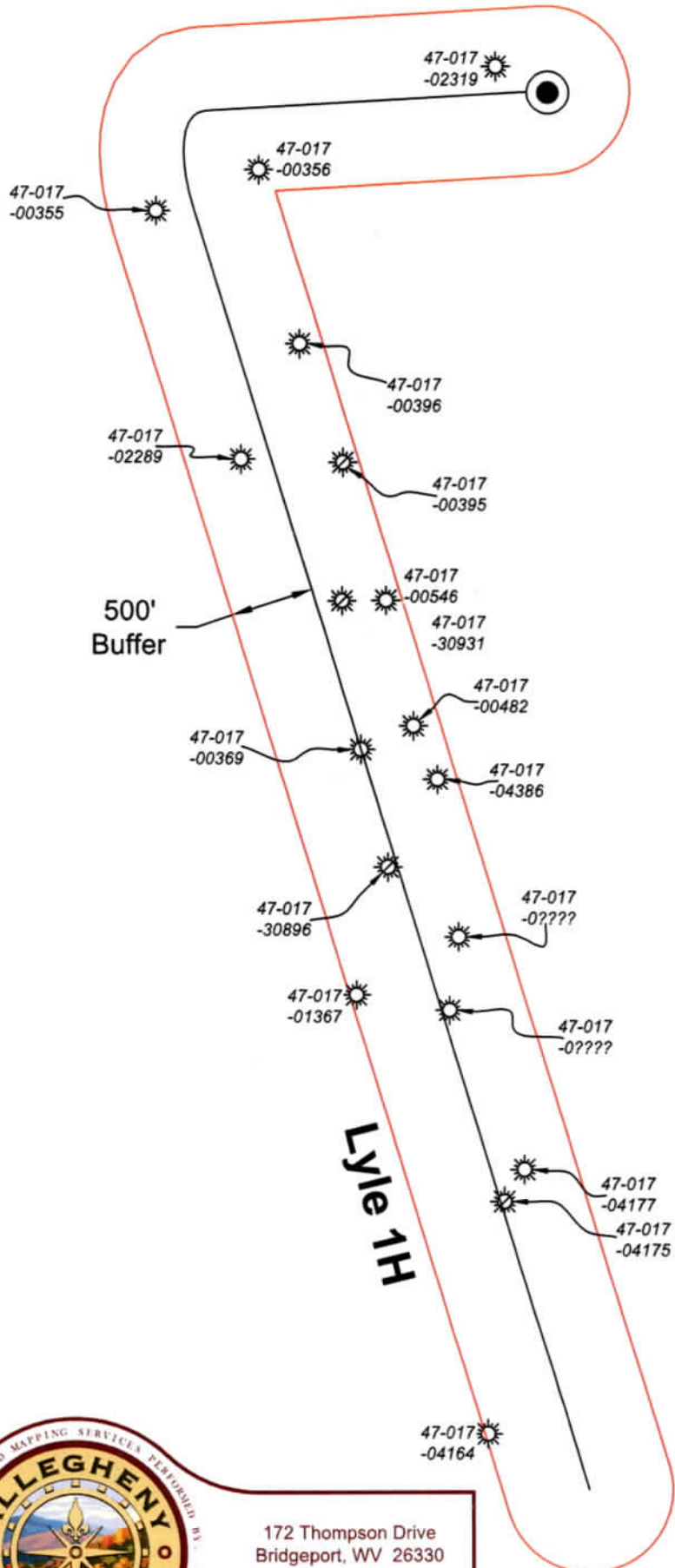


The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone

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NOV 16 2023

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. Smith

RESEARCH: J. Miller

PREPARED: November 14, 2023

SURVEYED: Dec. 2016

PROJECT NO: 59-30-WU-14

FIELD CREW: C.L., K.M.

Sheet 1 of 1

DRAWING NO: Lyle 1H AOR



Scale: 1 inch = 1000 feet

UWI (APNNum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Productive Formation(s) not perf'd
47017021190000	BETTY JANE LANGFITT	1	PILLAR ENERGY LLC	KEY OIL INC	5,243	5080 - 5146	Alexander	Warren, Speechy, Bulltown, Riley, Benson
47017003560000	CLAUDE SMITH ET AL	1	SIBERT & SMITH	SIBERT & SMITH	2,477		Salt Sands, Big Injun, Fifth	Warren, Speechy, Bulltown, Riley, Benson
47017003550000	MAXWELL HEINS	1	FARR ENTERPRISES	MACCUTCHEON & PER	2,159		Warren	Warren, Speechy, Bulltown, Riley, Benson
47017022890000	CLAUDE S SMITH	1	PILLAR ENERGY LLC	KEY OIL INC	5,995		Warren First, Riley, Alexander	Warren, Speechy, Bulltown, Benson
47017008600000	REBECCA JINKINS	1	CLIFF OIL CO	CLIFF OIL CO	1,543		Salt Sands	Warren, Speechy, Bulltown, Riley, Benson
47017008600000	KHIGHT HEINS	1	UNKNOWN	UNKNOWN	2,482		Gordon	Warren, Speechy, Bulltown, Riley, Benson
47017013670000	F.L. LODGE	6210	EOT PRODUCTION CO	EQUIVALE GAS CO	1,998		Big Injun	Warren, Speechy, Bulltown, Riley
47017011640000	CHELVONOT HEINS	1	HABER CROSSBY HOLDINGS LLC	HABER EARTH MINERALS	5,424	3262 - 5200	Bulltown, Benson, Alexander	Warren, Speechy, Bulltown, Riley, Benson
47017003960000	CLAUDE SMITH ETAL 4	10	SIBERT & SMITH	SIBERT & SMITH	2,162		Marston, Big Injun	Warren, Speechy, Bulltown, Riley, Benson
47017003950000	CLAUDE SMITH ET AL	3	SIBERT & SMITH	SIBERT & SMITH	2,250		Big Injun, Gordon	Warren, Speechy, Bulltown, Riley, Benson
47017005460000	J.M. SMITH	1	SOUTHERN TRIANGLE OIL	SOUTHERN TRIANGLE OIL	2,825		Big Injun, Gordon	Warren, Speechy, Bulltown, Riley, Benson
47017001100000	JOSEPH FRIELMAN	5721	HOPE NATURAL GAS	HOPE NATURAL GAS	2,578		Marston, Gordon	Warren, Speechy, Bulltown, Riley, Benson
47017004820000	I.E. WILLIAMSON LOT	1	UNKNOWN	UNKNOWN	1,982		Big Injun	Warren, Speechy, Bulltown, Riley, Benson
47017004860000	CLINE HARRY E & FARR JOHN C	1	KEY OIL CO	KEY OIL CO	5,277	3211 - 5138	Warren, Speechy, Riley, Benson, Alexander	Bulltown
47017								Warren, Speechy, Bulltown, Riley, Benson
47017001170000	CHELVONOT HEINS	3	HABER CROSSBY HOLDINGS LLC	HABER EARTH MINERALS	5,480	5192 - 5202	Alexander	Warren, Speechy, Bulltown, Riley, Benson
47017001150000	CHELVONOT HEINS	3	HABER CROSSBY HOLDINGS LLC	HABER EARTH MINERALS	5,304	4440 - 5174	Benson, Alexander	Warren, Speechy, Bulltown, Riley, Benson

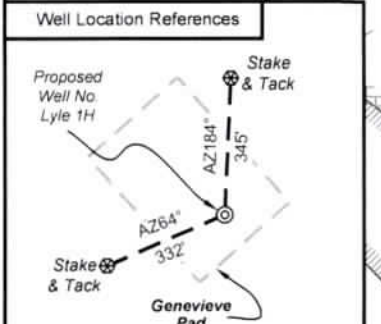
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NOV 16 2023

WV Department of
Environmental Protection

12/08/2023

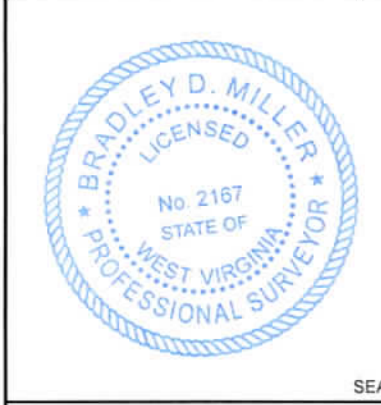
Antero Resources
Well No. Lyle 1H



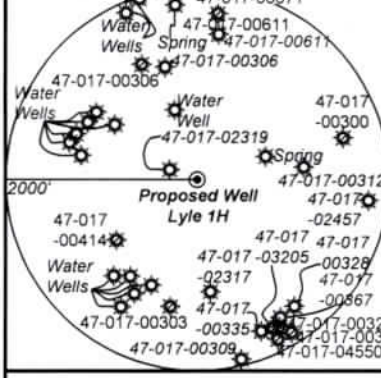
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller

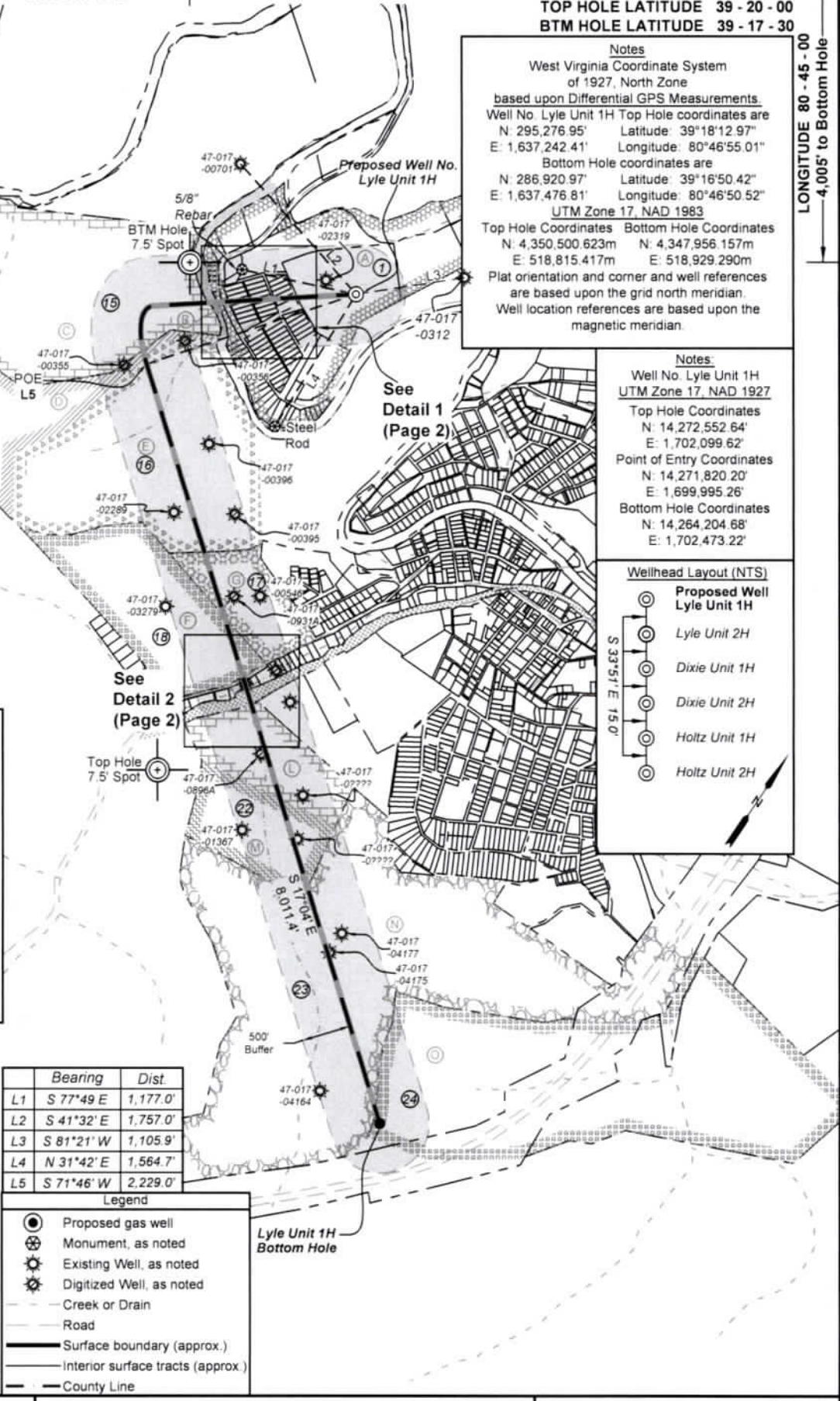
Bradley D. Miller, P.S. 2167



Note: 14 water wells and 2 springs 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.



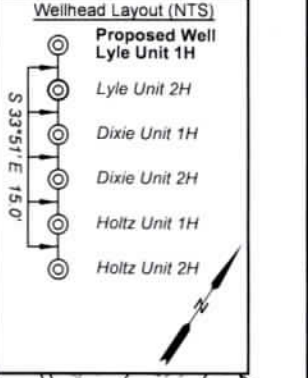
Sheet 1 of 2



TOP HOLE LATITUDE 39 - 20 - 00
BTM HOLE LATITUDE 39 - 17 - 30

Notes
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Lyle Unit 1H Top Hole coordinates are N 295,276.95' Latitude: 39°18'12.97" E: 1,637,242.41' Longitude: 80°46'55.01"
Bottom Hole coordinates are N 286,920.97' Latitude: 39°16'50.42" E: 1,637,476.81' Longitude: 80°46'50.52"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,350,500.623m N: 4,347,956.157m
E: 518,815.417m E: 518,929.290m
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. Lyle Unit 1H UTM Zone 17, NAD 1927
Top Hole Coordinates
N: 14,272,552.64'
E: 1,702,099.62'
Point of Entry Coordinates
N: 14,271,820.20'
E: 1,699,995.26'
Bottom Hole Coordinates
N: 14,264,204.68'
E: 1,702,473.22'



	Bearing	Dist.
L1	S 77°49' E	1,177.0'
L2	S 41°32' E	1,757.0'
L3	S 81°21' W	1,105.9'
L4	N 31°42' E	1,564.7'
L5	S 71°46' W	2,229.0'

- 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: 59-30-WU-14
DRAWING NO: Lyle Unit 1H BHL MOD
SCALE: 1" = 1000'
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: October 27 2023
OPERATOR'S WELL NO. Lyle Unit 1H
API WELL NO
47 - 017 -
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built: 886' WATERSHED: Middle Island Creek QUADRANGLE: West Union
DISTRICT: West Union Antero COUNTY: Doddridge
SURFACE OWNER: Resources, Corp. ACREAGE: 16.5
ROYALTY OWNER: Claude F. Smith, et ux; LEASE NO: ACREAGE: 90;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,300' 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

10,829' to Top Hole

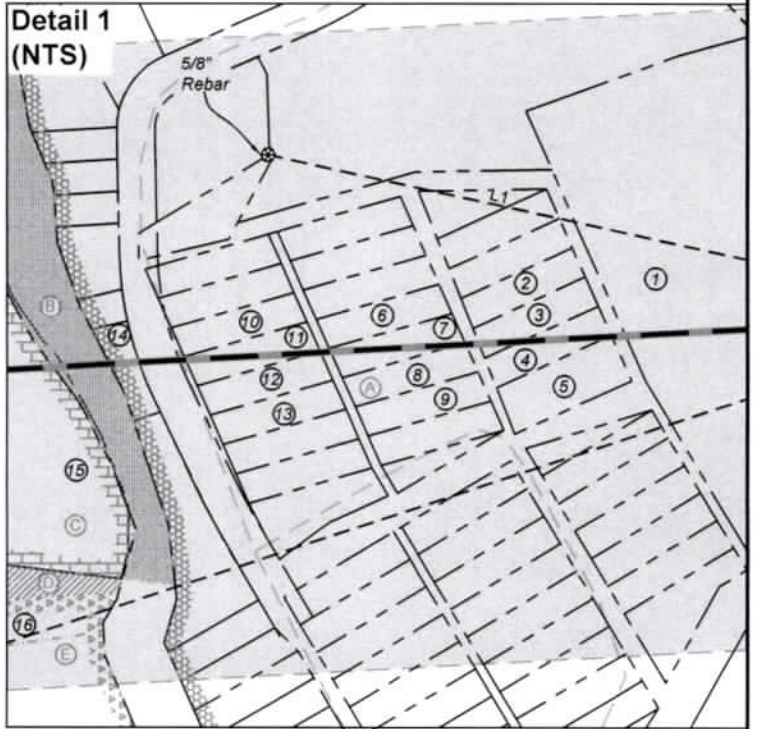
LONGITUDE 80 - 45 - 00
4,005' to Bottom Hole

12/08/2023

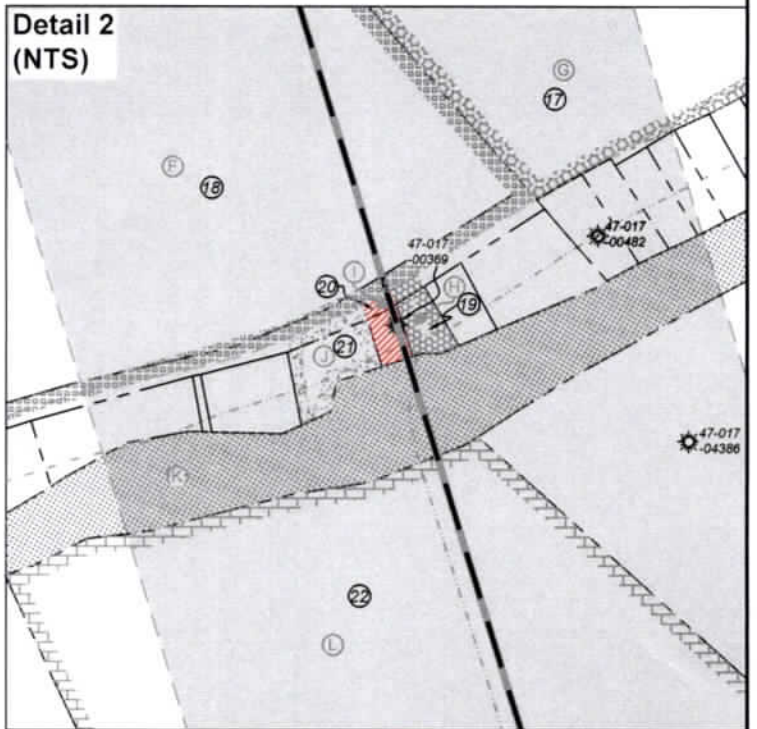
Antero Resources Corporation



Leases	
A	Claude F. Smith, et ux
B	WVDNR
C	Masterson Family Trust
D	Alice H. Maxwell
E	Claude F. Smith, et ux
F	William G. Summers, et al
G	TBB Consulting, LLC
H	Russell D. Leggett, et ux
I	Pooled Tract
J	Christine Van Natter
K	West Virginia State Rail Authority
L	Stuart Family Trust
M	Arnold L. Stuart, et ux
N	Celia Schulte, et al
O	Joseph Cheuvront & W.S. Stuart



ID	TM-Par	Owner	BK/Pg	Acres
1	11-3	Antero Resources Corp.	431/528	16.50
2	35-3	Antero Resources Corp.	430/666	0.23
3	35-93	Antero Resources Corp.	430/666	0.23
4	35-94	Antero Resource Corp.	430/666	0.23
5	35-95	Antero Resource Corp.	430/666	0.36
6	35-75	Larry D. Patterson	240/110	0.23
7	35-7	James I. Williams	170/720	0.23
8	35-76	James I. Williams	170/720	0.23
9	35-77	Antero Resources Corp.	431/526	0.23
10	35-52	Danny G. Rowe	256 / 558	0.23
11	35-53	Antero Resources Corp.	431/240	0.22
12	35-54	Antero Resources Corp.	431/240	0.22
13	35-55	Antero Resources Corp.	431/240	0.22
14	35-38	Michael & Joseph Smith	365/407	—
15	11-1	Coastal Forest Resources Co.	260/135	238.44
16	11-13.2	Frank E. McGill	429/448	199.30
17	11-20	Nora Summers Est.	113/488	18.31
18	11-19.1	U.G. Summers Est.	113/484	49.50
19	33-38	Teddy D. Anderson, Jr.	518/671	0.17
20	33-37	Herold M. & Dottie M. Underwood	392/208	0.16
21	33-36	Herold M. & Dottie M. Underwood	392/208	0.33
22	11-36	James E. Heflin	173/794	49.00
23	15-3	E Properties LTD	201/396	186.86
24	15-4	E Properties LTD	201/396	115.03



FILE NO: 59-30-WU-14
DRAWING NO: Lyle Unit 1H BHL MOD
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
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47 — 017 —
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ROYALTY OWNER: Claude F. Smith, et ux; LEASE NO: ACREAGE: 90.
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,000' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,300' 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

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>A: Claude F. Smith, et ux Lease</u>			
Claude F. Smith	Key Oil Company	1/8	104/704
Key Oil Company	XOIL Drilling Partners LP	Assignment	105/556
XOIL Drilling Partners LP	XPLOR Corporation	Assignment	146/649
XPLOR Corporation	Venus Exploration	Merge	WV SOS
Venus Exploration Inc	Allegheny Interests Inc	Assignment	184/512
Allegheny Interests Inc	Rubin Resources Inc	Assignment	187/685
Rubin Resources Inc	Petro Edge Energy LLC	Assignment	230/666
Petro Edge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	285/71
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	428/356
EQT Production Company	Antero Resources Corporation	Assignment	385/268
<u>B: WVDNR Lease</u>			
WVDNR	Antero Resources Corporation	1/8+	517/553
<u>C: Masterson Family Trust Lease</u>			
Masterson Family Trust	Antero Resources Corporation	1/8+	373/61
<u>D: Alice H. Maxwell Lease</u>			
Alice H. Maxwell	Carl D. Perkins & William Paul McCutchan	1/8	63/111
Carl D. Perkins & William Paul McCutchan	Justin L. Henderson	Assignment	104/689
Justin L. Henderson	P.D. Farr II	Assignment	109/385
P.D. Farr II	Antero Resources Appalachian Corporation	Assignment	271/546
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523
<u>E: Claude F. Smith, et ux Lease</u>			
Claude F. Smith	Key Oil Company	1/8	104/704
Key Oil Company	XOIL Drilling Partners LP	Assignment	105/556
XOIL Drilling Partners LP	XPLOR Corporation	Assignment	146/649
XPLOR Corporation	Venus Exploration	Merge	WV SOS
Venus Exploration Inc	Allegheny Interests Inc	Assignment	184/512
Allegheny Interests Inc	Rubin Resources Inc	Assignment	187/685
Rubin Resources Inc	Petro Edge Energy LLC	Assignment	230/666
Petro Edge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	285/71
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	428/356
EQT Production Company	Antero Resources Corporation	Assignment	385/268
<u>G: TBB Consulting, LLC Lease</u>			
TBB Consulting, LLC	Antero Resources Corporation	1/8+	520/387
<u>F: William G. Summers, et al Lease</u>			
William G. Summers	Clarence W. Mutschelknaus	1/8	130/601
Clarence W. Mutschelknaus	Bluestone Energy Partners	Assignment	245/577
Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corporation	Affidavit Regarding Merger	288/1
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	46/523

I: POOLED TRACT

12/08/2023

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>K: West Virginia State Rail Authority Lease</u> West Virginia State Rail Authority	Antero Resources Corporation	1/8+	253/409
<u>L: Stuart Family Trust Lease</u> Stuart Family Trust	Antero Resources Corporation	1/8+	501/517
<u>M: Arnold L. Stuart, et ux Lease</u> Arnold L. Stuart, et ux Antero Resources Appalachian Corporation	Antero Resources Appalachian Corporation Antero Resources Corporation	1/8+ Name Change	297/697 46/523
<u>N: Celia Schulte, et al Lease</u> Celia Schulte, et al P. Douglas Farr Triangle Oil Company New Triangle Oil Company Professional Oilfield Services, Inc	P. Douglas Farr Triangle Oil Company New Triangle Oil Company Professional Oilfield Services, Inc. Antero Resources Corporation	1/8 Assignment Assignment Agreement Assignment	62/485 69/125 149/174 336/456 336/461

***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

*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)**

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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>O: Joseph Cheuront & W.S. Stuart Lease:</u>				
	Joseph Cheuront & W.S. Stuart	Lewis Maxwell	1/8	19/216
	Lewis Maxwell	Southern Carbon Company	Assignment	24/477
	Southern Carbon Company	Empire Oil Company, John M. Gribble	Assignment	24/277
	Empire Oil Company, John M. Gribble	WD Gribble	Death	3/067
	WD Gribble	Carolyn E. Farr	Death	4/256
	Carolyn E. Farr	Clarence E. Sigley, Trustee, Carolyn E. Farr Trust	Assignment	220/233
	Clarence E. Sigley, Trustee, Carolyn E. Farr Trust	Tri County Oil & Gas Inc	Assignment	198/670
	Tri County Oil & Gas Inc	May Gas Inc	Assignment	204/43
	May Gas Inc	Harper Crosby Holdings LLC	Assignment	309/238
	Harper Crosby Holdings LLC	Piney Holdings Inc	Assignment	309/275
	Piney Holdings Inc	Antero Resources Corporation	Assignment	400/655

**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

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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: Senior Vice President of Land