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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, December 5, 2022  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET  
  
DENVER, CO 80202


Re: Permit Modification Approval for FORSTER UNIT 1H  
47-095-02803-00-00

**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.

  
James A. Martin  
Chief

Operator's Well Number: FORESTER UNIT 1H  
Farm Name: ANTERO MIDSTREAM LLC  
U.S. WELL NUMBER: 47-095-02803-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 12/05/2022

Promoting a healthy environment.

12/09/2022

WW-6B  
(04/15)

CK# 4014925  
11/15/22  
\$5000<sup>ce</sup>

Expedited Mod

API NO. 47-095 - 02803  
OPERATOR WELL NO. Forster Unit 1H MOD  
Well Pad Name: Beech Run Pad

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 Ellsworth Porter Falls 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Forster Unit 1H MOD Well Pad Name: Beech Run Pad

3) Farm Name/Surface Owner: Antero Midstream LLC Public Road Access: Beech Run Rd.

4) Elevation, current ground: 1223' Elevation, proposed post-construction: \_\_\_\_\_

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: 7500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2850#

8) Proposed Total Vertical Depth: 7500' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24600' MD

11) Proposed Horizontal Leg Length: 15551.0'

12) Approximate Fresh Water Strata Depths: 880'

13) Method to Determine Fresh Water Depths: 47095308530000

14) Approximate Saltwater Depths: 2289'

15) Approximate Coal Seam Depths: 431'

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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Environmental Protection

Steve McCoy  
12/09/2022  
11/30/22

WW-6B  
(04/15)

API NO. 47-095 - 02803  
 OPERATOR WELL NO. Forster Unit 1H MOD  
 Well Pad Name: Beech Run 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	X-60	78.67#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J/K-55	54.5#	930	930	CTS, 969 Cu. Ft.
Coal	9-5/8"	New	J/K-55	36#	3000	3000	CTS, 1221 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110CY	23#	24600	24600	5271 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"	0.375"	2250	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	14,360	2500	Class G/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 a new horizontal shallow well into the 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): 24.47 acres

22) Area to be disturbed for well pad only, less access road (acres): 12.89 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

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DEC 05 2022  
WV Department of  
Environmental Protection

25) Proposed borehole conditioning procedures:

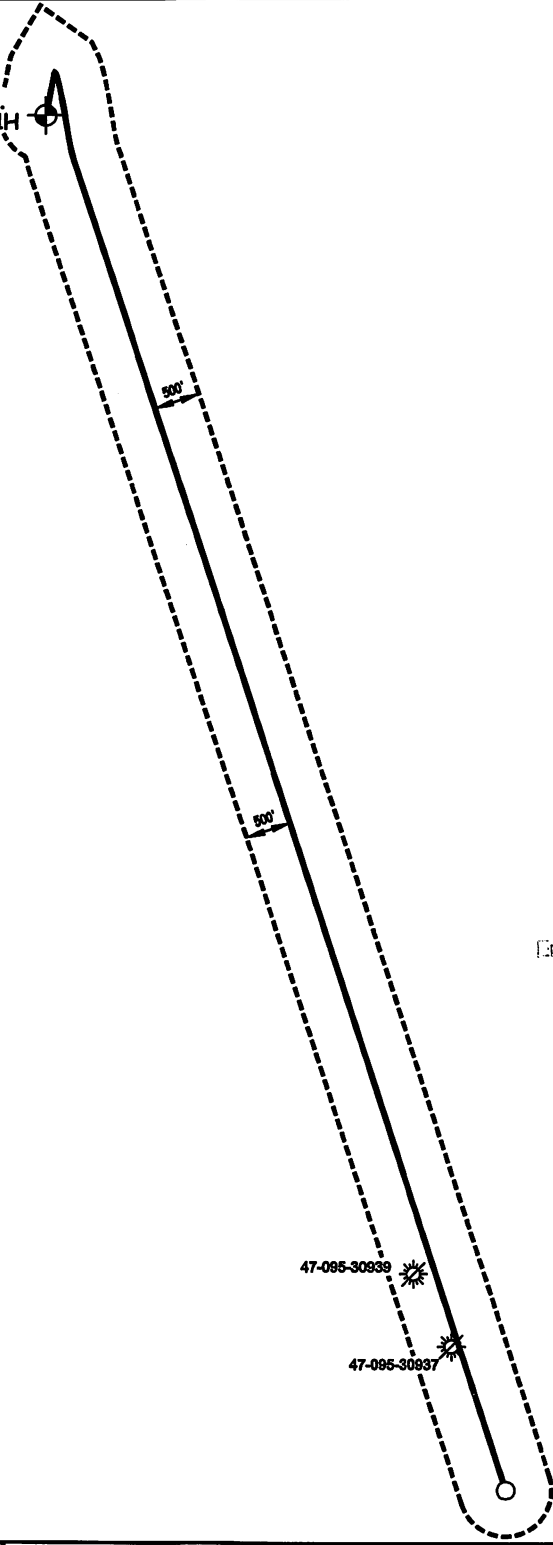
Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.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

SM  
11/30/2022

# BEECH RUN PAD ANTERO RESOURCES CORPORATION

WELL NO.  
FORSTER 1H



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Office of Oil and Gas

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WV Department of  
Environmental Protection

WILLOW LAND SURVEYING, PLLC  
P.O. BOX 17, PENNSBORO, WV 26415  
(304) 659-1717

JOB #: 22-005WA

FILE: FORSTER1HAOR.DWG

SCALE : 1-INCH = 2000-FEET



DATE: 05/26/22

DRAWN BY: D.L.P.

12/09/2022

UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Producible Formation(s) not perf'd
47095309390000	J L D GATEWOOD 1	1322	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT	2,733		Big Injun, Gordon	Berea, Weir, Alexander
47095309370000	ELMER RICHMOND 1	2006	MANUFACT LIGHT & HEAT	MANUFACT LIGHT & HEAT				

MD Department of  
Environmental Protection

NOV 16 2022

CRISTINA  
CROSS

LATITUDE 39°32'30"

9,123'

LATITUDE 39°30'00" 3,936' TO BOTTOM HOLE

4,747'

LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

Antero Resources Corporation Well No. Forster Unit 1H

NOTES:

WELL 1H TOP HOLE INFORMATION: N: 377,231ft E: 1,638,301ft LAT: 39°31'43.08" LON: 80°46'56.44" BOTTOM HOLE INFORMATION: N: 362,377ft E: 1,643,281ft LAT: 39°29'16.98" LON: 80°45'50.21" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 4,375,474m E: 518,721m BOTTOM HOLE INFORMATION: N: 4,370,974m E: 520,314m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,354,485ft E: 1,701,790ft POINT OF ENTRY INFORMATION: N: 14,354,437ft E: 1,702,004ft BOTTOM HOLE INFORMATION: N: 14,339,721ft E: 1,707,016ft

NOTE NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

NOTE 1 WATER WELL WAS LOCATED WITHIN 2000' OF THE CENTER OF PAD

WELL NO. 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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

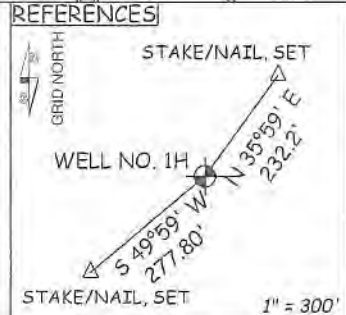
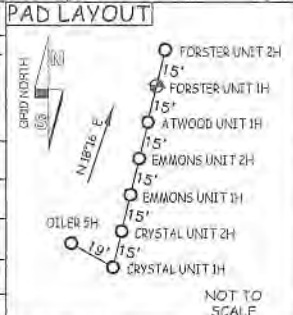


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 20-014WA DRAWING # FORSTER1H SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND - - - Surface Owner Boundary Lines +/- - - - Adjoining Surface Tracts +/- Found monument, as noted



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

DATE 09/19/22 OPERATOR'S WELL # FORSTER UNIT #1H

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ 47 \_\_\_ 095 \_\_\_ 02803 MOD (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X STATE COUNTY PERMIT LOCATION: ELEVATION 1,223' -AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER SURFACE OWNER ANTERO MIDSTREAM LLC ACREAGE 50 ACRES +/-

OIL & GAS ROYALTY OWNER ELAINE L. OILER; ELSIE M. SNIVELY; JON MICHAEL DUMARS ET UX; ROBERT LOUIS BARD; LEASE ACREAGE 50 AC +/- 53.75 AC +/- 47.5 AC +/- 50 AC +/- VICTOR ALLEN CONWAY ET UX; JOYCE WILCOX; ELIZABETH G. MORRISON RICHIE; BRC APPALACHIAN MINERALS I LLC; BILLIE BLOYD; PHILIP 4.19 AC +/- 29.67 AC +/- 54.56 AC +/- 93.25 AC +/- 70 AC +/- RONALD WILCOX; BRC APPALACHIAN MINERALS I LLC; BRC APPALACHIAN MINERALS I LLC; FIRST UNITED METHODIST CHURCH OF HUNTINGTON; 68 AC +/- 13AC +/- 121AC +/- 108.67 AC +/-

MARY JANE LEMASTERS; LOIS GAMBLE; DAVID E. BOWYER; TINA LOUISE ZEDIKER ET AL.; ANDREW HAUGHT ET UX; ANDREW HAUGHT ET UX 50 AC +/- 10 AC +/- 33 AC +/- 35 AC +/- 351.25 AC +/- 104.75 AC +/-

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER X REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,500' TVD 24,600' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD

FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

12/09/2022

COUNTY NAME PERMIT

LATITUDE 39°32'30"

9,123'

LATITUDE 39°30'00" 3,936' TO BOTTOM HOLE

Antero Resources Corporation  
Well No. Forster Unit 1H

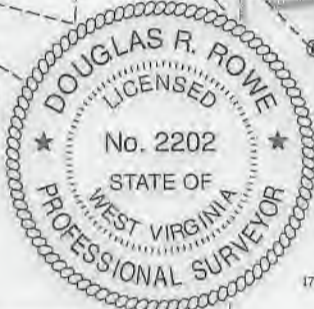
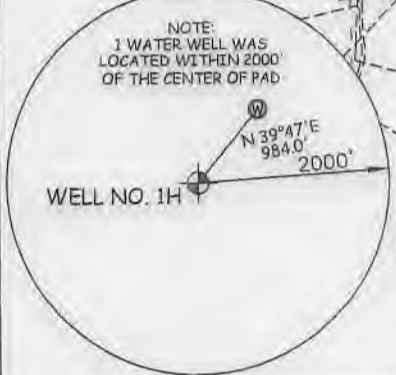
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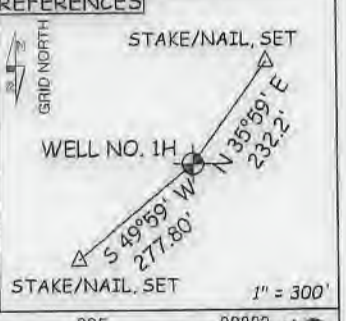
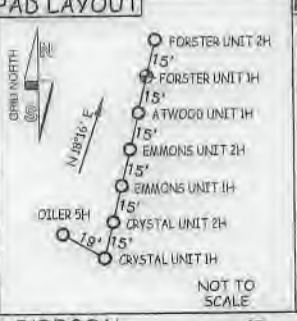
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STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 20-014WA  
DRAWING # FORSTER1H  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND  
--- Surface Owner Boundary Lines +/-  
--- Adjoining Surface Tracts +/-  
⊕ Found monument, as noted  
DOUGLAS R. ROWE P.S. 2202  
DATE 09/19/22  
OPERATOR'S WELL # FORSTER UNIT #1H



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  47 - 095 - 02803 MD  
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  STATE COUNTY PERMIT  
LOCATION: ELEVATION 1,223' -AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK  
QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER  
SURFACE OWNER ANTERO MIDSTREAM LLC ACREAGE 50 ACRES +/-  
OIL & GAS ROYALTY OWNER ELAINE L. OILER; ELSIE M. SNIVELY; JON MICHAEL DUMARS ET UX; ROBERT LOUIS BARD; LEASE ACREAGE 50 AC±; 53.75 AC±; 47.5 AC±; 50 AC±;  
VICTOR ALLEN CONWAY ET UX; JOYCE WILCOX; ELIZABETH G. MORRISON RICHIE; BRC APPALACHIAN MINERALS I LLC; BILLIE BLOYD; PHILLIP 4.18 AC±; 29.67 AC±; 54.55 AC±; 93.25 AC±; 70 AC±;  
RONALD WILCOX; BRC APPALACHIAN MINERALS I LLC; BRC APPALACHIAN MINERALS I LLC; FIRST UNITED METHODIST CHURCH OF HUNTINGTON; 88 AC±; 3AC±; 121AC±; 108.67 AC±;  
MARY JANE LEMASTERS; LOIS GAMBLE; DAVID E. BOWYER; TINA LOUISE ZEDIKER ET AL.; ANDREW HAUGHT ET UX; ANDREW HAUGHT ET UX 50 AC±; 10 AC±; 33 AC±; 35 AC±; 351.25 AC±; 104.75 AC±;  
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(SPECIFY) MOD-BHL PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,500' TVD 24,600' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
ADDRESS 1615 WYNKOP ST. ADDRESS 5400 D BIG TYLER ROAD  
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

MINERAL OWNERSHIP

A ELSIE M. SNIVELY	12-05 ROSALIE HENRY
B BLAINE LOILER	12-06 ANTERO MIDSTREAM LLC
C JON MICHAEL DUMARS ET UX	12-07 COASTAL FOREST RESOURCES CO
D BARBARA ANN MOTT	12-09 COASTAL FOREST RESOURCES CO
E ROBERT LOUIS BARD	12-14 ANTERO MIDSTREAM LLC
F VICTOR ALLEN CONWAY ET UX	12-15 PATRICIA NYE
G JOYCE WILCOX	12-16 PATRICIA NYE
H SUSAN LANCASTER GREEN	12-17 ANTERO MIDSTREAM LLC
I ELIZABETH G. MORRISON RICHIE	12-18 ANTERO MIDSTREAM LLC
J THOMAS P. JONES	12-19 JON DUMARS
K BRC APPALACHIAN MINERALS I LLC	12-20 SHA YOHO
L BILLIE BLOYD	12-201 SHA YOHO
M PHILLIP RONALD WILCOX	12-21 SHA YOHO
N BRC APPALACHIAN MINERALS I LLC	12-22 RALPH THACKER
O BRC APPALACHIAN MINERALS I LLC	12-23 ROBERT BARD
P DANIEL FERRELL	12-24 CHARLES EAASTHAM
Q ISABEL MARIE WINCES	12-25 MARGARET LANCASTER
R FIRST UNITED METHODIST CHURCH OF HUNTINGTON	12-26 MARGARET LANCASTER
S MARY JANE LEMASTERS	12-32 CARL WILCOX
T LOIS GAMBLE	ELLSWORTH DISTRICT - TYLER COUNTY
U ANDREW HAUGHT ET UX	17-04 ERWAIN PECK
V DAVID E. BOWYER	17-07 GILBERT EDDY
W TINA LOUISE ZEDIKER ET AL	17-08 RICHARD NAPIORKOWSKI
X ANDREW HAUGHT ET UX	17-09 ERWAIN PECK
Y ANDREW HAUGHT ET UX	17-10 THOMAS JONES
Z KAREN & ROGER ENTERPRISES I LLC	17-101 CHARLES EASTHAM
AA TINA LOUISE ZEDIKER ET AL	17-102 THOMAS JONES
	17-11 ELIZABETH RICHIE
	17-12 FREDERICK SHATZER
	17-13 CHARLES EASTHAM
	17-14 WILLIAM TITUS
	17-14.1 SAMUEL LEEK
	17-14.2 SANDRA SHREVE
	17-14.3 FRED SHREVE
	17-14.4 FRED SHREVE
	17-14.5 PEGGY LOUB
	17-14.6 RONALD SHAVER
	17-14.7 MICHAEL MARTIN
	17-14.8 SANDRA SHREVE
	17-14.9 FRED SHREVE
	17-14.10 MICHAEL MARTIN
	17-15 TEPOME PLAUGHER
	17-19 CLARENCE CLARK
	17-20 KEITH MALINKY
	17-201 KEITH MALINKY
	17-21 RODNEY ADAMS
	17-22 STEVEN MELOTT
	17-23 MARJORIE STALEY
	17-24 SHAWNNA STALEY
	17-24.1 DAWN HADLEY
	17-25 ELIZABETH MENGES
	17-26 RICHARD NEFF
	17-27 HAMMETT LAND & MINERALS LLC
	17-28 ARTHUR PECK
	17-29 HAMMETT LAND & MINERALS LLC
	17-32 SHALVYN MCGRAW
	17-37 BONNIE HENTHORN
	17-37.1 JOHN COOPER
	17-37.2 PATRICK KELLER
	17-38 PATRICK KELLER
	17-38.1 PATRICK KELLER
	17-39 PATRICK KELLER
	17-39.1 PATRICK KELLER
	17-39.2 PATRICK KELLER
	17-401 RODNEY ADAMS
	17-41 ROBERT BALL
	17-45 EQ7 PRODUCTION CO
	17-46 EQ7 PRODUCTION CO
	17-47 JOHN BASSETT
	17-48 JEREMY JURY
	17-49 MARTHA MENGES
	17-50 MARTHA MENGES
	17-51 JONATHAN COOPER
	17-52 ANTERO RESOURCES CORP
	17-59 MICHAEL BEEGLE
	23-11 JENNIFER WILLIAMS
	23-12 TERRY JOY
	23-13 JOSEPH FERRELL
	23-14 WANDA PARR
	23-15 HARLEY LEMASTERS
	23-16 RICK STALEY
	23-17 RICK STALEY
	23-18 RICK STALEY
	23-28 RICHARD NEFF
	MCELROY DISTRICT - TYLER COUNTY
	2-04 LOYD WEEKLEY
	2-08 RONALD WEEKLEY
	2-9-1 RICHARD BLANKENSHIP
	2-9-2 WILLIAM LACY
	2-9-3 SANDRA JOCHUM
	2-10 WANDA PARR
	2-11 THOMAS FERRELL

4,333' TO BOTTOM HOLE  
LONGITUDE 80°45'00"

COUNTY NAME PERMIT

12/09/2022



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;
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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b>B: Elaine L. Oiler Lease</b>			
Elaine L. Oiler	Petroedge Energy LLC	1/8	0399/0725
Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0406/0147
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<b>A: Elsie M. Snively Lease</b>			
Elsie M. Snively	Statoil USA Onshore Properties Inc	1/8+	0463/0680
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<b>B: Elaine L. Oiler Lease</b>			
Elaine L. Oiler	Petroedge Energy LLC	1/8	0399/0725
Petroedge Energy LLC	Statoil USA Onshore Properties	Assignment	0406/0147
Statoil USA Onshore Properties	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
<b>C: Jon Michael Dumars et ux Lease</b>			
Jon Michael Dumars et ux	Petroedge Energy LLC	1/8+	397/7
Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	406/147
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
<b>E: Robert Louis Bard Lease</b>			
Robert Louis Bard	Petroedge Energy LLC	1/8+	387/248
Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	406/147
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
<b>F: Victor Allen Conway et ux Lease</b>			
Victor Allen Conway et ux	Petroedge Energy LLC	1/8+	400/721
Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	406/147
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
<b>G: Joyce Wilcox Lease</b>			
Joyce Wilcox	Petroedge Energy LLC	1/8+	400/706
Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	406/147
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
<b>I: Elizabeth G. Morrison Richie Lease</b>			
Elizabeth G. Morrison Richie	Statoil USA Onshore Properties Inc	1/8+	438/685
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1

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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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b><u>K: BRC Appalachian Minerals I LLC</u></b>			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	369/300
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	Amend	369/648
BRC Appalachian Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	639/784
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	544/315
<b><u>L: Billie Bloyd Lease</u></b>			
Billie Bloyd	Petroedge Energy LLC	1/8	
Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	384/72
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	406/147
EQT Production Company	Antero Resources Corporation	Assignment	539/239
			663/1
<b><u>M: Phillip Ronald Wilcox Lease</u></b>			
Phillip Ronald Wilcox	Antero Resources Corporation	1/8+	551/667
<b><u>N: BRC Appalachian Minerals I LLC Lease</u></b>			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	369/300
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	Amend	369/648
BRC Appalachian Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	639/784
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	544/315
<b><u>O: BRC Appalachian Minerals I LLC Lease</u></b>			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8+	369/300
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	Amend	369/648
BRC Appalachian Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	639/784
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	544/315
<b><u>R: First United Methodist Church of Huntington Lease</u></b>			
First United Methodist Church of Huntington	Antero Resources Corporation	1/8+	107/191
<b><u>S: Mary Jane Lemasters Lease</u></b>			
Mary Jane Lemasters	Antero Resources Corporation	1/8+	481/717

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
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<b><u>T: Lois Gamble Lease</u></b>			
Lois Gamble	JB Exploration I LLC	1/8+	400/793
JB Exploration I LLC	Statoil USA Onshore Properties Inc	Assignment	469/419
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
<b><u>V: David E. Bowyer Lease</u></b>			
David E. Bowyer	Antero Resources Corporation	1/8+	126/381
<b><u>W: Tina Louise Zediker et al Lease</u></b>			
Tina Louise Zediker et al	Petroedge Energy LLC	1/8+	395/510
Petroedge Energy LLC	Statoil USA Onshore Properties Inc	Assignment	406/147
Statoil USA Onshore Properties Inc	EQT Production Company	Assignment	539/239
EQT Production Company	Antero Resources Corporation	Assignment	663/1
<b><u>X: Andrew Haught et ux Lease</u></b>			
Andrew Haught et ux	E.H Jennings and Bros	1/8	39/292
E.H. Jennings and Bros	Tri-State Gas Company	Assignment	43/110
Tri-State Gas Company	Manufacturer Light and Heat Company	Assignment	80/48
Manufacturer Light and Heat Company	Union Gasoline and Oil Corporation	Assignment	103/313
Union Gasoline and Oil Corporation	AM Snider and Duane M Snider dba Hundred Gas Company	Assignment	167/423
AM Snider and Duane M Snider dba Hundred Gas Company	Carl Perkins	Assignment	201/316
Carl D Perkins	Perkins Oil and Gas Inc	Assignment	225/574
Perkins Oil and Gas Inc	Stone Energy Corporation	Assignment	390/66
Stone Energy Corporation	EQT Production Company	Assignment	556/132
EQT Production Company	Antero Resources Corporation	Assignment	Permission to Permit

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\*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.

12/09/2022

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>Y: Andrew Haught et ux Lease</u>				
	Andrew Haught et ux	E.H Jennings and Bros	1/8+	39/292
	E.H Jennings and Bros	Tri-State Gas Company	Assignment	43/110
	Tri- State Gas Company	Manufacturer Light and Heat Company	Assignment	80/48
	Manufacturer Light and Heat Company	Union Gasoline and Oil Company	Assignment	103/313
	Union Gasoline and Oil Company	AM Sinder and Duane M Snider dba Hundred Gas Company	Assignment	167/423
	AM Snider and Duane M Snider dba Hundred Gas Company	Carl D Perkins	Assignment	201/316
	Carl D Perkins	Perkins Oil and Gas Inc	Assignment	225/574
	Perkins Oil and Gas Inc	Stone Energy Corporation	Assignment	390/66
	Stone Energy Corporation	EQT Production Company	Assignment	556/132
	EQT Production Company	Antero Resources Corporation	Assignment	Permission to Permit

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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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WV Department of 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

November 4, 2022

Jarred Detweiler  
EQT Production Company  
EQT Plaza  
625 Liberty Avenue, Suite 1700  
Pittsburgh, PA 15222

RE: **Permission to Permit and Drill**

Tyler and Wetzel County, West Virginia

Dear Mr. Detweiler,

Antero Resources Corporation ("**Antero**") hereby requests permission from EQT Production Company ("**EQT**") to proceed with Antero's plans to drill one or more horizontal wells in, under, and through certain properties subject to oil and gas interests owned or controlled by EQT located in Tyler and Wetzel County, West Virginia, as more particularly described on Exhibit A to this letter agreement (the "**O&G Interests**"), and insofar and only insofar as to the Marcellus Rights (the "**Properties**"), pursuant to the terms and conditions of this letter agreement. Antero and EQT are currently parties to an Acreage Trade Agreement dated December 17, 2021 (as amended from time to time, the "**Trade Agreement**"), which includes the Properties. Capitalized terms not otherwise defined herein shall have the meanings ascribed to them in the Trade Agreement.

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In order to generate mutual goodwill between EQT and Antero, and for one hundred dollars (\$100.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, subject to the terms and conditions of this letter agreement and the Trade Agreement, EQT hereby grants Antero the right to apply for and obtain all applicable governmental permits for the drilling of one or more wellbore laterals in, under, and through the Properties (collectively, "**Wells**") and to drill, complete and produce such Wells.

Department of Environmental Protection

In the event that Antero and EQT do not consummate the Closing of the Trade Agreement with respect to a Property, then Antero shall have the right to elect to enter into with EQT one (1) or more mutually-agreed joint operating agreements (with each contract area covering a unit) with respect to such Properties, effective as of the date hereof and in each case subject to the terms and conditions of the Trade Agreement.

Antero hereby agrees to release, protect, indemnify, defend and hold harmless EQT from and against any claims, expenses, damages, injuries, claims or obligations or liabilities (including reasonable attorneys' fees) that may be brought by any third party against EQT or its Affiliates to the extent arising out of Antero's drilling or other operations pursuant to this letter agreement and that arise on or after the date of this letter agreement through the Expiration Date (as defined below). This paragraph shall survive (a) the Closing and the assignment or lease, as applicable,

12/09/2022

related to the Properties, (b) the execution of a mutually-agreed joint operating agreement with respect to any Properties, or (c) any termination of all or any part of this letter agreement.

Nothing in this letter agreement will diminish any current or future rights of EQT in the Properties or other properties. This letter agreement and the rights and obligations of EQT and Antero hereunder will terminate (on a Property-by-Property basis) upon the earliest of (I) the execution of a mutually-agreed joint operating agreement with respect to such Property, (II) if and when Antero and EQT consummate the Closing of the Trade Agreement with respect to such Property and (III) the date this letter agreement terminates with respect to such Property as provided in the Trade Agreement. (“*Expiration Date*”).


If the above meets your approval, please execute in the space provided below and return one signed copy to the letterhead address. Should you have any questions, please contact Jared Hurst at (303) 357-6835.

[*Signature Pages Follow.*]

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EPA Department of  
Environmental Protection

Sincerely,




**ANTERO RESOURCES CORPORATION**

By:   
Name: Jared Hurst  
Title: Vice President – Land

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WV Department of  
Environmental Protection

AGREED TO AND ACCEPTED:

**EQT PRODUCTION COMPANY**

By:  \_\_\_\_\_    
Name: Corey C. Peck  
Title: Authorized Agent

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**EXHIBIT A  
PROPERTIES**

[See attached.]

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NY Department of  
Environmental Protection

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**EXHIBIT A**  
**PROPERTIES**

Lessee	Location	Lease Start	Lease Gross	Conveyed	County	District	Block	Range	Conveyed Interest	Relative Interest	Fee	Relief From	Split Term	Split Term
			(\$)	(\$)							(\$)	Improvement		(\$)
Jennifer Meeker, #/6/a Jennifer Evans Meeker, a widow	EQT Production Company	11/26/2018	55.00000	55.00000	Tyler	Ellsworth	632	799	p/o 2-3-28, p/o 2-3-28.1, 2-3-28.2, 2-3-28.5, 2-3-28.6, 2-3-28.7	None	\$			
J. Maurice Carlisle, Jr., a widower	EQT Production Company	8/15/2019	61.95000	61.95000	Tyler	Ellsworth	666	306	p/o 2-3-9 (A)	None	\$			
D. Ralph Thacker, a married man dealing in his sole and separate property	EQT Production Company	8/14/2019	61.95000	61.95000	Tyler	Ellsworth	686	524	p/o 2-3-9 (A)	None	\$			
Penny Bucher, a widow	EQT Production Company	11/21/2018	66.50000	66.50000	Tyler	Ellsworth	630	204	2-3-24	None	\$			
Ronald L. Rogers and Diana D. Rogers, his wife	EQT Production Company	7/31/2018	66.50000	66.50000	Tyler	Ellsworth	620	406	2-3-24	None	\$			
Thomas J. Rogers and Lois J. Rogers, his wife	EQT Production Company	8/6/2018	66.50000	66.50000	Tyler	Ellsworth	622	41	2-3-24	None	\$			
Linda G. Tennis and Keith E. Tennis, her husband	EQT Production Company	9/11/2018	66.50000	66.50000	Tyler	Ellsworth	623	521	2-3-24	None	\$			
Jeffrey C. Moore and Vivian A. Moore, his wife	EQT Production Company	7/31/2018	66.50000	66.50000	Tyler	Ellsworth	620	408	2-3-24	None	\$			
Richard C. Moore, a married man dealing in his sole and separate property	EQT Production Company	7/31/2018	66.50000	66.50000	Tyler	Ellsworth	620	403	2-3-24	None	\$			
Linda Toothman Watkins, a widow	Stone Energy Corporation	2/22/2018	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	214A 620	494 256	p/o 2-1-11, 8-16-64	None	\$			
Trustees of Saint Paul's United Methodist Church, by its Trustee, Sandra Headley	EQT Production Company	1/15/2019	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	222A 220A	711 749	p/o 2-1-11, 8-16-64	None	\$			
Trustees of Saint Paul's United Methodist Church, by its Trustee, Sandra Headley	EQT Production Company	1/15/2019	49.33000	44.00000	Wetzel Tyler	Magnolia Ellsworth	222A 220A	711 749	2-17-13	None	\$			
Jo Ann Whitacre	Stone Energy Corporation	4/19/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	148A 436	704 344	p/o 2-1-11, 8-16-64	None	\$			
Elaine Woods, dealing in her own right	Stone Energy Corporation	12/26/2012	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 426	348 398	p/o 2-1-11, 8-16-64	None	\$			
Clara Jan Hand	Stone Energy Corporation	1/7/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 426	346 392	p/o 2-1-11, 8-16-64	None	\$			
Lisa Samulanc	Stone Energy Corporation	1/7/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	141A 421	720 172	p/o 2-1-11, 8-16-64	None	\$			
Howard Anderson	Stone Energy Corporation	1/30/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	144A 427	309 235	p/o 2-1-11, 8-16-64	None	\$			
Victor Joe Weltz	Stone Energy Corporation	2/6/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 425	90 845	p/o 2-1-11, 8-16-64	None	\$			
Gary L. Anderson	Stone Energy Corporation	1/2/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	141A 421	783 174	p/o 2-1-11, 8-16-64	None	\$			
Sara A. Fitch, dealing in her own right	Stone Energy Corporation	1/6/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	141A 421	692 166	p/o 2-1-11, 8-16-64	None	\$			
Jason Adams, dealing in his own right	Stone Energy Corporation	2/8/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 426	100 13	p/o 2-1-11, 8-16-64	None	\$			
Joy E. Hossman	Stone Energy Corporation	2/27/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 426	344 588	p/o 2-1-11, 8-16-64	None	\$			
Seraldine O'Donnell	Stone Energy Corporation	1/4/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	141A 421	718 170	p/o 2-1-11, 8-16-64	None	\$			

Leasee	Lessee	Effective Date	Lease Gross Value	Unassigned Gross Assets	County	Block	Book	Tract	Unassigned Interest	Retained Interest	Full Coverage of Lease	Multi Tract Instrument	Split Tract	Split Tract Unit
own right	Stone Energy Corporation	12/7/2012	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 426	350 600	p/o 2-1-11, 8-16-64	None	X			
Frederic Russell Killin	Stone Energy Corporation	12/26/2012	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 427	391 335	p/o 2-1-11, 8-16-64	None	X			
Barbara Lesko Mchile, dealing in her own right	Stone Energy Corporation	3/25/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 425	88 757	p/o 2-1-11, 8-16-64	None	X			
Noel W. Anderson, II, dealing in her own right	Stone Energy Corporation	2/25/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	144A 427	301 233	p/o 2-1-11, 8-16-64	None	X			
Cheryl Bruno	Stone Energy Corporation	1/8/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	141A 421	714 164	p/o 2-1-11, 8-16-64	None	X			
Marcy L. Ream	Stone Energy Corporation	1/29/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	141A 421	771 176	p/o 2-1-11, 8-16-64	None	X			
William Forrest Van Camp, dealing in his own right	Stone Energy Corporation	4/15/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	148A 435	451 240	p/o 2-1-11, 8-16-64	None	X			
Cinda Lee Welsh, dealing in her own right	Stone Energy Corporation	2/20/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	144A 427	297 229	p/o 2-1-11, 8-16-64	None	X			
Shaun Adams, dealing in his own right	Stone Energy Corporation	4/23/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	148A 436	698 334	p/o 2-1-11, 8-16-64	None	X			
Diane Lesko Calderone	Stone Energy Corporation	2/15/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	144A 427	335 227	p/o 2-1-11, 8-16-64	None	X			
Gerry Killin	Stone Energy Corporation	12/21/2012	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 427	389 353	p/o 2-1-11, 8-16-64	None	X			
William J. Johnson	Stone Energy Corporation	6/25/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	148A 436	706 306	p/o 2-1-11, 8-16-64	None	X			
Cynthia Weitz Boyson	Stone Energy Corporation	1/30/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 425	92 1	p/o 2-1-11, 8-16-64	None	X			
Ueda Toothman Watkins, a widow	Stone Energy Corporation	2/25/2013	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	214A 427	434 381	p/o 2-1-11, 8-16-64	None	X			
Susanne Stinaker, dealing in her own right	Stone Energy Corporation	12/12/2012	44.00000	44.00000	Wetzel Tyler	Magnolia Ellsworth	145A 427	367 393	p/o 2-1-11, 8-16-64	None	X			
Daniel J. Yoho and Sha M. Yoho, husband and wife	PetroEdge Energy, LLC	10/18/2011	49.33000	49.33000	Tyler	Ellsworth	389	23	2-12-2011	None	X			
Victor A. Conaway and Trudi N. Conaway, husband and wife	PetroEdge Energy, LLC	2/27/2012	52.00000	52.00000	Tyler	Ellsworth	388	515	p/o 2-12-15	None	X			
Carolyn Diane Myers and Randy L. Myers, wife and husband	PetroEdge Energy, LLC	2/27/2012	52.00000	52.00000	Tyler	Ellsworth	394	72	p/o 2-12-15	None	X			
James Sherwood Richmond, a widower	PetroEdge Energy LLC	10/1/2012	49.33000	49.33000	Tyler	Ellsworth	404	436	2-17-13	None	X			
Beverly Brooks, a single woman	PetroEdge Energy LLC	10/1/2012	49.33000	49.33000	Tyler	Ellsworth	404	432	2-17-13	None	X			
Karon Sue Heflin, a widow	PetroEdge Energy LLC	10/1/2012	49.33000	49.33000	Tyler	Ellsworth	404	434	2-17-13	None	X			
Louise Fay Holden, a married woman dealing in her sole and separate property	PetroEdge Energy LLC	10/1/2012	49.33000	49.33000	Tyler	Ellsworth	404	440	2-17-13	None	X			
Norma Lee Piers, a married woman dealing in her sole and separate property	PetroEdge Energy LLC	10/1/2012	49.33000	49.33000	Tyler	Ellsworth	404	438	2-17-13	None	X			
Janie Lou Harris, a single woman	PetroEdge Energy LLC	11/15/2012	49.33000	49.33000	Tyler	Ellsworth	404	812	2-17-13	None	X			
Uinda L. Smith, a married woman dealing in her sole and separate property	PetroEdge Energy LLC	10/27/2012	49.33000	49.33000	Tyler	Ellsworth	405	723	2-17-13	None	X			

Person	Lessee	Lease Date	Lease Gross Acres	Conveyed Gross Acres	County	District	Block	Tract	Conveyed Interest	Retained Interest	Full Conveyance Lease	Multi Tract Instrument	SPW Tract	Other Tract(s)
Ruby Joann Flowers, a single woman	PetroEdge Energy LLC	11/26/2012	49.33000	49.33000	Tyler	Ellsworth	405	728	2-17-13	None	X			
Jenny Lee Reedy, a single woman	PetroEdge Energy, LLC	11/15/2012	49.33000	49.33000	Tyler	Ellsworth	405	785	2-17-13	None	X			
Robert Flowers, a married man dealing in his sole and separate property	PetroEdge Energy LLC	11/26/2012	49.33000	49.33000	Tyler	Ellsworth	405	730	2-17-13	None	X			
Shirley Ann Drake, a widow	PetroEdge Energy LLC	10/1/2012	49.33000	49.33000	Tyler	Ellsworth	406	1	2-17-13	None	X			
Bonnie J. Steley, a widow	PetroEdge Energy, LLC	1/10/2013	49.33000	49.33000	Tyler	Ellsworth	407	378	2-17-13	None	X			
Sandra Lattimer, aka Sandra Buck Lattimer, a single woman	PetroEdge Energy, LLC	1/10/2013	49.33000	49.33000	Tyler	Ellsworth	407	376	2-17-13	None	X			
Victoria Crampton, a married woman dealing in her sole and separate property	PetroEdge Energy LLC	12/10/2012	49.33000	49.33000	Tyler	Ellsworth	407	173	2-17-13	None	X			
Earl Harris, a married man dealing in his sole and separate property	PetroEdge, LLC	12/10/2012	49.33000	49.33000	Tyler	Ellsworth	407	140	2-17-13	None	X			
Shirley Homer, a/w Shirley Buck Homer, a married woman dealing in her sole and separate property	PetroEdge Energy, LLC	1/10/2013	49.33000	49.33000	Tyler	Ellsworth	407	374	2-17-13	None	X			
Ruth Ann Daugherty, a married woman dealing in her sole and separate property	PetroEdge Energy, LLC	1/21/2013	49.33000	49.33000	Tyler	Ellsworth	407	681	2-17-13	None	X			
Ronald A. Stollar, a married man dealing in his sole and separate property	StatOil USA Onshore Properties, Inc.	1/9/2014	49.33125	49.33125	Tyler	Ellsworth	438	682	2-17-13	None	X			
Melanie Lynn Edgar, a widow	StatOil USA Onshore Properties, Inc.	1/28/2014	49.33125	49.33125	Tyler	Ellsworth	446	832	2-17-13	None	X			
Tammy Dehlt, a married woman dealing in her sole and separate property	StatOil USA Onshore Properties, Inc.	3/21/2014	49.33125	49.33125	Tyler	Ellsworth	447	423	2-17-13	None	X			
Misty Dolin, a single woman	StatOil USA Onshore Properties, Inc.	3/21/2014	49.33125	49.33125	Tyler	Ellsworth	447	426	2-17-13	None	X			
James Dolin, a single man	StatOil USA Onshore Properties, Inc.	3/21/2014	49.33125	49.33125	Tyler	Ellsworth	447	420	2-17-13	None	X			
Estella Goodfellow, a married woman dealing in her sole and separate property	StatOil USA Onshore Properties Inc.	1/16/2015	71.75000	71.75000	Tyler	Ellsworth	472	355	p/a 2-17-14.9, p/a 2-17-12	None	X			
David Mark Wilcox	Spartan Exploration Co.	4/4/2007	254.37000	29.66875	Tyler	Ellsworth	357	37	2-12-32, 2-17-23, 2-17-24, 2-17-24.1	All tracts not listed in the "Conveyed Interest" Column are retained.		X		
David Mark Wilcox	Spartan Exploration Co.	4/4/2007	254.37000	80.70000	Tyler	Ellsworth	357	37	p/a 2-12-15, 2-17-5, 2-17-9	All tracts not listed in the "Conveyed Interest" Column are retained.		X		
Philip Ronald Wilcox	Spartan Exploration Co.	4/4/2007	254.37000	29.66875	Tyler	Ellsworth	357	41	2-12-32, 2-17-23, 2-17-24, 2-17-24.1	All tracts not listed in the "Conveyed Interest" Column are retained.		X		

Lessor	Lessee	Lease Date	Lease Gross Acres	Conveyed Gross Acres	County	District	Book	Page	Conveyed Interest	Retained Interest	Full Conveyance Lease	Multi Tract Instrument	Split Tract	Split Tract Plat
Andrew Haight & Pleafy Haight, his wife	E H Jennings and Bros.	8/13/1898	469.00000	125.24000	Tyler	Ellsworth	39	292	2-17-45, 2-17-46, 2-23-14, 2-23-25 & p/o 2-23-28	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-43		x	x	Exhibit A-1-Part 2-43
Eva Ruth Lawlis, a widow	Petroedge Energy, LLC	7/16/2013	13.00000	12.34000	Tyler	Ellsworth	423	489	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Bernadine Broadwater Molnar, a widow	Statoil USA Onshore Properties Inc.	7/24/2013	13.00000	12.34000	Tyler	Ellsworth	424	113	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Douglas Underwood, a married man dealing in his sole and separate property	Statoil USA Onshore Properties Inc.	8/29/2013	13.00000	12.34000	Tyler	Ellsworth	428	145	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Toni G. Limbers, f/k/a Toni Underwood, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	8/16/2013	13.00000	12.34000	Tyler	Ellsworth	428	584	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Ethel Virginia Underwood, a widow, by her Attorney-in-Fact, Ralph John Underwood, Jr.	Statoil USA Onshore Properties Inc.	8/30/2013	13.00000	12.34000	Tyler	Ellsworth	428	312	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Ralph John Underwood, Jr., a married man dealing in his sole and separate property	Statoil USA Onshore Properties Inc.	8/29/2013	13.00000	12.34000	Tyler	Ellsworth	428	304	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Edward Earl Underwood, a single man	Statoil USA Onshore Properties Inc.	9/4/2013	13.00000	12.34000	Tyler	Ellsworth	428	200	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46

STATE OF TEXAS  
 COUNTY OF TYLER  
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 CLERK OF COUNTY CLERK

Lessor	Lessee	Lease Date	Lease Gross Acres	Conveyed Gross Acres	County	District	Book	Page	Conveyed Interest	Retained Interest	Full Conveyance Lease	Multi Tract Instrument	Split Tract	Split Tract Plan
Donald Lee Underwood, a married man dealing in his sole and separate property	Statoil USA Onshore Properties Inc.	8/31/2013	13.00000	12.34000	Tyler	Ellsworth	428	228	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Fred Uisle, a widow	Statoil USA Onshore Properties Inc.	8/20/2013	13.00000	12.34000	Tyler	Ellsworth	428	370	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Beverly Rudberg, a single woman	Statoil USA Onshore Properties Inc.	8/29/2013	13.00000	12.34000	Tyler	Ellsworth	428	168	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Opal Mae Kunz, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/4/2013	13.00000	12.34000	Tyler	Ellsworth	428	202	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Ralph F. Wilson, a widower	Statoil USA Onshore Properties Inc.	9/12/2013	13.00000	12.34000	Tyler	Ellsworth	431	272	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Wick Underwood, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	8/29/2013	13.00000	12.34000	Tyler	Ellsworth	431	229	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Mary A. Bassaro, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/11/2013	13.00000	12.34000	tyler	Ellsworth	431	254	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Jennifer L. Parfitt, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/10/2013	13.00000	12.34000	Tyler	Ellsworth	431	256	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46

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 DIVISION OF REVENUE  
 OCT 16 2022  
 STATE OF TEXAS

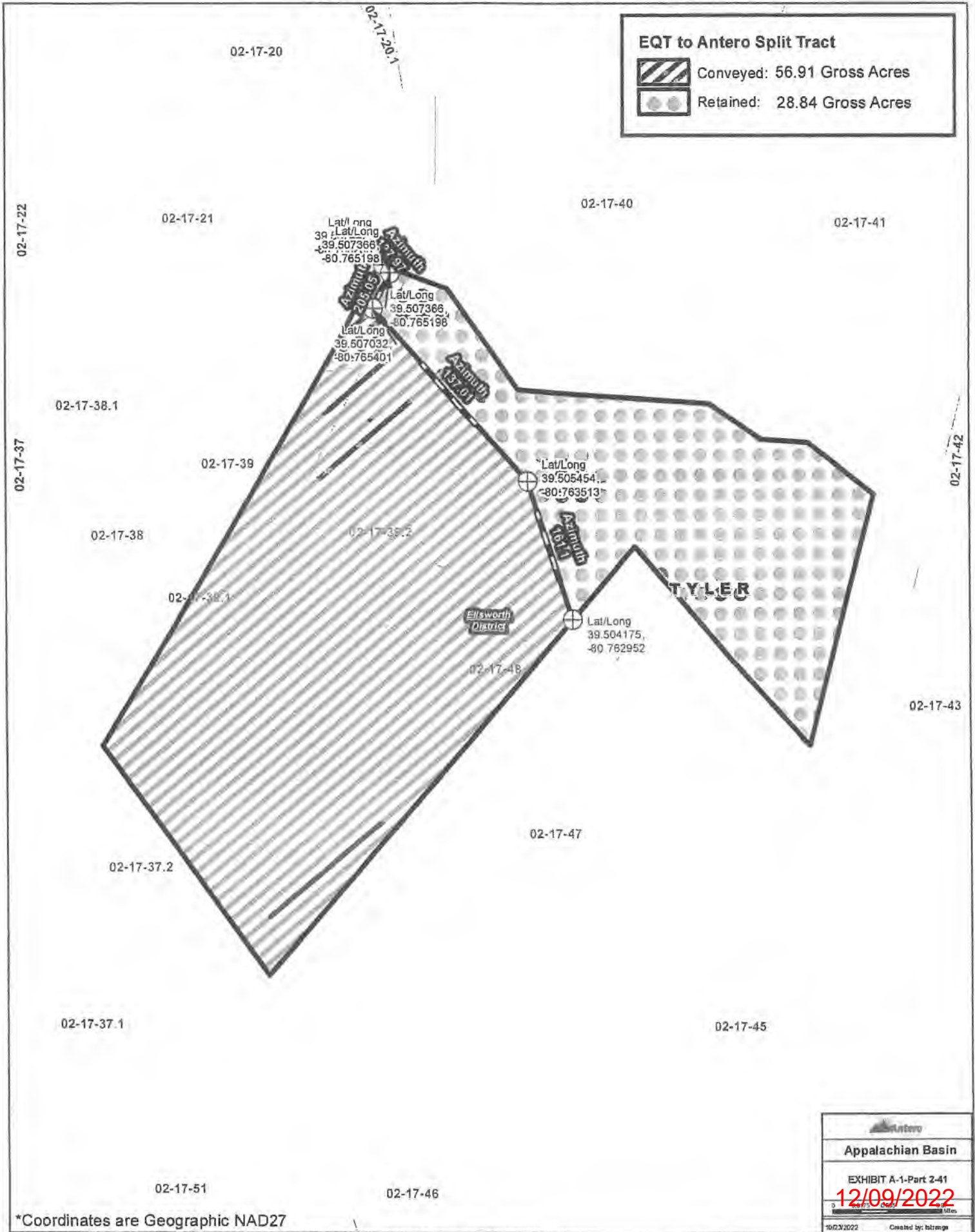
Leasee	Lessor	Lease Date	Lease Gross Acres	Conveyed Gross Acres	County	District	Block	Page	Conveyed Interest	Retained Interest	Full Conveyance Lease	Melt Tract Instrument	Split Tract	Split Tract Plat
Joyce Ann Wilson, a widow	Statoil USA Onshore Properties Inc.	9/12/2013	13.00000	12.34000	Tyler	Ellsworth	431	270	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			X	Exhibit A-1-Part 2-46
Rosemarie Whitney, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/12/2013	13.00000	12.34000	Tyler	Ellsworth	431	266	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			X	Exhibit A-1-Part 2-46
Mary Kay Campbell, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/12/2013	13.00000	12.34000	Tyler	Ellsworth	431	268	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			X	Exhibit A-1-Part 2-46
Kathryn J. Phillips, f/k/a Kathryn Jean (Kitt) Wilson, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/12/2013	13.00000	12.34000	Tyler	Ellsworth	431	264	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			X	Exhibit A-1-Part 2-46
Cynthia L. Goodyear, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/10/2013	13.00000	12.34000	Tyler	Ellsworth	431	258	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			X	Exhibit A-1-Part 2-46
Mary A. Bassard, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/11/2013	15.50000	4.41000	Tyler	Ellsworth	432	553	p/o 2-23-17	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-47			X	Exhibit A-1-Part 2-47
Jet Carney Gill, a married man dealing in his sole and separate property	Statoil USA Onshore Properties Inc.	10/19/2013	104.00000	56.91000	Tyler	Ellsworth	435	202	2-17-39, 2, 2-17-47, 2-17-48	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-41 and Exhibit A-1-Part 2-42			X	Exhibit A-1-Part 2-41 and Exhibit A-1-Part 2-42
Ronald Underwood, a married man dealing in his sole and separate property	Statoil USA Onshore Properties Inc.	8/29/2013	13.00000	12.34000	Tyler	Ellsworth	435	1	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			X	Exhibit A-1-Part 2-46

Lessee	Lessee	Lease Date	Lease Gross Acres	Conveyed Gross Acres	County	District	Book	Page	Conveyed Interest	Retained Interest	Full Conveyance Lease	Multi Tract Instrument	Split Tract	Split Tract Plat
Katie Underwood, a single woman	Statoil USA Onshore Properties Inc.	9/20/2013	13.00000	12.34000	Tyler	Ellsworth	435	11	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Margaret Jeanne Wells, f/k/a Margaret Jeanne Gill, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	10/18/2013	104.00000	56.91000	Tyler	Ellsworth	436	162	2-17-39.2, 2-17-47, 2-17-48	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-41 and Exhibit A-1-Part 2-42			x	Exhibit A-1-Part 2-41 and Exhibit A-1-Part 2-42
Ivey Castleberry, a married woman dealing in her sole and separate property	Statoil USA Onshore Properties Inc.	9/19/2013	13.00000	12.34000	Tyler	Ellsworth	437	163	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Johanna Tustin, a widow	Statoil USA Onshore Properties Inc.	12/5/2013	104.00000	56.91000	Tyler	Ellsworth	438	796	2-17-39.2, 2-17-48	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-41			x	Exhibit A-1-Part 2-41
Mary A. Bassaro, a married woman dealing in her sole and separate property	EQT Production Company	11/7/2018	13.00000	12.34000	Tyler	Ellsworth	628	69	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46
Bernadine Broadwater Molnar, a widow	EQT Production Company	12/20/2018	13.00000	12.34000	Tyler	Ellsworth	631	712	p/o 2-23-16	Any tracts not listed in the "Conveyed Interest" Column or any portion of a tract depicted as "Retained" on the attached Exhibit A-1-Part 2-46			x	Exhibit A-1-Part 2-46

END OF EXHIBIT A



# EXHIBIT A-1-Part 2-41





\*Coordinates are Geographic NAD27

<b>Appalachian Basin</b>
EXHIBIT A-1-Part 2-41
<b>12/09/2022</b>
0 1000 Feet
10/23/2022 Created by: htrange

# EXHIBIT A-1-Part 2-42

## EQT to Antero Split Tract

-  Conveyed: 18.1 Gross Acres
-  Retained: 5.4 Gross Acres

02-17-39

02-17-39.2

02-17-39.1

02-17-46

Elsworth  
District

TYLER

02-17-47

Lat/Long  
39.504175,  
-80.762952

Azimuth  
161.1

Lat/Long  
39.502675,  
-80.762295

02-17-45


02-17-37.2

02-17-37.1

02-17-51

02-17-46

\*Coordinates are Geographic NAD27


<b>Appalachian Basin</b>
EXHIBIT A-1-Part 2-42
12/09/2022
10/23/2022 Created by: tstrange

# EXHIBIT A-1-Part 2-43



\*Coordinates are Geographic NAD27

**Appalachian Basin**



EXHIBIT A-1-Part 2-43

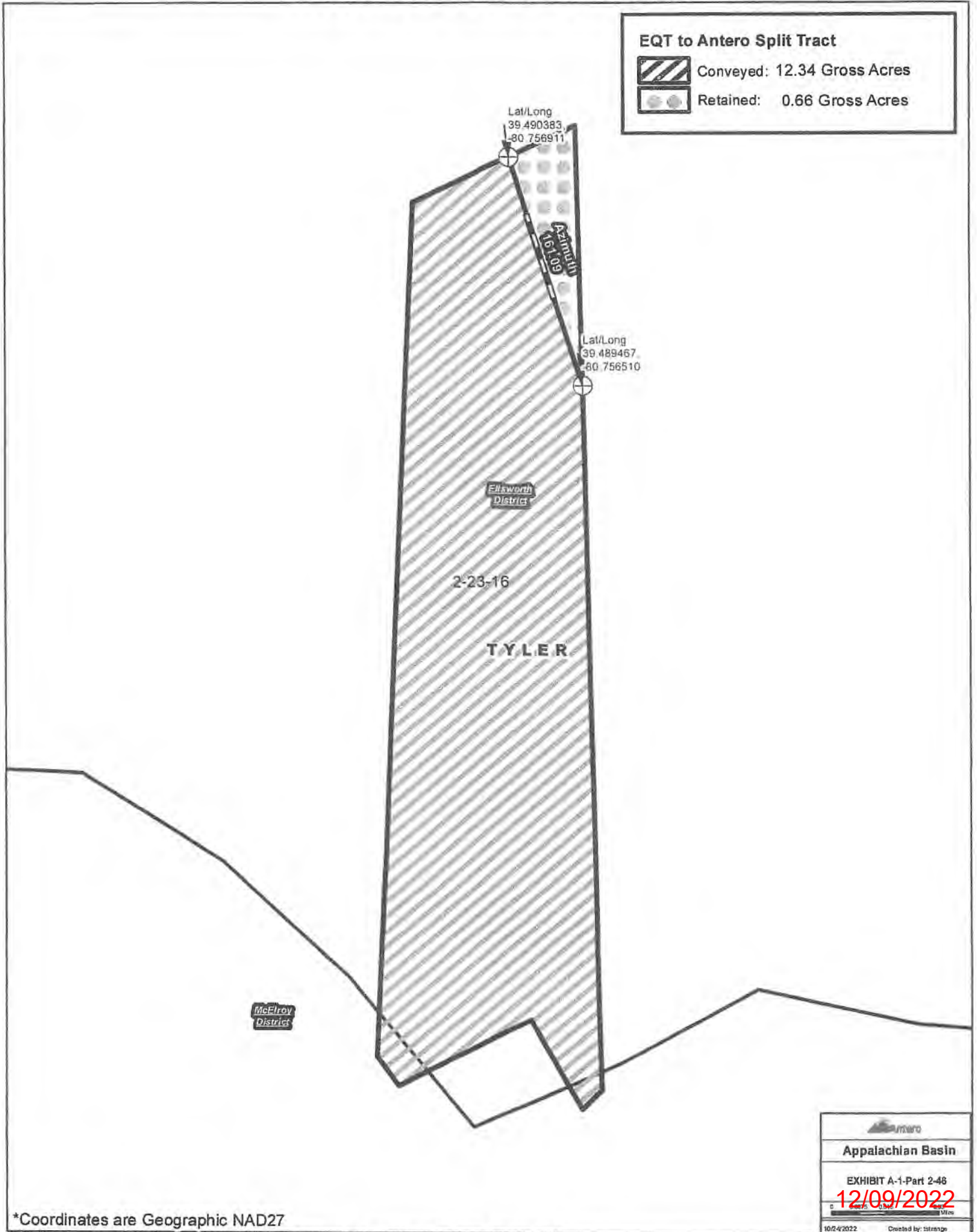
**12/09/2022**

10/23/2022 Created by: slranga


# EXHIBIT A-1-Part 2-46

### EQT to Antero Split Tract

-  Conveyed: 12.34 Gross Acres
-  Retained: 0.66 Gross Acres





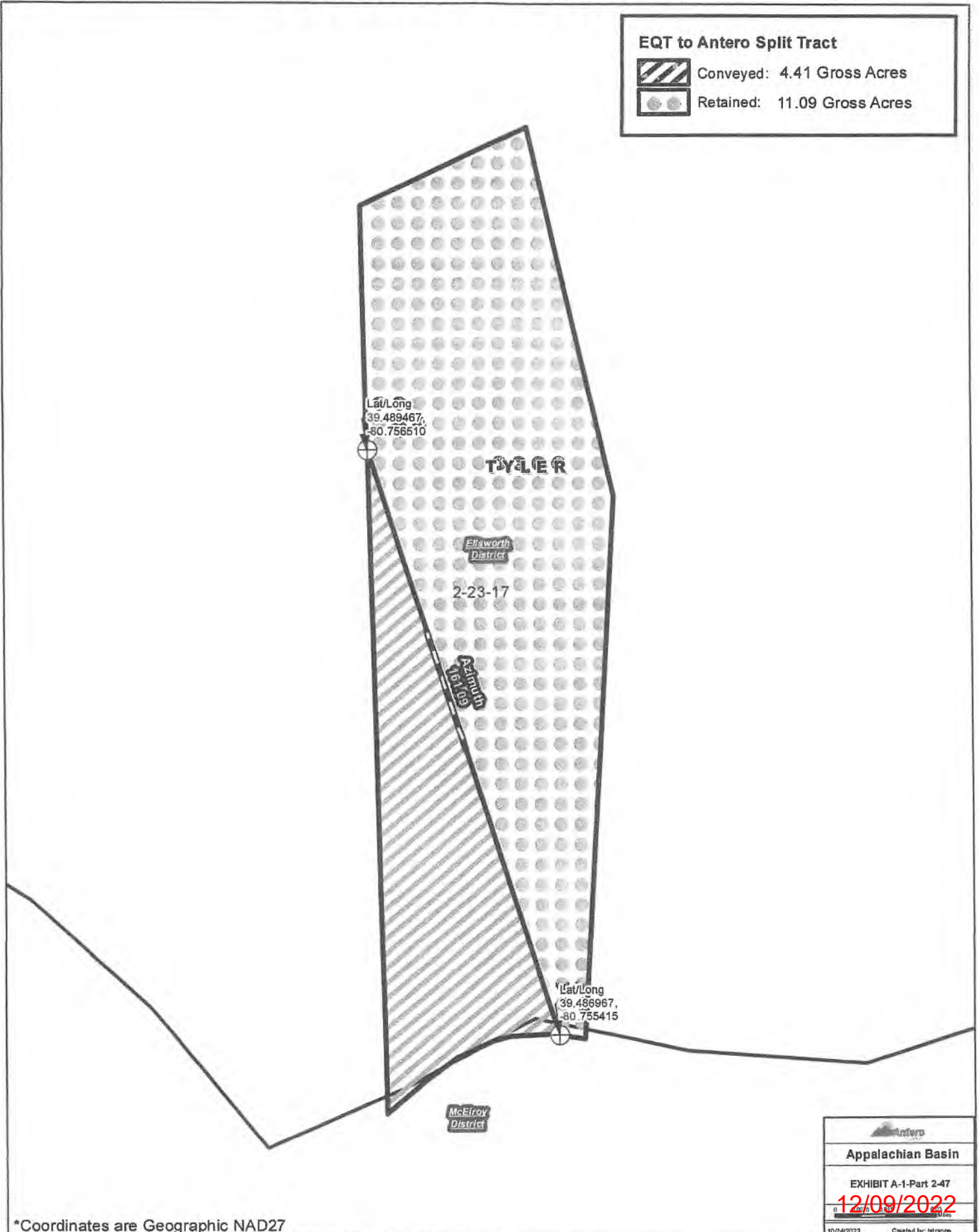
\*Coordinates are Geographic NAD27


<b>Appalachian Basin</b>
EXHIBIT A-1-Part 2-46
<b>12/09/2022</b>
10/24/2022 Created by: slrange


# EXHIBIT A-1-Part 2-47

### EQT to Antero Split Tract

-  Conveyed: 4.41 Gross Acres
-  Retained: 11.09 Gross Acres



\*Coordinates are Geographic NAD27

	
<b>Appalachian Basin</b>	
EXHIBIT A-1-Part 2-47	
<b>12/09/2022</b>	
10/24/2022	Created by: istrange

**Certificate Of Completion**

Envelope Id: 9EA133045A8D475C928BA9CF7EA95B96

Status: Completed

Subject: Complete with DocuSign: Compiled (Antero-EQT) Permission to Antero to Permit and Drill Executio...

Source Envelope:

Document Pages: 17

Signatures: 1

Envelope Originator:

Certificate Pages: 2

Initials: 2

Jarred Detweiler

AutoNav: Enabled

625 Liberty Ave Ste 1700

Enveloped Stamping: Enabled

Pittsburgh, PA 15222

Time Zone: (UTC-05:00) Eastern Time (US & Canada)

jdetweiler@eqt.com

IP Address: 100.6.91.42

**Record Tracking**

Status: Original

Holder: Jarred Detweiler

Location: DocuSign

11/8/2022 7:09:43 AM

jdetweiler@eqt.com

**Signer Events**

Jarred Detweiler

jdetweiler@eqt.com

Landman IV

EQT Corporation

Security Level: Email, Account Authentication (None)

**Signature**



**Timestamp**

Sent: 11/8/2022 7:11:57 AM

Viewed: 11/8/2022 7:12:09 AM

Signed: 11/8/2022 7:12:14 AM

Signature Adoption: Pre-selected Style  
Using IP Address: 136.226.48.251

**Electronic Record and Signature Disclosure:**  
Not Offered via DocuSign

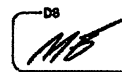
Matt Eller

meller@eqt.com

Land BD Director

EQT Corporation

Security Level: Email, Account Authentication (None)



Sent: 11/8/2022 7:12:17 AM

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Signed: 11/8/2022 1:04:31 PM

Signature Adoption: Pre-selected Style  
Using IP Address: 136.226.51.4

**Electronic Record and Signature Disclosure:**  
Not Offered via DocuSign

Corey Peck

cpeck@eqt.com

Managing Director - Land Ops

EQT Corporation

Security Level: Email, Account Authentication (None)

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Using IP Address: 174.203.111.19  
Signed using mobile

**Electronic Record and Signature Disclosure:**  
Not Offered via DocuSign

**In Person Signer Events**

**Signature**

**Timestamp**

**Editor Delivery Events**

**Status**

**Timestamp**

**Agent Delivery Events**

**Status**

**Timestamp**

**Intermediary Delivery Events**

**Status**

**Timestamp**

**Certified Delivery Events**

**Status**

**Timestamp**

**Carbon Copy Events**

**Status**

**Timestamp**

**Witness Events****Signature****Timestamp****Notary Events****Signature****Timestamp****Envelope Summary Events****Status****Timestamps**

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Certified Delivered

Security Checked

11/8/2022 1:47:46 PM

Signing Complete

Security Checked

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Completed

Security Checked

11/8/2022 1:48:06 PM

**Payment Events****Status****Timestamps**



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

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**Modification Horizontal H6A Well Work Permit API : (47-095-02798, 47-095-02803, & 47-095-02804)**

1 message

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

Wed, Dec 7, 2022 at 12:05 PM

To: Mallory Stanton <mstanton@anteroresources.com>, sgaspar@anteroresources.com, Dani DeVito <ddevito@shalepro.com>, ljackson@wvassessor.com, Stephen E McCoy <stephen.e.mccoy@wv.gov>

Attached is the newly issued permits:

**47-095-02804 - FORSTER UNIT 2H**  
**47-095-02803 - FORSTER UNIT 1H**  
**47-095-02798 - ATWOOD UNIT 1H**

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](mailto:Wade.A.Stansberry@wv.gov)**

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**3 attachments**

 **47-095-02803 - mod.pdf**  
1937K

 **47-095-02804 - mod.pdf**  
1982K

 **47-095-02798 - mod.pdf**  
1936K

12/09/2022