



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Friday, March 1, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for LINDSEY UNIT 1H
47-095-02547-00-00

Modified Well Bore Point of Entry and 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 positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: LINDSEY UNIT 1H
Farm Name: STEPHEN GRIMM
U.S. WELL NUMBER: 47-095-02547-00-00
Horizontal 6A New Drill
Date Modification Issued: March 1, 2019

Promoting a healthy environment.

WW-6B
(04/15)

Permit Modification API# 47-095-02547 ^{mod}
API NO. 47-095 - 02547 **03/01/2019**
OPERATOR WELL NO. Lindsey Unit 1H
Well Pad Name: Alta Pad

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

1) Well Operator: Antero Resources Corporation

<u>494507062</u>	<u>095 - Tyler</u>	<u>McElroy</u>	<u>Centerpoint 7.5'</u>
------------------	--------------------	----------------	-------------------------

Operator ID County District Quadrangle

2) Operator's Well Number: Lindsey Unit 1H Well Pad Name: Alta Pad

3) Farm Name/Surface Owner: Stephen Grimm Public Road Access: CR 23

4) Elevation, current ground: 848' Elevation, proposed post-construction: ~827'

5) Well Type (a) Gas Oil Underground Storage
Other
(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale: 7100' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2950#

8) Proposed Total Vertical Depth: 7100' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19900' MD

11) Proposed Horizontal Leg Length: 9654'

12) Approximate Fresh Water Strata Depths: 29', 369'

13) Method to Determine Fresh Water Depths: Offset well records. Depths have been adjusted according to surface elevations.

14) Approximate Saltwater Depths: 1093', 1159', 1260'

15) Approximate Coal Seam Depths: None Identified

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated
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17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No
WV Department of Environmental Protection

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

WW-6B
(04/15)

Permit Modification API# 47-095-02547 **MOD**
 API NO. 47-095 - 02547 **03/01/2019**
 OPERATOR WELL NO. Lindsey Unit 1H
 Well Pad Name: Alta 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#	80'	80'	CTS, 77 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	420' *see #19	420' *see #19	CTS, 583 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#	19900'	19900'	5064 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

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

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PACKERS

WV Department of
Environmental Protection

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

WW-6B
(10/14)

Permit Modification API# 47-095-02547 ^{MO}
API NO. 47- 095 - 02547 **03/01/2019**
OPERATOR WELL NO. Lindsey Unit 1H
Well Pad Name: Alta Pad

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

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.43 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.28 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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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.

95-02517119
03/01/2019



47095024590000

Lindsey Unit 1H

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Antero Resources Corporation

Lindsey Unit 1H - AOR



WELL SYMBOLS
At Total Depth
Gas Well



August 29, 2018

47017064160000

UWI (API/Num)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)	Perforated Formation(s)	Produible Formation(s) not perf'd
47093024590000	Dopey	1A	Jay-Bee Oil & Gas	Jay-Bee Oil & Gas	15,482	N/A	Waiting on Completion	Waiting on Completion
47017064360000	Hokkins Unit	1HST	Antero Resources Corporation	Antero Resources Corporation	16,996	7194 - 16,748	Marcellus Shale	Big Injun, Weir, Alexander

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WW-6A1
(5/13)

Operator's Well No. Lindsey Unit 1H

**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>Donald Lee Sweeney Lease</u>	Donald Lee Sweeney Four Leaf Land Company Antero Resources Appalachian Corp.	Four Leaf Land Company Antero Resources Appalachian Corporation Antero Resources Corporation	1/8 Assignment Name Change	0370/0605 0403/0561 Exhibit 1

*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.

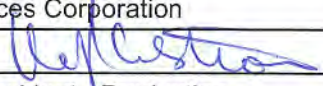
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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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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: Kevin Kilstrom  ✓
 Its: Senior Vice President - Production

Operator's Well Number

Lindsey Unit 1H

Permit Modification API# 47-095-02547 *MOD*

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
<u>M.V. B. George Lease</u> ✓			
M. V. B. George	IM Underwood	1/8	0066/0621
IM Underwood	Hope Natural Gas Company	Assignment	0071/0610
Hope Natural Gas Company	Consolidated Gas Supply Corp	Assignment	0169/0026
Consolidated Gas Supply Corp	Consolidated Gas Transmission Corp	Assignment	0249/0287
Consolidated Gas Transmission Corp	CNG Transmission Corp	Name Change	Exhibit 2
CNG Transmission Corp	Dominion Transmission, Inc	Name Change	Exhibit 3
Dominion Transmission, Inc	CONSOL Energy Holding LLC	Assignment	0374/0187
CONSOL Energy Holdings, LLC	CNX Gas Company	Name Change	0293/0252
CNX Gas Company	Antero Resources Appalachian Corp	Assignment	0425/0725
Antero Resources Appalachian Corp	Antero Resources Corp	Name Change	Exhibit 1
<u>Mary Jo Foster Living Trust Lease</u> ✓			
Mary Jo Foster Living Trust	Antero Resources Appalachian Corporation	1/8+	0406/0215
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>L. Brooks Coffman et ux Lease</u> ✓			
L. Brooks Coffman et ux	Drilling Appalachian Corporation	1/8	0276/0010
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	0401/0499
Antero Resources Appalachian Corp	Antero Resources Corporation	Name Change	Exhibit 1
<u>Edgar B. Hartley, heir of Heather Hartley Lease</u>			
Edgar B. Hartley, heir of Heather Hartley	Antero Resources Corporation	1/8+	0498/0326
<u>John B. Shepherd et ux Lease</u> ✓			
John B. Shepherd et ux	Antero Resources Appalachian Corporation	1/8+	0437/0327
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Nelda June Stubbs Lease</u> ✓			
Nelda June Stubbs	Antero Resources Corporation	1/8+	0459/0108
<u>Randi Michael Lease</u> ✓			
Randi Michael	Antero Resources Corporation	1/8+	0474/0777
<u>Perry W. Duckworth Lease</u> ✓			
Perry W. Duckworth	Antero Resources Corporation	1/8+	0481/0652
<u>Richard Gatrell et ux Lease</u> ✓			
Richard Gatrell et ux	Drilling Appalachian Corporation	1/8	0316/0150
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	0391/0416
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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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.

Operator's Well Number Lindsey Unit 1H
 Permit Modification API# 47-095-02547 *MOV*

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
<u>Donald Lee Sweeney Lease</u> ✓			
Donald Lee Sweeney	Four Leaf Land Company	1/8	0370/0605
Four Leaf Land Company	Antero Resources Appalachian Corporation	Assignment	0403/0561
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Rebecca L. Williams Lease</u> ✓			
Rebecca L. Williams	Drilling Appalachian Corporation	1/8	0311/0344
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	0391/0416
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>K & D Holdings Lease</u> ✓			
K & D Holdings	Antero Resources Corporation	1/8	0623/0791

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FORM WV-6A1
EXHIBIT 1

FILED

JUN 10 2013

Natalie E. Tennant,
Secretary of State
1900 Kanawha Blvd E
Bldg 1, Suite 157-E
Charleston, WV 25305



Penny Barker, Manager
Corporations Division
Tel: (304) 558-8000
Fax: (304) 558-8381
Website: www.wv.gov
E-mail: business@wv.gov

APPLICATION FOR
AMENDED CERTIFICATE
OF AUTHORITY

Office Hours: Monday - Friday
8:30 a.m. - 5:00 p.m. ET

FILE ONE ORIGINAL
(Two if you want a 3rd
stamped copy returned to you)
FEE: \$25.00

**** In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby ****
applies for an Amended Certificate of Authority and submits the following statement:

- 1. Name under which the corporation was authorized to transact business in WV: Antero Resources Appalachian Corporation
- 2. Date Certificate of Authority was issued in West Virginia: 6/25/2008
- 3. Corporate name has been changed to: Antero Resources Corporation
(Attach one Certified Copy of Name Change as filed in home State of incorporation.)
- 4. Name the corporation elects to use in WV: Antero Resources Corporation
(due to home state name not being available)
- 5. Other amendments: (attach additional pages if necessary)

6. Name and phone number of contact person. (This is optional, however, if there is a problem with the filing, listing a contact person and phone number may avoid having to return or reject the document.)

Alvyn A. Schopp (309) 367-7310
Contact Name Phone Number

7. Signature information (See below **Important Legal Notice Regarding Signatures**):

Print Name of Signer: Alvyn A. Schopp Title/Capacity: Authorized Person
Signature: [Handwritten Signature] Date: June 10, 2013

**Important Legal Notice Regarding Signatures: For West Virginia Code §11D-1-12. Penalty for signing false document. Any person who signs a document he or she knows is false in any material respect and knows that the document is to be delivered to the secretary of state for filing is guilty of a misdemeanor and, upon conviction thereof, shall be fined not more than one thousand dollars or confined in the county or regional jail not more than one year, or both.*

Form CF-1

Issued by the Office of the Secretary of State

Revised 4/08

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DEC 7 2018
WV Department of
Environmental Protection

95-02547(H01)
03/01/2019

FORM WW-6A1
EXHIBIT 2



I, Ken Heckler, Secretary of State of the State of West Virginia, hereby certify that originals of an application by

CONSOLIDATED GAS TRANSMISSION CORPORATION

for an amended certificate of authority to transact business in West Virginia are filed in my office, as required by the provisions of Chapter 31, Article 1, Sections 57 and 59 of the West Virginia Code and conform to law. Therefore, I issue this

AMENDED CERTIFICATE OF AUTHORITY

to transact business in West Virginia under the name of

CNG TRANSMISSION CORPORATION

and I attach to this certificate a duplicate original of the application.

Given under my hand and the Great Seal of the State of West Virginia, on this

THIRTEENTH day of JANUARY 19 88



Ken Heckler

Secretary of State

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WV Department of Environmental Protection

FORM WW-6A1
EXHIBIT 3

State of West Virginia



Certificate

I, Ken Hechler, Secretary of State of the State of West Virginia, hereby certify that

originals of an application by

CNG TRANSMISSION CORPORATION

for an amended certificate of authority to transact business in West Virginia are filed in my office, as required by the provisions of Chapter 31, Article 1, Sections 57 and 59 of the West Virginia Code and conform to law. Therefore, I issue this

AMENDED CERTIFICATE OF AUTHORITY

to transact business in West Virginia under the name of

DOMINION TRANSMISSION, INC.

and I attach to this certificate a duplicate original of the application.

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WV Department of
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Given under my hand and the Great Seal of the State of West Virginia on

May 10, 2000

Secretary of State



LATITUDE 39°25'00"

10,867'

LATITUDE 39°27'30" 4,648' TO BOTTOM HOLE

Antero Resources Corporation Well No. Lindsey Unit 1H

Table with 4 columns: TM-Par, Surface Owner, Book/Pg, Acreage. Lists various land parcels and owners.

NOTES: WELL 1H TOP HOLE INFORMATION: N: 328,148ft E: 1,647,651ft... BOTTOM HOLE INFORMATION: N: 337,376ft E: 1,642,221ft...

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 4,360,568m E: 521,819m... BOTTOM HOLE INFORMATION: N: 4,363,352m E: 520,118m

WV NORTH ZONE GRID NORTH

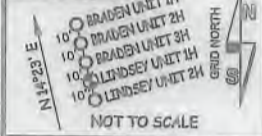
LONGITUDE 84°5'00"

8,165'

14,191' TO BOTTOM HOLE

LONGITUDE 80°42'30"

PAD LAYOUT



NOTE: 6 WATER WELLS WERE LOCATED WITHIN 2000' OF CENTER OF PAD

Table with 3 columns: LINE, BEARING, DISTANCE. Lists well locations W1 through W6.

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

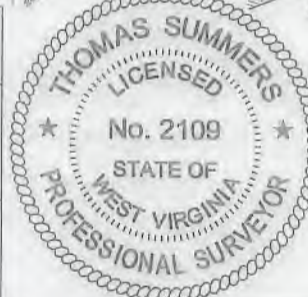
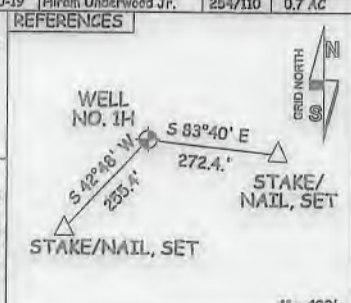


Table with 4 columns: TM-Par, Surface Owner, Book/Pg, Acreage. Lists additional land parcels and owners.

JOB # 18-017WA DRAWING # LINDSEY1H SCALE 1" = 2000' MINIMUM DEGREE OF ACCURACY SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND: Surface Owner Boundary Lines +/- Interior Surface Tracts +/- Existing Fence Found monuments as noted

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,305,582ft E: 1,711,955ft... POINT OF ENTRY INFORMATION: N: 14,305,537ft E: 1,709,362ft...



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL 47 095 02547 MOD LOCATION: ELEVATION 848' - ORIGINAL 827' PROPOSED WATERSHED McELROY CREEK QUADRANGLE 1H - CENTERPOINT 7.5' BH - SHIRLEY 7.5' DISTRICT McELROY COUNTY TYLER SURFACE OWNER STEPHEN GRIMM ACREAGE 44.38 ACRES +/- OIL & GAS ROYALTY OWNER M. V. B. GEORGE; MARY JO FOSTER LIVING TRUST; L. BROOKS COFFMAN ET UX; LEASE ACREAGE 300 AC±; 94 AC±; 88.13 AC±; EDGAR B. HARTLEY, HEIR OF HEATHER HARTLEY; JOHN B. SHEPHERD ET UX; NELDA JUNE STUBBS; 29 AC±; 18 AC±; 14 AC±; RANDI MICHAEL; PERRY W. DUCKWORTH; RICHARD GATRELL ET UX; DONALD LEE SWEENEY; K&D HOLDINGS, LLC. 320.94 AC±; 86.25 AC±; 100 AC±; 100 AC±; 12 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-BHIL PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,100' TVD 19,900' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313