



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 BRADEN UNIT 1H
47-095-02545-00-00

Modified Well Bore Point of Entry

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: BRADEN UNIT 1H
Farm Name: STEPHEN GRIMM
U.S. WELL NUMBER: 47-095-02545-00-00
Horizontal 6A New Drill
Date Modification Issued: March 1, 2019

Promoting a healthy environment.

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 McElroy Centerpoint 7.5'
Operator ID County District Quadrangle

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

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

4) Elevation, current ground: 827' 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: 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: 20700' MD

11) Proposed Horizontal Leg Length: 12004'

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

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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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#	20700'	20700'	5284 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							

PACKERS

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

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

Drill, perforate, fracture a new 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

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

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*Note: Attach additional sheets as needed.

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Permit Modification API# 47-095-02545 MOD

Braden Unit 1H

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Antero Resources Corporation

Braden Unit 1H - AOR



REMARKS

No wells of interest

February 27, 2018

Operator's Well Number

Braden Unit 1H

Permit Modification API# 47-095-02545 *WV*

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>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>C.B. Morris & S.A. Smith Irrevocable Trust Lease</u> ✓			
C.B. Morris & S.A. Smith Irrevocable Trust	Antero Resources Corporation	1/8	0632/0551
<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>Randi Michael Lease</u> ✓			
Randi Michael	Antero Resources Corporation	1/8+	0474/0777
<u>Donna Fogus Lease</u> ✓			
Donna Fogus	Antero Resources Corporation	1/8+	0577/0362
<u>Bayard Sweeney Jr, et ux Lease</u> ✓			
Bayard Sweeney Jr, et ux	Drilling Appalachian Corporation	1/8	0319/0308
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	0391/0416
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<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>Life & Abey LLC Lease (TM 16 PCL 5)</u> ✓			
Life & Abey LLC	Antero Resources Corporation	1/8	0534/0716
<u>Life & Abey LLC Lease</u> ✓			
Life & Abey LLC	Antero Resources Corporation	1/8	0534/0716

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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.

WW-6A1
(5/13)

Operator's Well No. Braden 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>Bayard Sweeney, Jr., et ux Lease</u>				
	Bayard Sweeney, Jr., et ux	Drilling Appalachian Corporation	1/8	0319/0308
	Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	0391/0416
	Antero Resources Appalachian Corp.	Antero Resources Corporation	Name Change	Exhibit 1

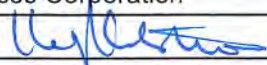
*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

**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

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

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95-02545 MOD
03/01/2019

**FORM WW-6A1
EXHIBIT 1**

FILED

JUN 10 2013

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



Penney Barker, Manager
Corporations Division
Tel: (304)558-8000
Fax: (304)558-8381
Website: www.wvsvos.com
E-mail: business@wvsvos.com

**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 filed
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 (303) 367-7310
 Contact Name Phone Number

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

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

Important Legal Notice Regarding Signature Per West Virginia Code §31D-1-12b. 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.

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LATITUDE 39°25'00"

10,875'

LATITUDE 39°27'30" 3,823' TO BOTTOM HOLE

LONGITUDE 80°45'00"

8,136'

12,369' TO BOTTOM HOLE

LONGITUDE 80°42'30"

Antero Resources Corporation Well No. Braden Unit 1H

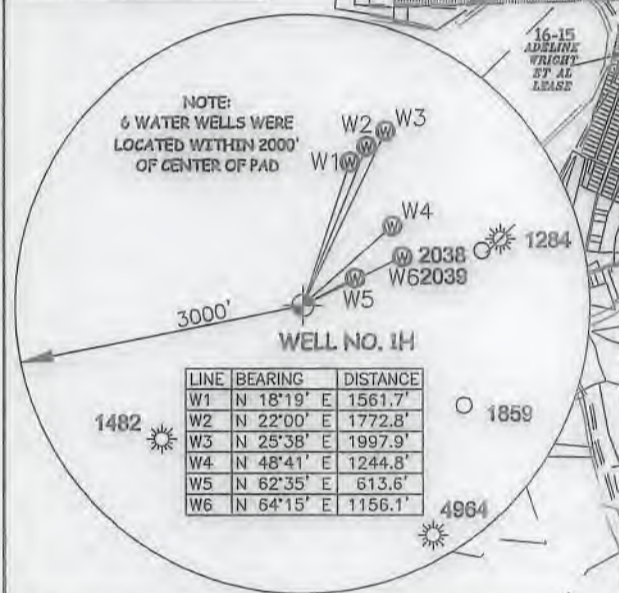
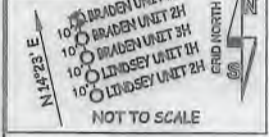
TM-Par	Surface Owner	Book/Pg	Acres
11-40	Hunter Real Estate LLC	375/505	106.87 AC
16-4	KES Investments 4 LLC	351/516	332.6 AC
16-4.1	Howard Pratt	329/705	77.75 AC
16-5	KES Investments 4 LLC	351/513	16 AC
16-6	KES Investments 4 LLC	351/513	33.75 AC
16-10	Mike Ross Inc.	366/372	43 AC
16-11	Charles Straight	347/282	12 AC
16-12	Boyd Nichols Est.	180/166	25 AC
16-13	Boyd Nichols Est.	180/166	25 AC
16-14	John Merritt	W53/39	86.25 AC
16-15	Ken Der Jr.	352/408	27.84 AC
16-15.1	Ken Der Jr.	345/278	99.98 AC
16-21	Maxine Volgyi	329/499	85 AC
16-22	Albert Rical Jr.	346/625	104 AC
17-9	Myra Parker	366/478	176 AC
17-17	Anthony Clark	334/201	31.48 AC
17-18	Gary Milley	311/195	13.51 AC
17-18.1	Myra Parker	366/478	6 AC
17-18.2	Gary Milley	300/72	10.95 AC
17-18.3	Gary Milley	331/12	6.53 AC
17-19	Clifton Weekley	258/566	11.1 AC
17-20	Brandy Grzeszmah	354/448	30 AC
19-15	Sharon George	315/461	1.69 AC
19-16	Teresa Weekley	328/431	8.72 AC
19-16.1	Teresa Weekley	W29/263	1.84 AC
19-16.2	Clifton Weekley	328/431	6.58 AC
19-16.4	Perry Weekley	328/649	0.72 AC
19-20	Howard Stubbs	228/32	18.75 AC
19-20.1	Howard Stubbs	330/610	12 AC
19-22	Douglas Enebx	334/266	5.27 AC
19-23	John Shepherd	330/115	18 AC
19-25	Jonathan Yeast	350/298	14 AC
19-27	Sandra Hopper	337/168A	99 AC
19-28	William Forbes	474/812	18 AC

NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 328,178ft E: 1,647,643ft
 LAT: 39°23'39.58" LON: 80°44'48.52"
 BOTTOM HOLE INFORMATION:
 N: 339,187ft E: 1,643,072ft
 LAT: 39°25'27.75" LON: 80°45'48.72"
 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: 4,360,577m E: 521,817m
 BOTTOM HOLE INFORMATION:
 N: 4,363,908m E: 520,368m

WV NORTH ZONE GRID NORTH

PAD LAYOUT



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



TM-Par	Surface Owner	Book/Pg	Acres
19-29	John Shepherd	330/115	31.75 AC
19-58	Robert Gilles	317/545	86.13 AC
20-1	Eloise Bailey	320/567	24.73 AC
20-1.1	Judy Weekley	247/239	0.37 AC
20-1.2	Charles Baird	345/468	18.54 AC
20-1.3	Charles Baird	345/468	9.07 AC
20-1.4	Mark Harris	371/286	2.147 AC
20-4	Lillian Corroll	351/131	1.13 AC
20-5	Lloyd Pitts	320/426	3.00 AC
20-5.1	Jeffrey Renshaw	335/779	2.636 AC
20-14	Forest Moore Jr.	253/83	0.81 AC
20-15	Gary Hamilton	363/209	50 AC
20-16	Larry Frazee	344/777	94 AC
20-17	Stephen Grimm	363/331	44.38 AC
20-17.1	Ralph Sweeney	301/2	12.466 AC
20-17.2	Mary Lemasters	W834/23	8.919 AC
20-18	Mary Lemasters	W834/23	26.75 AC
20-19	Hiram Underwood Jr.	284/110	0.7 AC

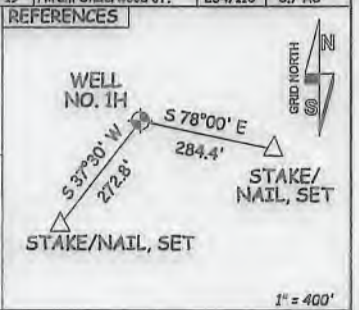
JOB # 18-002WA
 DRAWING # BRADEN1HR2
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND
 --- Surface Owner Boundary Lines +/-
 --- Interior Surface Tracts +/-
 X Existing Fence
 ⊕ Found monument, as noted

DOUGLAS R. ROWE P.S. 2202
 DATE 01/21/19
 OPERATOR'S WELL# BRADEN UNIT #1H

(NAD) 27 (UTM) ZONE 17 COORDS:
 WELL 1H TOP HOLE INFORMATION:
 N: 14,305,611ft E: 1,711,947ft
 POINT OF ENTRY INFORMATION:
 N: 14,305,124ft E: 1,710,898ft
 BOTTOM HOLE INFORMATION:
 N: 14,316,538ft E: 1,707,194ft

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.



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02545 MD
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
 LOCATION: ELEVATION 827' - AS BUILT WATERSHED McELROY CREEK
 QUADRANGLE TH - 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; C.B. MORRIS & S.A. SMITH IRREVOCABLE TRUST; LEASE ACREAGE 300 AC±; 50 AC±;
 MARY JO FOSTER LIVING TRUST; RANDI MICHAEL; DONNA FOGUS; BAYARD SWEENEY JR. ET UX; 94 AC±; 320.94 AC±; 60.91 AC±; 111.11 AC±;
 LIFE & ABEY, LLC; LIFE & ABEY, LLC; 33 AC±; 35 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 POE PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 7,100' TVD 20,700' 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