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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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Friday, January 19, 2018  
WELL WORK PERMIT  
Vertical / Plugging

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit approval for 7192 REV  
47-017-05400-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless 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: 7192 REV  
Farm Name: MOOSE, GENE & LINDA  
U.S. WELL NUMBER: 47-017-05400-00-00  
Vertical / Plugging  
Date Issued: 1/19/2018

Promoting a healthy environment.

01/19/2018

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## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. Plugging Marker Variance must be requested by the Surface Owner. In order to apply this variance a signed request by the surface owner must be received by the Office of Oil and Gas.

- 1) Date October 24, 2017
- 2) Operator's  
Well No. Well #7192REV
- 3) API Well No. 47-017 - 05400

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil \_\_\_\_/ Gas X/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_) Deep \_\_\_\_/ ShallowX
- 5) Location: Elevation 1165' Watershed Headwaters Middle Island Creek  
District West Union County Doddridge Quadrangle Smithburg 7.5'
- 6) Well Operator Antero Resources Corporation 7) Designated Agent CT Corporation System - Dianna Stamper  
Address 1615 Wynkoop Street Address 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Daniel Flack Name N/A - Antero will plug well  
Address 601 57th Street, SE Address \_\_\_\_\_  
Charleston, WV 25304

10) Work Order: The work order for the manner of plugging this well is as follows:

\*Please see attached Work Order.

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OK gmm For DANIEL FLACK  
1/19/18

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_



**Well #7192 REV**  
**Doddridge, WV**  
**API #47-017-05400**



**Antero Resources**  
 1615 Wynkoop St.  
 Denver, CO 80202  
**Office: 303.357.7310**  
**Fax: 303.357.7315**

**Objective:** Plug and Abandon Wellbore.

**Pipe Schedule:**

1. 13 3/8" @ 30'. Cemented to surface.
2. 9-5/8" set @ 124' with 50 sks - TOC TBD.
3. 7" set @ 1,404' with 220 sks - TOC TBD
4. 4 1/2" set @ 5,359' with 325 sks - TOC TBD.

Elevation: 1,208'

**Oil and Gas Zones:**

1. Maxton; Perfs (18 shots) from 1,614' – 1,622'
2. Little Lime: 1,800'-1,822'
3. Blue Monday: 1,823' – 1,870'; Perfs (21 shots) from 1,832' – 1,842'
4. Big Lime: 1,871'-1,915'
5. Big Injun: 1,916'-1,985'
6. Squaw: 1,996' – 2,014'
7. Weir: 2,160'-2,250'
8. Gantz Sand: 2,365' -2,382'
9. Gordon: 2,552' – 2,612'
10. Elizabeth: 3,210' – 3,278'
11. Warren: 3,300' – 3,375'; Perfs (20 shots) from 3,262' – 3,370'
12. Riley: 4,450' – 4,460'; Perfs (20 shots) from 4,453' – 4,458'
13. Benson: 4,910'- 4,935'
14. Alexander: 5,170'- 5,255'; Perfs from 5,204'-5,246'

**Procedure:**

1. Check and record all casing/annular pressures into Wellview.
2. Coordinate and schedule casing jacks.
3. Notify WVDEP prior to commencing work, for plug witnessing (Doddridge County Inspector).
4. Move in and rig up flat tank and frac tank (No pits will be utilized).
5. Move in rig up service unit.
6. NU BOPE and test – check and report surface pressure including bradenhead pressure.
7. Kill well
8. RU wireline and lubricator.
9. Make gauge ring run to PBTD. Pull out of hole. Note fluid depth tagged.
10. MIRU logging crew.
11. Load Hole with 6% gel.
12. Run CBL from PBTD to surface.
13. Locate TOC around 4.5" casing.
14. Discuss results with completions engineers before proceeding.
15. TIH with 2 3/8" tubing to 5,300'.
16. MIRU cement services. Mix and pump 47 sacks for balanced plug from 4,800'-5,300'. (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield =1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk)
  - a. Displace to balance plug
  - b. Slowly pull out of cement plug.
  - c. Reverse circulate tubing clear of cement.
17. Pull up to 4,500'
18. MIRU cement services. Mix and pump 19 sacks for balanced plug from 4,300'-4,500'. (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield =1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk)
  - a. Displace to balance plug
  - b. Slowly pull out of cement plug.
  - c. Reverse circulate tubing clear of cement.
19. Pull up to 3,400'
20. MIRU cement services. Mix and pump 28 sacks for balanced plug from 3,100'-3,400'. (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield =1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk)
  - a. Displace to balance plug
  - b. Slowly pull out of cement plug.
  - c. Reverse circulate tubing clear of cement.
21. Pull up to 2,620'

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22. MIRU cement services. Mix and pump 19 sacks for balanced plug from 2,420'-2,620'. (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield = 1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk)
  - a. Displace to balance plug
  - b. Slowly pull out of cement plug.
  - c. Reverse circulate tubing clear of cement.
23. Pull up to 2,400'
24. MIRU cement services. Mix and pump 65 sacks for balanced plug from 1,700'-2,400'. (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield = 1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk)
  - a. Displace to balance plug
  - b. Slowly pull out of cement plug.
  - c. Reverse circulate tubing clear of cement.
25. Pull up to 1,650'
26. MIRU cement services. Mix and pump 14 sacks for balanced plug from 1,500'-1,650'. (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield = 1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk)
  - a. Displace to balance plug
  - b. Slowly pull out of cement plug.
  - c. Reverse circulate tubing clear of cement.
  - d. WOC and tag TOC @ 1,500'
27. POOH with tubing.
28. Lubricate and RIH w/ CIBP and set at 1,500'. POOH w/ wireline.
29. PT CIBP to 500 psi.
30. RIH wireline and run free point above TOC in 4.5" casing
  - a. Chemical cut at TOC in 4 1/2" casing (exact depth determined via freepoint and CBL)
  - b. RU casing jacks and POOH – LD 4.5" casing.
31. PU and RIH w/ tubing to 1,499' (One foot above CIBP).
32. Mix and pump 42 sacks for balanced plug on CIBP from 1,300'-1,499' (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield = 1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk).
  - a. Displace to balance plug
  - b. Slowly pull out of cement plug
  - c. Reverse circulate tubing clear of cement.
  - d. WOC 8 hours.
  - e. RIH and tag plug @ 1,300'
  - f. If top of cement is deeper than 1,300', mix and spot cement so top is a minimum depth of 1,300'. Tag TOC.
33. Pull up to 200'
34. Mix and pump ~55 sacks from 200'-surface (Class A cement + 2% CaCl<sub>2</sub>, 20% excess included; yield = 1.18 ft<sup>3</sup>/sk, WR=5.2 gal/sk)
35. TOOH
36. Wait on cement 8hrs.
37. Set offsite marker plate with API number (API No.: 47-017-05400).
38. Establish remote dry hole marker & provide direction and distance to DEP

★ SEE ATTACHED PLUGGING MARKER VARIANCE.

\* VARIANCE MUST BE REQUESTED BY SURFACE OWNER.

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## PLUGGING MARKER VARIANCE

The Office of Oil and Gas is <sup>gwm</sup> ~~considering~~ granting a general variance to the requirements under 35CSR4-5.5b of erecting a monument upon the plugging of certain wells. If granted, the following conditions will be met:

- 1) the well will be surveyed and a plat constructed as required under 22-6 of the WV Code and 35CSR4,
- 2) a readily visible, permanent offset marker, in as close proximity as reasonably possible, will be erected and will provide distance and bearing information to the plugged well,
- 3) the plugging affidavit (form WR-38), will document the absence of a monument at the well location and document the existence and location of the offset marker,
- 4) a steel plate no smaller than one square foot shall be affixed to the well casing no deeper than three feet below the ground surface and be inscribed with the api number of the well.

To qualify under the general variance, an operator may make a variance request to the Chief of the Office of Oil and Gas for a specific well(s) in conjunction with a showing of good cause by the surface owner.

WK-53  
Rev (5-01)

DATE: 09/04/2007  
API #: 47 017 05400

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Moose, Gene & Linda Operator Well No.: 7192 Rev  
 LOCATION: Elevation 1207.58' Quadrangle: Smithburg  
 District: West Union County: Doddridge  
 Latitude: 4.610 Feet South of 39 Deg. 17 Min. 30 Sec.  
 Longitude 4.955 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: Dominion Exploration & Production, Inc

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P O Box 1248 Jane Lew, WV 26378				
Agent: <u>Rodney J. Biggs</u>				
Inspector: <u>Mike Underwood</u>				
Date Permit Issued: <u>04/11/2007</u>				
Date Well Work Commenced: <u>07/17/2007</u>	<u>13 3/8"</u>	<u>30'</u>	<u>30'</u>	<u>Sand In</u>
Date Well Work Completed: <u>08/02/2007</u>				
Verbal Plugging <u>N/A</u>	<u>9 5/8"</u>	<u>124'</u>	<u>124'</u>	<u>50 sks</u>
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable Rlg	<u>7"</u>	<u>1404'</u>	<u>1404'</u>	<u>220 sks</u>
Total Depth (feet): <u>5450'</u>				
Fresh Water Depth (ft.): <u>N/A</u>	<u>4 1/2"</u>	<u>5359'</u>	<u>5359'</u>	<u>325 sks</u>
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				

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OPEN FLOW DATA

Alexander 5204-5246'  
 Riley 4453-4458'  
 Producing formation Warren Pay zone depth (ft) 3262-3370  
 Gas: Initial open flow 80 MCF/d Oil: Initial open flow 0 Bbl/d  
 Final open flow 133 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests 12 Hours  
 Static rock Pressure 300 psig (surface pressure) after 12 Hours  
Blue Monday 1832-1842'  
 Second producing formation Maxton Pay zone depth (ft) 1614-1622'  
 Gas: Initial open flow \* MCF/d Oil: Initial open flow \* Bbl/d  
 Final open flow \* MCF/d Final open flow \* Bbl/d  
 Time of open flow between initial and final tests \* Hours  
 Static rock Pressure \* psig (surface pressure) after \* Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Rodney J. Biggs  
 By: Rodney J. Biggs  
 Date: 9/7/07

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Office of Coal  
SEP 07 2007  
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0000 5700

09/19/2018



8/2/07

RAN BOND LOG. TD - 5343'. TOC - 1440'. PERFED AND FRACED AS FOLLOWS:  
 ALEXANDER, 5204'-5246', 20 HOLES, BD 2500#, AVG RATE 18 BPM, AVG PRESS 1615#,  
 293 BBLS, TOT SAND 11,000#, 31 MSCFN2, ISIP 1030#  
 RILEY, 4453'-4458', 20 HOLES, BD 1540#, AVG RATE 18 BPM, AVG PRESS 1685#,  
 371 BBLS, TOT SAND 20,000#, 36 MSCFN2, ISIP 1300#  
 WARREN, 3262'-3370', 20 HOLES, BD 3550#, AVG RATE 18 BPM, AVG PRESS 1856#,  
 314 BBLS, TOT SAND 17,500#, 39 MSCFN2, ISIP 1300#  
 BLUE MONDAY, 1832'-1842', 21 HOLES, BD 3880#, AVG RATE 18 BPM, AVG PRESS  
 1798#, 266 BBLS, TOT SAND 15,000#, 29 MSCFN2, ISIP 1120#  
 MAXTON, 1614'-1622', 18 HOLES, BD 4050#, AVG RATE 3 BPM, AVG PRESS 3950#,  
 20 BBLS, TOT SAND - N/A, MSCFN2 - N/A, ISIP 1400#

47-017-05400

Sand & Shale	6	19	Sand & Shale	1010	1035
Sand	19	23	Sand	1035	1088
Shale	23	35	Shale	1088	1127
RR	35	57	Sand & Shale	1127	1288
Sand & Shale	57	73	Sand	1288	1347
Shale	73	88	Sand & Shale	1347	1430
RR	88	107	3 <sup>rd</sup> Salt Sand	1430	1645
Sand & Shale	107	129	Sand & Shale	1645	1685
Sand	129	137	Sand & Shale	1685	1800
RR	137	148			
Sand & shale	148	170			
Sand & Shale	170	240			
RR	240	255			
Sand & Shale	255	300			
Sand	300	325			
RR	325	340			
Sand & Shale	340	435			
Sand	435	445			
Sand & Shale	445	480			
Sand	480	498			
Sand & shale	499	568			
Sand	568	590			
Sand & Shale	590	890			
Shale	890	945			
Sand & Shale	945	990			
Shale	990	1010			

GAMMA RAY FORMATION TOPS					
DEPI.#7192			047-017-05400		
		TOP	BASE		
LITTLE LIME		1800	1822		
BLUE MONDAY		1823	1870		
BIG LIME		1871	1915		
BIG INJUN SAND		1916	1985		
SQUAW		1996	2014		
WEIR		2160	2250		
GANTZ SAND		2365	2382		
GORDON		2552	2612		
ELIZABETH		3210	3278		
WARREN		3300	3375		
RILEY		4450	4460		
BENSON		4910	4935		
ALEXANDER		5170	5255		
LTD			5456		

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DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

API NUMBER 47- 017 - \_\_\_\_\_

Operator's Well No. 7192 (REV.) \_\_\_\_\_

Operator Name DOMINION EXPLORATION & PRODUCTION, INC. OP ID \_\_\_\_\_

Watershed BUCKEYE CREEK Quadrangle SMITHBURG

Elevation 1207.58' County DODDRIDGE District WEST UNION

Description of anticipated Pit Waste: FLUIDS ASSOCIATED WITH THE DRILLING OF NEW GAS WELLS

Will a synthetic line be used in the pit? YES

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- \_\_\_\_\_ Underground Injection (UIC Permit Number \_\_\_\_\_)
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_)
- \_\_\_\_\_ Off Site Disposal (Supply for WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain) \_\_\_\_\_

Proposed Work For Which Pit Will Be Used:

- Drilling \_\_\_\_\_ Swabbing
- \_\_\_\_\_ Workover \_\_\_\_\_ Plugging
- \_\_\_\_\_ Other (Explain) \_\_\_\_\_

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on June 14, 1994, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature RODNEY J. BIGGS *Rod Biggs*

Company Official (Typed Name) RODNEY J. BIGGS

Company Official Title GENERAL MANAGER WEST VIRGINIA & APPALACHIAN CBM

Subscribed and sworn before me this 22nd day of March, 20 07

Brandi M. Kelley Notary Public

My commission expires June 13, 2015

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Office of Chief  
MAR 26 2007  
WV Department of  
Environmental Protection  
*E.H.*



017-05400P

LEGEND

Property Boundary		Diversion	
Road		Spring	
Existing Fence		Wet Spot	
Planned Fence		Drain Pipe with size in inches	
Stream		Waterway	
Open Ditch		Cross Drain	
Rock		Artificial Filter Strip	
North		Pit: cut walls	
Water wells		Pit: compacted fill walls	
Drill Site		Area for Land Application of Pit Waste	

Proposed Revegetation Treatment: Acres Disturbed 3.00 Prevegetation pH \_\_\_\_\_  
 Lime according to pH test Tons/acre or correct to pH 6.5  
*NO LESS 2 TONS PER ACRE*  
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)  
 Mulch HAY OR STRAW 2 Tons/acre  
*PLEASE SEE 01 MAKE ALL OPEN CUTS*

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
ORCHARDGRASS	25	ORCHARDGRASS	25
BIRDSFOOT TREFOIL	15	BIRDSFOOT TREFOIL	15
LADINO CLOVER	10	LADINO CLOVER	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

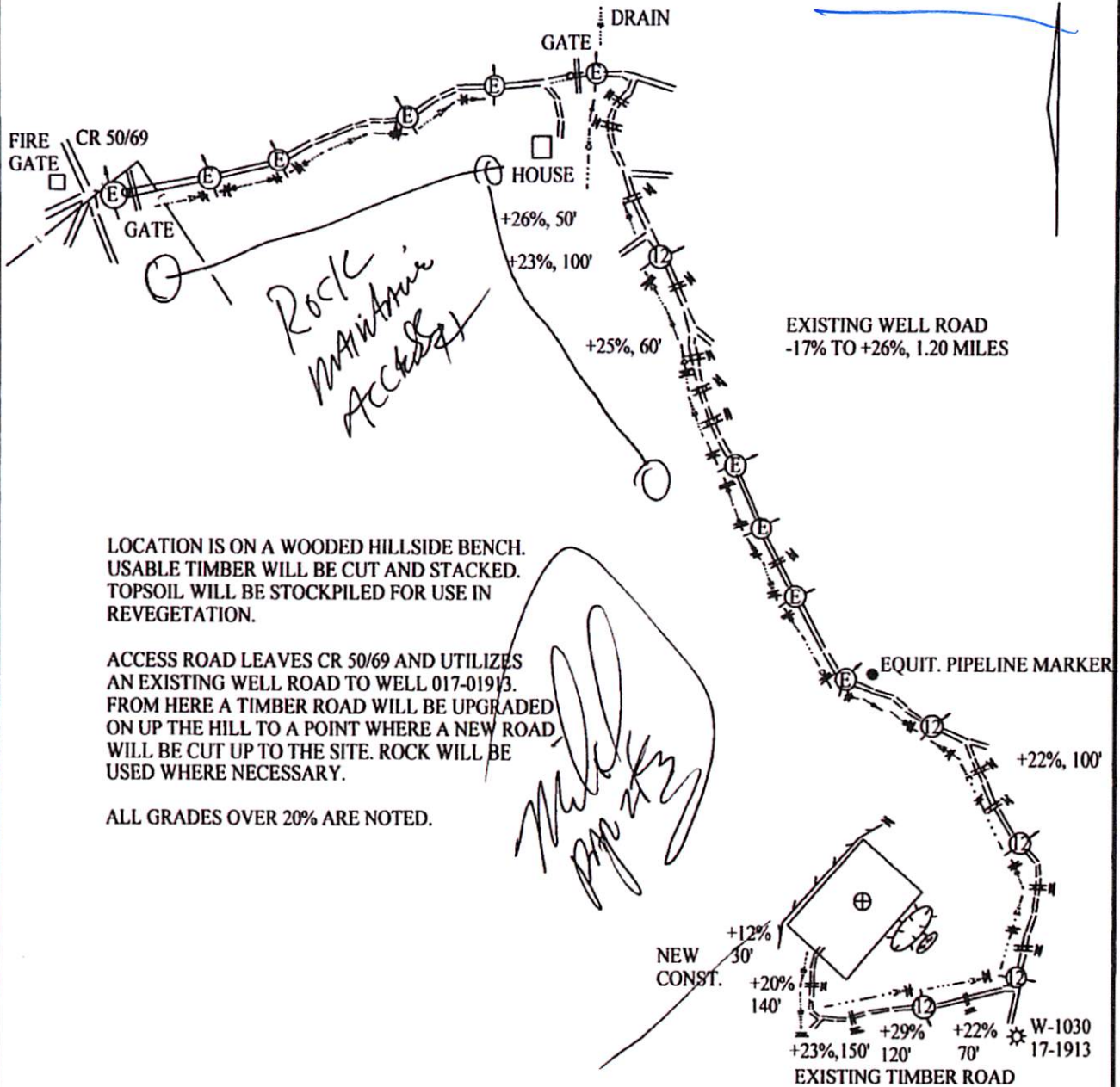
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:   
 Title: Pit/Cats Insp  
 Field Reviewed? (  ) Yes (  ) No

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017-05400P



LOCATION IS ON A WOODED HILLSIDE BENCH. USABLE TIMBER WILL BE CUT AND STACKED. TOPSOIL WILL BE STOCKPILED FOR USE IN REVEGETATION.

ACCESS ROAD LEAVES CR 50/69 AND UTILIZES AN EXISTING WELL ROAD TO WELL 017-01913. FROM HERE A TIMBER ROAD WILL BE UPGRADED ON UP THE HILL TO A POINT WHERE A NEW ROAD WILL BE CUT UP TO THE SITE. ROCK WILL BE USED WHERE NECESSARY.

ALL GRADES OVER 20% ARE NOTED.

DRAWINGS TO ACCOMPANY FORM WW-9

DOMINION EXPLORATION & PRODUCTION INC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED:

BUCKEYE CREEK

DISTRICT: WEST UNION

COUNTY: DODDRIDGE

QUADRANGLE: SMITHBURG

WELL NO.: 7192 (REV.)

DATE: 08/16/06

PAGE \_\_\_ of \_\_\_

LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018 OR 5762

Office of Oil & Gas  
Office of Chief  
MAR 26 2007  
WV Department of Environmental Protection

WW-4A  
Revised 6-07

1) Date: October 24, 2017  
2) Operator's Well Number  
Well #7192REV

3) API Well No.: 47 - 017 - 05400

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Gene P. &amp; Linda G. Moose</u>	Name <u>NO DECLARATIONS ON RECORD WITH COUNTY</u>
Address <u>680 Barlow Greenmount Road</u> <u>Gettysburg, PA 17325</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NO DECLARATIONS ON RECORD WITH COUNTY</u>
(c) Name <u>*All other surface owners with existing access road disturbance</u>	Name _____
Address <u>are off-lease and not required to be notified.</u>	Address _____
6) Inspector <u>Daniel Flack</u>	(c) Coal Lessee with Declaration
Address <u>601 57th Street SE</u> <u>Charleston, WV 25304</u>	Name <u>NO DECLARATIONS ON RECORD WITH COUNTY</u>
Telephone <u>304-545-0109</u>	Address _____

**TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:**

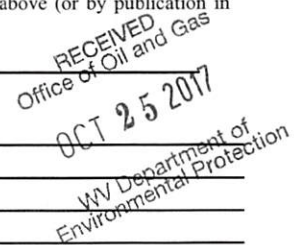
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Antero Resources Corporation  
 By: Diana Hoff *Diana O. Hoff*  
 Its: Vice President - Operations  
 Address 1615 Wynkoop Street  
Denver, CO 80202  
 Telephone 303-357-7310



Subscribed and sworn before me this 24th day of October 2017  
S. Johnson Notary Public  
My Commission Expires 7/8/2020

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).



WW-9  
Rev. 5/08

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 017 - 05400  
Operator's Well No. Well #7192REV

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Antero Resources Corporation OP Code 494507062

Watershed Headwaters Middle Island Creek Quadrangle Smithburg 7.5'

Elevation 1165' County Doddridge District West Union

Description of anticipated Pit Waste: No pit will be used at this site (All fluids will be stored in tanks and either reused or hauled off site)

Will a synthetic liner be used in the pit? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number UIC Permit # will be provided on Form WR-34 )
- Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34 )
- Off Site Disposal (Supply form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
- Other (Explain Northwestern Landfill Permit #SWF-1025/WV0109410)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Swabbing
- Workover
- Plugging
- Other (Explain \_\_\_\_\_)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Gretchen Kohler*

Company Official (Typed Name) Gretchen Kohler

Company Official Title Senior Environmental & Regulatory Manager

Subscribed and sworn before me this 24<sup>th</sup> day of October, 20 17

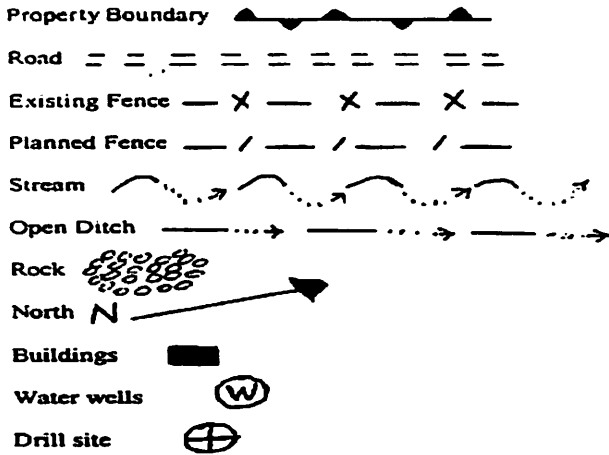
*S. Johnson* Notary Public

My commission expires 7/8/2020

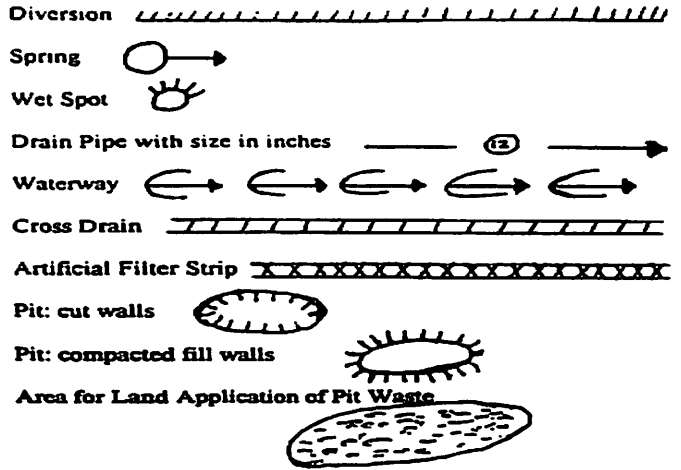
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**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed 5.26 acres Prevegetation pH \_\_\_\_\_

Lime 2-3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2-3 Tons/acre (Hay, straw or wood fiber (will be used where needed))

**Seed Mixtures**

Seed Type	Area I	lbs/acre
Annual Ryegrass		40
Field Bromegrass		40

Please reference Table IV-3 on page 7 of the Well #7192REV Well Plugging Plan

\*or type of grass seed requested by surface owner

Seed Type	Area II	lbs/acre
Crownvetch		10-15
Tall Fescue		30

Please reference Table IV-4A on page 7 of the Well #7192REV Well Plugging Plan

\*or type of grass seed requested by surface owner

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Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

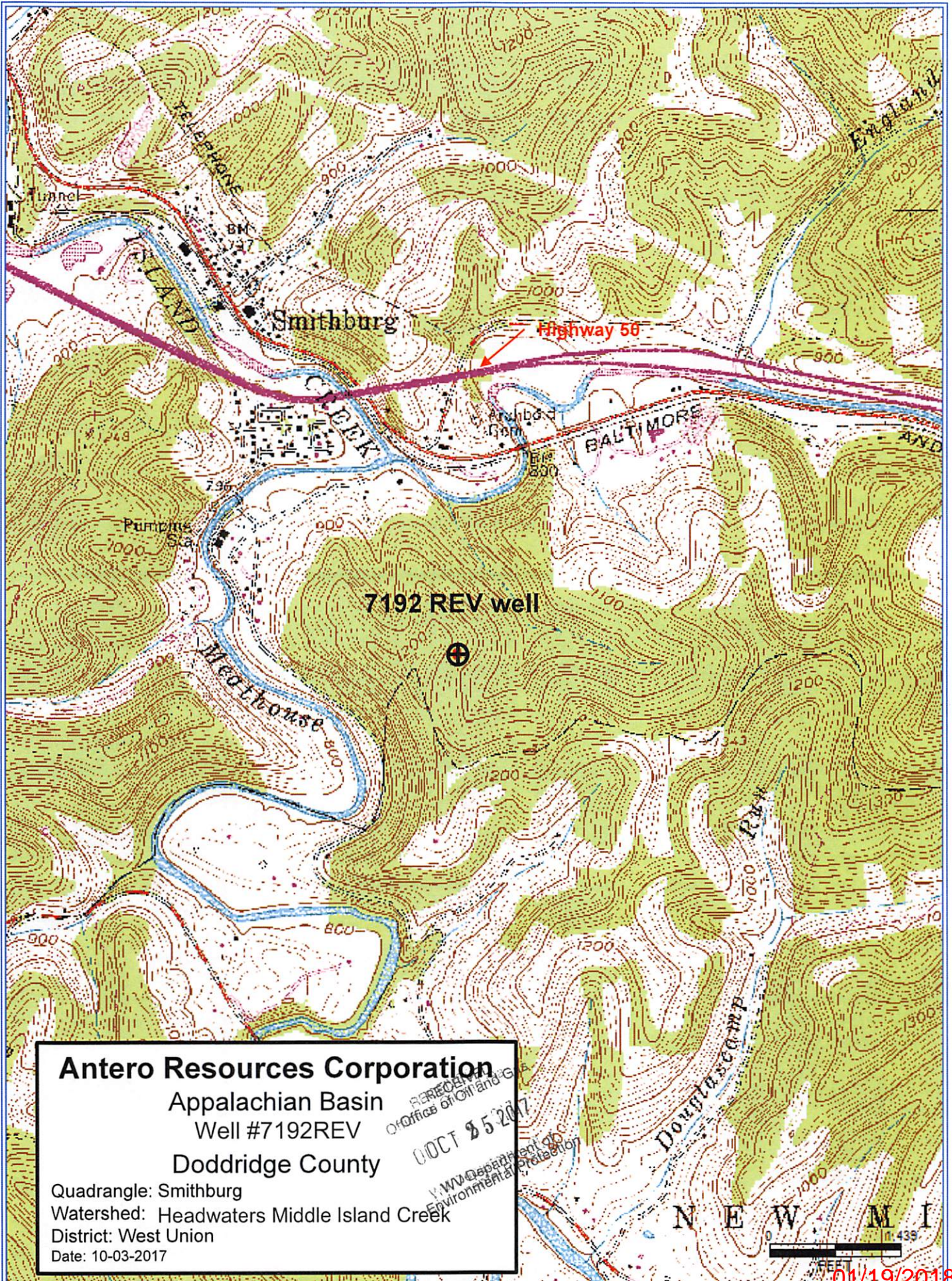
Plan Approved by: \_\_\_\_\_

Comments: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No





**Antero Resources Corporation**  
 Appalachian Basin  
 Well #7192REV  
 Doddridge County

Quadrangle: Smithburg  
 Watershed: Headwaters Middle Island Creek  
 District: West Union  
 Date: 10-03-2017

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WW-7  
8-30-06



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Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-017-05400 WELL NO.: 7192REV  
 FARM NAME: Moose, Gene & Linda  
 RESPONSIBLE PARTY NAME: Antero Resources Corporation  
 COUNTY: Doddridge DISTRICT: West Union  
 QUADRANGLE: Smithburg  
 SURFACE OWNER: Gene P & Linda G Moose  
 ROYALTY OWNER: Consol Gas Company  
 UTM GPS NORTHING: 4347749.41 m (1165')  
 UTM GPS EASTING: 523673.0 m GPS ELEVATION: 355.1 m

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS  : Post Processed Differential \_\_\_\_\_  
 Real-Time Differential

Mapping Grade GPS  : Post Processed Differential \_\_\_\_\_  
 Real-Time Differential

- Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Mam Sta  
Signature

Permitting Supervisor 10/24/17  
Title Date

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