

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

March 26, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706704, issued to ANTERO RESOURCES CORPORATION, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Operator's Well No: HUNTER UNIT 2H

Farm Name: WEBB, JAMES E.

API Well Number: 47-1706704

Permit Type: Horizontal 6A Well

Date Issued: 03/26/2015

API Number: 1706704

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operato	or: Antero F	Resources C	orporation	494488557	017- Doddridge	Central	Oxford 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's W	ell Number	: Hunter Ur	nit 2H	Well Pad	Name: James	Webb Pa	d
3) Farm Name/S) Farm Name/Surface Owner: Webb, James E. Public Road Access: CR 21/1						
4) Elevation, cu	rrent groun	d: ~995'	El	evation, proposed p	ost-construction	on: 991'	
5) Well Type	(a) Gas Other		_ Oil	Unde	rground Storag	е	
	(b)If Gas	Shallow	-	Deep			_
		Horizontal	,				
6) Existing Pad	: Yes or No	No					/
		5.5		ipated Thickness ar - 60 feet, Associated			
8) Proposed Tot	tal Vertical	Depth: 7,2	00' TVD				
9) Formation at	Total Verti	cal Depth:	Marcellus	Shale			15
10) Proposed To	otal Measur	ed Depth:	18,500' ME	0			2
11) Proposed H	orizontal Le	eg Length:	10,812'				
12) Approximat	te Fresh Wa	ter Strata D	epths:	64', 80', 145' - Legge	ett Unit 1H - 310' (ne	arby Robert W	filliams Pad - 990' elevation)
13) Method to I 14) Approximat			-	Offset well records. Dep	oths have been adj	usted accord	ing to surface elevations.
15) Approximat	te Coal Sear	n Depths:	183', 716',	1463'			
16) Approximat	te Depth to	Possible Vo	id (coal m	ine, karst, other):	None anticipated		
17) Does Propo directly overlyi				ms Yes	No	√	
(a) If Yes, pro	vide Mine I	nfo: Name	e:				
*		Dept					
		Seam	:				
		A	-				

RECEIVED Office of Oil and Gas

MAR 2 4 2015

WV Department of Environmental Protection

18)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	New	H-40	94#	40'	40'	CTS, 38 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	400' (*see note below)	400' (*see note below)	CTS, 556 Cu. Ft
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	18,500'	18,500'	4,695 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7,100'	110
Liners							

*Surface Casing Setting depth was updated per request by WVDEP Office of Oil & Gas and Inspector Doug Newlon (email string dated 3/13/2015) based on offset fresh water depth encountered while drilling on the nearby Robert Williams pad.

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	Class A	1.18
Intermediate						
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12630	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11200		
Liners						

PACKERS

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

RECEIVED
Office of Oil and Gas

MAR 2 4 2015

WV Department of Environmental Protection 11/07/2025

2 3

17-06704

RECEIVED Office of Oil and Gas

MAR 2 4 2015

19) Describe proposed well work, including the drilling and plugging back of an White Recurrent of
Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.
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."
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.41 acres
22) Area to be disturbed for well pad only, less access road (acres): 4.17 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.

*Note: Attach additional sheets as needed.

WW-9 (9/13)

API Number 47 -	017	•
Operator's	Well No.	Hunter Unit 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

1 Louis, Co. M. Co.	
Operator Name Antero Resources Corporation OP Code 494488557	
Watershed (HUC 10) Cabin Run Quadrangle Oxford 7.5'	
Elevation 991' County Doddridge District Central	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No No pit will be used at this site (D/dling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauded offalls). Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A Proposed Disposal Method For Treated Pit Wastes:	
Will a pit be used? Yes No Was No pit will be used at this site (Didling and Flowback Fluids will be stored in tanks. Guttings will be tanked and hauled offelle).	20
Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A	7. I
Proposed Disposal Method For Treated Pit Wastes:	
Land Application Underground Injection (UIC Permit Number) Reuse (at API NumberFuture 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	
Will closed loop system be used? If so, describe: Yes	
Will closed loop system be used? If so, describe: 1es Surface - Margine - Ma	
-If oil based, what type? Synthetic, petroleum, etc. 1902	
Additives to be used in drilling medium? Please See Attachment	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Stored in tanks, removed offsite and taken to landfill.	
at left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98)	
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 KARA OUT	
Company Official (Typed Name) Cole Kilstrom	
Company Official Title Environmental Representative	
Subscribed and sworn before me this 4 day of Delember , 20 14 SULY 21, 2018 Notary Public Notary Public Communication of the control of the	
1 ON ONLO	
My commission expires JMV 21, 2018 DEC 1 2 2014	

Form WW-9		Operator's Weil No	Hunter Unit 2H	
Antero Resources Corporation				
Proposed Revegetation Treatment: Acres Disturbed	3.41 acre	S Prevegetation pH		
Lime Z-4 Tons/acre or to corre	ect to pH	.5		
Fertilizer type Hay or straw or Wood Fiber (will	be used where	needed)		
Fertilizer amount 500	lbs/ac			
Mulch_ 2-3	_Tons/acre			
	(4,17) + Access Re	oad (4.24) = 8.41 Acres		
Temporary		Permanent		
Seed Type lbs/acre		Seed Type	lbs/acre	
Annual Rye Grass 40		Crownvetch	10-15	
*See altached Table 3 for additional seed type (James Webb Pad Design Pag	e 15)	*See attached Table 4A for additional seed type (Jame	s Webb Pad Design Page 15)	
*or type of grass seed requested by surface ow		*or type of grass seed requested by surface owner		
Attach: Drawing(s) of road, location, pit and proposed area for provided) Photocopied section of involved 7.5' topographic sheet		ation (unless engineered plans includi	ng this info have been	
Plan Approved by: Douglas A sule Comments: Presends Mich Wi Def regulations	100	tall + Maintain	1289 To	
Title: Oil & bag inspecto		Date: 12 -10 - 2	2014	
Title: Oil & bag inspector Field Reviewed? (Yes) No		

Received Office of Oil & Gas



Well Site Safety Plan **Antero Resources**

Well Name: Mary Jane Unit 1H, Mary Jane Unit 2H, Mary

> Jane Unit 3H, Hunter Unit 1H, Hunter Unit 2H, Mahogany Unit 1H, Mahogany Unit 2H, King

Unit 1H, King Unit 2H

Pad Location: JAMES WEBB PAD

Doddridge County/ Central District

GPS Coordinates: Lat 39°14′18.9564″/Long 80°52′23.6316″ (NAD83)

Driving Directions:

From Greenwood, head southeast on County Route 50/30/Old U.S. 50 West/Sunnyside Road for 3.4 miles. Turn right onto County Route 21/Oxford Road and continue for 2 miles. Turn right onto County Route 21/1/Cabin Run. After approximately 0.4 miles, access road will be on the right.

EMERGENCY (24 HOUR) CONTACT 1-800-878-1373

Dougles NewlReceived
12-8-2014 Office of Oil & Gas

Form WW-9 Additives Attachment

SURFACE INTERVAL

- 1. Fresh Water
- 2. Soap -Foamer AC
- 3. Air

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

PRODUCTION INTERVAL

1. Alpha 1655

Salt Inhibitor

2. Mil-Carb

Calcium Carbonate

3. Cottonseed Hulls

Cellulose-Cottonseed Pellets – LCM

4. Mil-Seal

Vegetable, Cotton & Cellulose-Based Fiber Blend – LCM

5. Clay-Trol

Amine Acid Complex - Shale Stabilizer

6. Xan-Plex

Viscosifier For Water Based Muds

7. Mil-Pac (All Grades)

Sodium Carboxymethylcellulose - Filtration Control Agent

8. New Drill

Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer

9. Caustic Soda

Sodium Hydroxide – Alkalinity Control

10. Mil-Lime

Calcium Hydroxide – Lime

WVV Department of Environmental Protection

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica - LCM

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene – Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite – LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt – Shale Control Additive

30. Xanvis

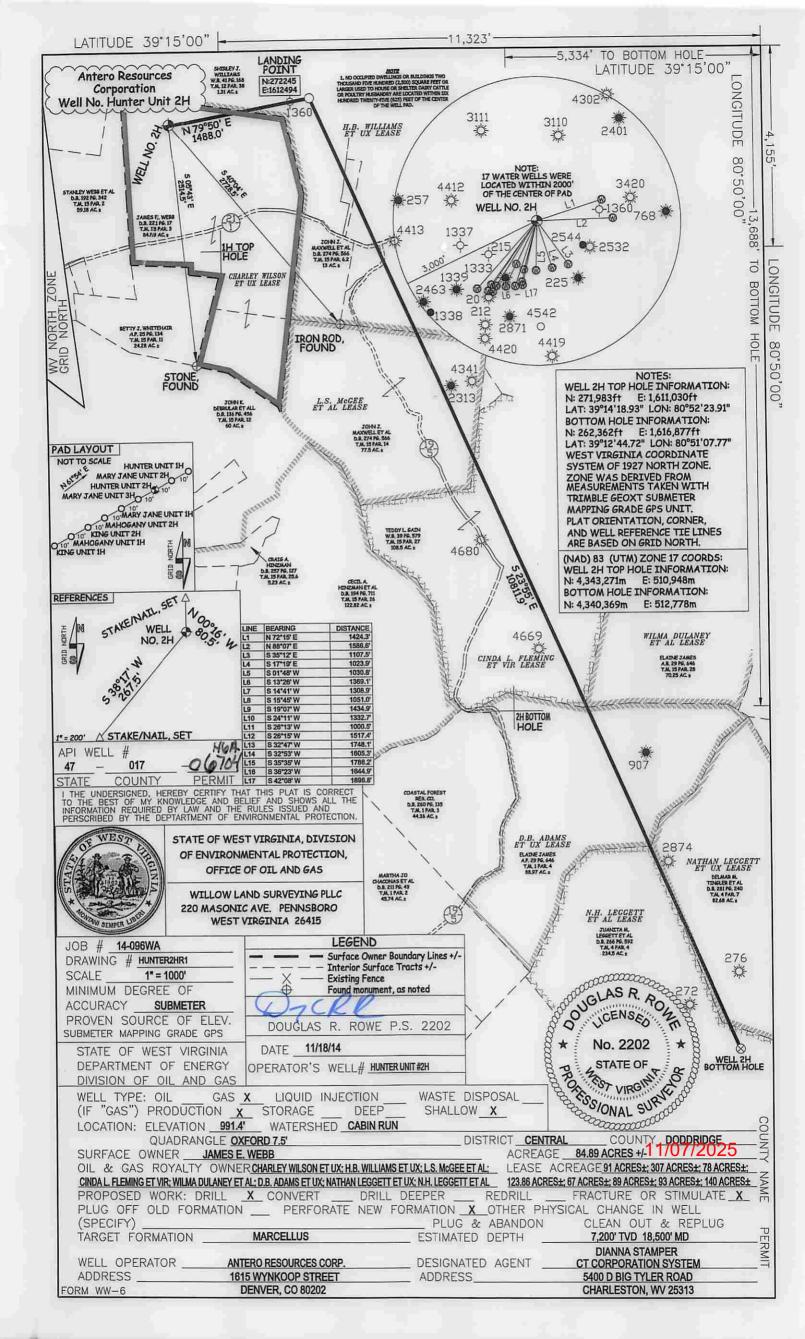
Viscosifier For Water-Based Muds

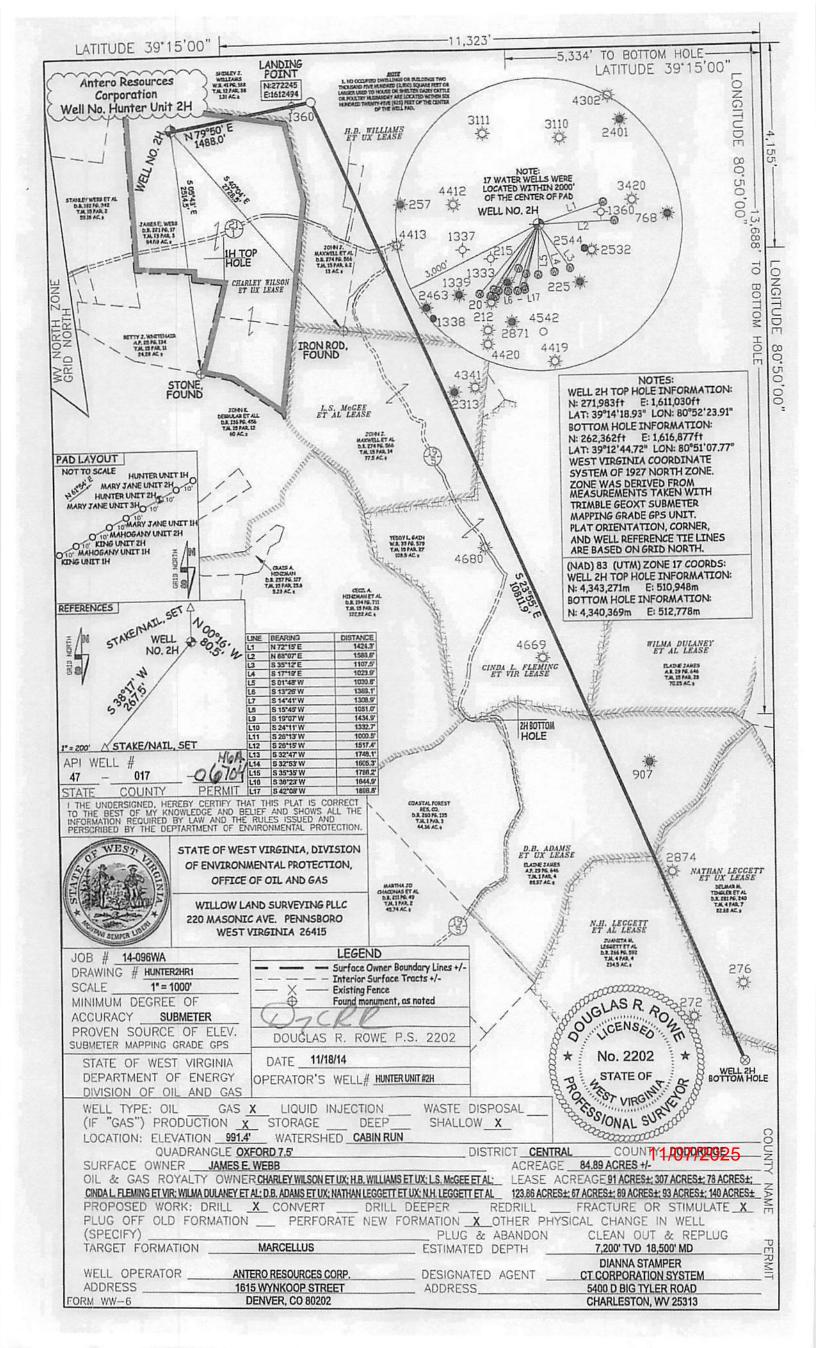
31. Milstarch

Viscositier For Water Based Muds RECEIVED
Starch – Fluid Loss Reducer For Water Based Muds RECEIVED

32. Mil-Lube







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
Charley Wilson, et ux Lease			
Charley Wilson, et ux	Luther G. Piggott	1/8	0060/0059
Luther G. Pigott	United Operating Company, Inc Lyle T. Coffman President	Assignment	0112/0156
United Operating Company, Inc. – Lyle T. Coffman President	Antero Resources Appalachian Corporation	Assignment	0281/0482
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
H.B. Williams, et ux Lease			
H.B. Williams, et ux	Freehold Oil & Gas	Flat Rate	0030/0088
Freehold Oil & Gas	Hope Natural Gas Company	Assignment	0025/0453
Hope Natural Gas Company	Consolidated Gas Supply Corporation	Confirmatory Deed	DB 0143/0345
Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment	0135/0583
Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Amended Certificate of Authority	AOI 0051/0795
CNG Transmission Corporation	Dominion Transmission, Inc.	Amended Certificate of Authority	AOI 0058/0362
Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC XVI	Assignment	0245/0001
CONSOL Energy Holdings, LLC XVI	CNX Gas Company, LLC	Affidavit of Name Changes & Merger	D8 0293/0252
CNX Gas Company, LLC	Antero Resources Appalachian Corporation	Notice of Agreement	0296/0715
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
L.S. McGee, et al Lease			
L.S. McGee, et al	Clarence Mutschelknaus	1/8	0105/0141
Clarence Mutschelknaus	Bluestone Energy Partners	Assignment RECEI	VED 0250/0168
Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corporation	Affidavit Regarding Oi Oil Merger	
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change $\mathbb{D} \mathbb{E} \mathbb{C}/\mathfrak{d} 8$	2014 Exhibit 1
<u>Cinda L. Fleming, et vir Lease</u>		WALDeep	a.a.b. a.f
Cinda Fleming	Antero Resources Appalachian Corporation	1/8+ WV Depar	
Antero Resources Appalachian Corporation	Antero Resources Corporation	NameChange On mente	l Protection 1
Wilma Dulaney, et al Lease			
Wilma Dulaney	Alton Skinner	1/8	0111/0374
Alton Skinner	Chase Petroleum, Inc., et al	Assignment	0119/0189
Chase Petroleum, Inc., et al	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	0257/0062

^{*}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

Hunter Unit 2H

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
D.B. Adams, et ux Lease			
D.B. Adams, et ux & Orla J. Adams	Warren R. Haught	1/8	0104/0779
Warren R. Haught	Rainbow 1, 2 and 3, 1979	Assignment	0113/0262
Rainbow 1, 2, and 3, 1979	Mountain V. Oil and Gas, Inc.	Assignment	DB 0215/0164
Mountain V Oil and Gas, Inc.	Arcadia Holdings, Inc.	Assignment	0185/0366
Arcadia Holdings, Inc.	Mountain V. Oil & Gas, Inc.	Assignment	0187/0430
Mountain V. Oil and Gas, Inc.	Robert L. Matthey, Jr. & HMS Resources, Inc.	Assignment	0215/0388
Robert L. Matthey, Jr. & HMS Resources, Inc.	Antero Resources Appalachian Corporation	*Partial Assignment	0279/0551
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Nathan Leggett, et al Lease			
N.H. Leggett & Elma Mae Leggett	Alton Skinner	1/8	0118/0321
Alton Skinner	Chase Petroleum, Inc.	Assignment	0123/0277
Chase Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment	0259/0709
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

RECEIVED
Office of Oil and Gas

DEC 0 8 2014

WV Department of Environmental Protection

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
N.H. Leggett, et al Lease				2000 Martin 2000 Dec
	N.H. Leggett & Elma Mae Leggett	Alton Skinner	1/8	0118/0321
	Alton Skinner	Chase Petroleum, Inc.	Assignment	0123/0277
	Chase Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment	0259/0709
	Antero Resources Appalachian Corporation	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 Resource	eş Corp	poration Environmen	Dartment of
By:	Kevin Kilstrom	lu	leuther	* Totection
Its:	VP of Production			

RECEIVED

FORM WW-6A1 EXHIBIT 1

FILED

Natalic B. Tennant Secretary of State 1900 Kanawha Bivd B Bldg 1, Suite 157-K Charleston, WV 25305

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



APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

IN THE OFFICE OF Corporations Division ECRETARY OF STATE Fax: (304)558-8000

Website: www.wysos.com

B-mail: business@wysos.com

Penney Barker, Manager

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

**** 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	_			
	Date Certificate of Authority was issued in West Virginia:	6/25/2008	<u></u>			
	Corporate name has been changed to:	Antero Resources Corporation				
•	(Attach one Certified Copy of Name Change as filed in home State of incorporation.)		•			
	Name the corporation elects to use in WV:	Antero Resources Corporation			127	:
	(due to home state name not being available)					-
	Other amendments:	per en all villander en			J	
	(attach additional pages if necessary)		•			
			-			
			-			20 4
	:					
	the filing, listing a contact person and phone nun document.)		54			1
	Alvyn A. Schopp	(303) 357-7310				
	Contact Name	Phone Number			2	1
	Signature information (See below *Important A	Legal Notice Regarding Signature):				
	Print Name of Signer: Abyn A. Schopp	Title/Capacity: Authorized Person				
	Al Alama	· 1	RE	CF	leza	
	Signature: 44574 OCHOPS	Date: June 10, 2013	e of	Oil	VE	-L)
		4 and even contractive contrac		OII	di	ia G
þ	person who signs a document he or she knows is false in any e secretary of state for filing is guilty of a misdemesner and,	ris Code <u>5311)-1-129</u> . Pensity for signing false document. y material respect and knows that the document is to be delivered upon conviction thereof, shall be fined not more than one	PEC (8 (2014	1
1	rand dollars or confined in the county or regional jail not mo		Зера	irin	300	
	CF-4 I stated by the Office	of the Secretary of State - Revised 4/1	nent	91. 91. F	ier	It of
	asset by the control	A remarkably at outs. Kultist 4/17		11	101	ectio
						1

W1411 - 0416/2011 Walters Kkmyr Odline

WW-60 (7-01)DATE: March 12 RECEIVED , 20 15 Office of Oil and Gas OPERATOR'S WELL NO. Hunter Unit 2H MAR 2 4 2015 017 API NO: 47-State County Permit No. WV Department of **Environmental Protection** STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION AFFIDAVIT State of Colorado County of Denver Thomas Kuhn (the designated owner or operator, or authorized representative thereof), after being duly sworn, do declare that the undersigned is authorized by the owner of the working interest in the well permit application to which this affidavit is attached to state that $(\underline{he}, \underline{she}, or \underline{it})$ shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid or set aside for the owner of the oil or gas in place, or all such oil or gas to be extracted, produced, or marketed from the well. West Virginia code 22-6-8(e). Signed: Taken, subscribed and sworn to before me this 2 day of

My Commission expires: TW/y 21.2018

KARA QUACKENBUSH
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20144028297
MY COMMISSION EXPIRES JULY 21, 2018

Kara Oulukumbuh

Notary Public

DATE: December 4 , 20 14

OPERATOR'S
WELL NO. Hunter Unit 2H

API NO: 47- O17
State County Permit No.

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

AFFIDAVIT

State of Colorado		
County of Denver		
declare that the working interest affidavit is attact to the owner of the of the total amout owner of the works so extracted, proto be paid or set or all such oil from the well. We	(the designate esentative thereof), after undersigned is authorized in the well permit applied hed to state that (he, she he oil and gas in place not ant paid to or received has interest at the wellhed duced, or marketed before aside for the owner of the or gas to be extracted, particularly code 22-6-8(e)	by the owner of the cation to which this , or <u>it</u>) shall tender less than one-eighth or allowed to the ad for the oil or gas deducting the amount oil or gas in place,
Signed:	jorg	
Taken, subscr	ibed and sworn to before me	e this H day of
	Nota	Try Public Of Oil and Gas
My Commission expi	res: <u>JUly</u> 21,2018	DEC 0 8 201A
	J	WV Department of
		KARA QUACKENBUSH COLORADO NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20144028297 MY COMMISSION EXPIRES 101722025



December 4, 2014

Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

West Virginia Department of Environmental Protection Chief, Office of Oil and Gas Attn: Mr. James Martin 601 57th Street SE Charleston, WV 25304

RE: Hunter Unit 2H

Quadrangle: Oxford 7.5'

Doddridge County/Central District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Hunter Unit 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Hunter Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Spencer Booth Senior Landman

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Doddridge Independent					
Public Notice Date: 9/12/2014 & 9/1	9/2014				
The following applicant intends to surface excluding pipelines, gathe any thirty day period.					
Applicant: Antero Resources Corporat	ion		Well Nun	nber: Hunter Unit 2H	
Address: 1615 Wynkoop St. Denver, Co	O 80202				
Business Conducted: Natural g	as production	,			
Location –					
State: West Virginia			County:	Doddridge	
District: Central			Quadrangle:	Oxford 7.5'	
UTM Coordinate NAD8	3 Northing:	4,343,271m		100	
UTM coordinate NAD83 Watershed: Cabin Run	Easting:	510,948m			

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit; http://tagis.dep.wv.gov/convert/llutm conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.oog@wv.gov.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

Date of Notice Certification: 12/03/2014

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

API No. 47- 017

			Operator's	Well No. Hunt	er Unit 2H
			Well Pad N	Vame:James V	Vebb
Notice has l					
	ne provisions in West Virginia Code	§ 22-6A, the Operator has pro-	vided the rec	quired parties v	vith the Notice Forms listed
	tract of land as follows:		E 4	540.040···	
State:	West Virginia	UTM NAD 83	Easting:	510,948m	
County:	Doddridge		Northing:	4,343,271m	
District:	Central	Public Road Acc		CR 21/1	
Quadrangle:	Oxford 7.5'	Generally used fa	arm name:	Webb, James E.	
Watershed:	Cabin Run				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface described and (c), surface owner notice of entry to so of subsection (b), section sixteen (e) § 22-6A-11(b), the applicant shall have been completed by the applica	shall contain the following infolions (1), (2) a section sixteen of this article; (is urvey pursuant to subsection for this article were waived in tender proof of and certify to the section of the sect	ormation: (1- and (4), sub- ii) that the re (a), section writing by	4) A certification (b), see quirement was ten of this artion the surface over the contract of the surface over the surface ov	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the O rator has properly served the require		his Notice C	ertification	OOG OFFICE USE
*PLEASE CHI	ECK ALL THAT APPLY				ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUII SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or ☐ NO PLAT SURV	EY WAS C	ONDUCTED	☑ RECEIVED
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIINOTICE OF ENTRY FOR WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
:		☐ WRITTEN WAIVER (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PUE	BLIC NOTICE				A RECEIVED
■ 6. NO	TICE OF APPLICATION				REGEIVED 3 8 2014
·					0.00

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Kevin Kilstrom , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

 Well Operator:
 Antero Resources Corporation
 Address:
 1615 Wynkoop Street

 By:
 Kevin Kilstrom
 Denver, CO 80202

 Its:
 VP of Production
 Facsimile:
 303-357-7315

 Telephone:
 303-357-7310
 Email:
 asteele@anteroresources.com

NOTARY SEAL

KARA QUACKENBUSH

NOTARY PUBLIC

STATE OF COLORADO

NOTARY ID 20144028297

MY COMMISSION EXPIRES JULY 21, 2018

Subscribed and sworn before me this 3 day of December 2014

KOND OWNER MAN DUST Notary Public

My Commission Expires JULY 21, 2018

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas

DEC 0 8 2014

WV Department of Environmental Protection WW-6A (9-13)

API NO. 47- 017 OPERATOR WELL NO. Hunter Unit 2H
Well Pad Name: James Webb

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 12/4/2014 Date Permit Application Filed: 12/4/2014 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A ☐ PERSONAL SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: RECEIVED ☑ SURFACE OWNER(s) ☐ COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY Of Oil and Gas Name: James E. Webb Address: 813 Cabin Run Rd Address: West Union, WV 26456 Name: Joseph E. Webb ☐ COAL OPERATOR Address: 30 Red Oak Dr. Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: ______ vvv Department of West Union, WV 26456 SURFACE OWNER(s) (Road and/or Other Disturbance) Name: WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE Address: Name: PLEASE SEE ATTACHMENT Name: Address: Address: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

WW-6A
(8-13)

API NO. 47- 017 - OPERATOR WELL NO. Hunter Unit 2H

Well Pad Name: James Webb

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47-017

OPERATOR WELL NO. Hunter Unit 2H

Well Pad Name: James Webb

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the sociation or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

May Durantogat of Eligin, and which is recognized.

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13) API NO. 47- 017 - OPERATOR WELL NO. Hunter Unit 2H

Well Pad Name: James Webb

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.



WW-6A (8-13)

API NO. 47-017 OPERATOR WELL NO. Hunter Unit 2H Well Pad Name: James Webb

Notice is hereby given by:

Email: asteele@anteroresources.com

Well Operator: Antero Resources Corporati Telephone: (303) 357-7310

Address: 1615 Wynkoop Street Denver, CO 80202

Facsimile: 303-357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

KARA QUACKENBUSH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20144028297 MY COMMISSION EXPIRES JULY 21, 2018 Subscribed and sworn before me this 4 day of December 2014 Notary Public My Commission Expires

WV Department of

WW-6A Notice of Application Attachment:

Water Source Owners:

Owner: James E. Webb (6 water sources)

Address: 813 Cabin Run Rd.

West Union, WV 26456

Owner: Shirley Jean Williams Address: 296 Cabin Run Rd.

West Union, WV 26456

Owner: Brian M. Webb (2 sources)

Address: RR 1 Box 207

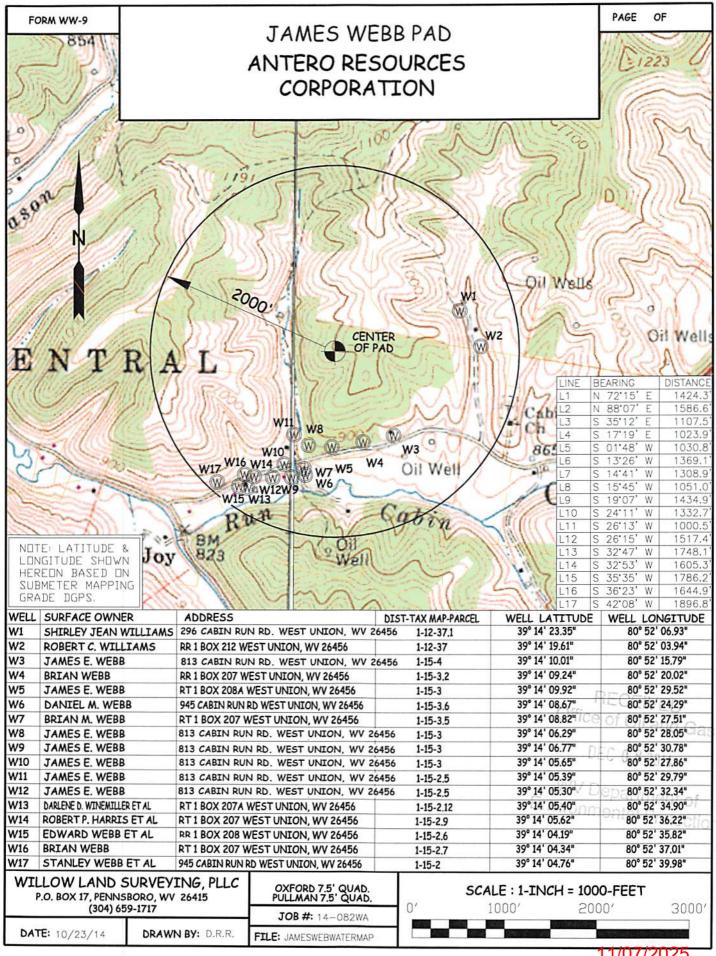
West Union, WV 26456

Owner: Daniel M. Webb Address: 945 Cabin Run Rd.

West Union, WV 26456

(Note: On attached water well map 7 water sources are identified but they are located greater than 1500' from the subject well pad location)

RECEIVED
Office of Oil and Gas
DEC 0 8 2014
WV Department of
Environmental Protection



Operator Well No.	Hunter Unit 2H
Multiple Wells on the I	ames Wehh Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry						
Date of Notice: 3/26/2014 Date of Planned Entry: 4/5/2014						
Delivery method p	ursuant to West Virginia Code	e § 22-6A-10a				
☐ PERSONAL	☐ REGISTERED	■ METHOD OF DELIVERY THAT RE	EQUIRES A			
SERVICE	MAIL		-			
on to the surface tra but no more than fo beneath such tract the owner of minerals to and Sediment Contra Secretary, which state enable the surface of	ursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry in to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days ut no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams eneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any with such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the ecretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to mable the surface owner to obtain copies from the secretary.					
Notice is hereby pr	rovided to:					
SURFACE OV	VNER(s)	☐ COAL OWNER OR LE				
Name:James E. We		Name: NO DECLARATIONS ON RE				
Address: 813 Cabin Ru		Address:				
West Union, WV 264	1877					
Name: Joseph Edwar		ADJED I OVER (
Address: 30 Red Oak I West Union, WV 264		■ MINERAL OWNER(s)	1000 Margar Patric - 2000 Margar Patrician			
	56	Name: Robert L. Riley	Cinda L. Fleming			
		Address: 248 Late Ave	4501 Hudson St.			
Address.	100	Bridgeport, WV 26330 *please attach additional forms if ne	Parkersburg, WV 26104			
		prease attach additional forms if he	cessary			
a plat survey on the		ice is hereby given that the undersigned wel Approx. Latitude & Longitude:	l operator is planning entry to conduct 39.238599, -80.873231 (NAD 83)			
County: Doddri	idge	Public Road Access:	CR 21/1			
District: Centra	d .	Watershed:	North Fork Hughes River			
Quadrangle: Oxford		Generally used farm name:	Webb, Joseph E.	_		
may be obtained fro Charleston, WV 25	om the Secretary, at the WV Dep 304 (304-926-0450). Copies of	fanual and the statutes and rules related to o partment of Environmental Protection headquest of such documents or additional information revigov/oil-and-gas/pages/default.aspx.	uarters, located at 601 57th Street, SE,			
Notice is hereby	given by:					
	ero Resources Corporation	Address: 1625 17th Street	-n/ED			
	3) 357- 7310	Denver, CO 80202	BECEIVEL Gas			
Email: aste	eele@anteroresources.com	Facsimile: (303) 357-7315	of Oil and Game			
			Ollico a.	_		
Oil and Gas Priv	acy Notice:		c 0.8 2014			

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	Time Re	equirement: notice	shall be provided Date Permit				application.			
Delive	ry metho	d pursuant to Wes	st Virginia Code §	§ 22-6A-16(c))					
		ED MAIL I RECEIPT REQUE	STED	HAND DELIVER	RY					
return the pla require drilling damag	receipt re anned ope ed to be p g of a hor es to the s e notices	Va. Code § 22-6A quested or hand deleration. The notice rovided by subsectifiziontal well; and (surface affected by required by this sec	ivery, give the sur e required by this on (b), section ten 3) A proposed sur oil and gas operati	rface owner was subsection slow of this article rface use and ons to the ext	whose land hall include to a surfa- compension the da	will be used for de: (1) A copy ace owner whos ation agreemen mages are comp	r the drilling of this code e land will be t containing pensable und	of a horizon section; (2) e used in con an offer of cer er article six-	tal well notice of The information junction with the compensation for b of this chapter	of n e or r.
(at the Name:	address l				Name:	Joseph E. Webb			-	
Addies	-	on, WV 26456			Address	West Union, WV 264	456		±0	
operati State: County Distric	ion on the	st Virginia Code § 2 e surface owner's la Vest Virginia Doddridge Central		of drilling a UT Pub	horizonta M NAD 8 dic Road	I well on the tra Easting: Northing: Access:	ot of land as 510,948m 4,343,271m CR 21/1	follows:		
Quadra Waters		Oxford 7.5' abin Run		Ger	nerally use	ed farm name:	Webb, James E			_
Pursua to be p horizon surface inform headqu	nt to Wes provided ntal well; affected ation rela	all Include: st Virginia Code § 2 by W. Va. Code and (3) A proposed by oil and gas operated to horizontal docated at 601 57 th	§ 22-6A-10(b) to a d surface use and or erations to the exterilling may be ob	surface own compensation ent the dama tained from t	ner whose agreement ges are conthe Secret	land will be un nt containing an empensable und ary, at the WV	sed in conju offer of con er article six Department	nction with npensation for the of this che of Environn	the drilling of or damages to the apter. Additional mental Protection	a e al n
Well C	perator:	Antoro Bosourosa Como	nation	Δ	ddress:	4045 WL Ob				
Teleph	•	Antero Resources Corpo (303) 357-7310	audi	^	adicss.	Denver, CO 80202	st.	R	ECEIVED	Co
Email:		asteele@anteroresources	.com	F	acsimile:	303-357-7315		Office	of Oil and	
	d Gas Pr	ivacy Notice:	77.5	£					DEC 0 8 2014	

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Earl Ray Tomblin Charleston, West Virginia 25305-0430 • (304) 558-3505

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

November 24, 2014

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the James Webb Pad, Doddridge County

Hunter Unit 2H Well site

Dear Mr. Martin,

Governor

This well site will be accessed from a DOH permit #04-2013-0201 which has been issued to Antero Resources Corporation for access to the State Road for a well site located off of Doddridge County Route 24/1 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Tany K. Clayton

Central Office O&G Coordinator

Cc:

Ashlie Steele

Antero Resources Corporation

CH, OM, D-4

File

11/07/2025

List of Anticipated Additives Used for Fracturing or Stimulating Well

Additives	Chemical Abstract Service Number (CAS #)
Fresh Water	7732-18-5
2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
Ammonium Persulfate	7727-54-0
Anionic copolymer	proprietary
Anionic polymer	proprietary
BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
Cellulase enzyme	(Proprietary)
Demulsifier Base	(Proprietary)
Ethoxylated alcohol blend	Mixture
Ethoxylated Nonylphenol	68412-54-4
Ethoxylated oleylamine	26635-93-8
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
guar gum	9000-30-0
Hydrogen Chloride	7647-01-0
Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
Isopropyl alcohol	67-63-0
liquid, 2,2-dibromo-3-nitrilopropionamide	10222-01-2
Microparticle	proprietary
Petroleum Distillates (BTEX Below Detect)	64742-47-8
Polyacrylamide	57-55-6
Propargyl Alcohol	107-19-7
Propylene Glycol	57-55-6
Quartz	14808-60-7
Sillica, crystalline quartz	7631-86-9
Sodium Chloride	7647-14-5
Sodium Hydroxide	1310-73-2
Sugar	57-50-1
Surfactant	68439-51-0
Suspending agent (solid)	14808-60-7
Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7



JAMES WEBB WELL PAD SITE DESIGN & CONSTRUCTION PLAN. **EROSION & SEDIMENT CONTROL PLANS**

CENTRAL DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA CABIN RUN WATERSHED



Regigers to Joseph F. World: TM 15.3 Total Affected Area

NAVDBS

WVDOH COUNTY ROAD MAP



MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) IT'S THE LAW!!

APPROVED WVDEP OOG 54 × 2/24/2015

SHEET INDEX

OI - COVER SHEET

DZ - CONSTRUCTION AND EAS CONTROL NOTES

04 - OVERALL PLAN SHIERT INDEX & VOLUMES

DS - EX ACCESS ROAD PLAN

D7 - EX ACCESS ROAD PROPILES

09-10 - WELL PAD SECTIONS

11-15 - CONSTRUCTION DETAILS

15 - EX ACCESS BOAD RECLAMATION PLAN

17 - WELL PAD DECLAMATION PLAN

IAMES WERR LIMITS OF DISTURBANCE AREA (AC)

S

ENGINEERING

Antero

THIS DOCUMENT WAS PREPARED FOR ANTERO RESOURCES CORPORATION

JAMES WEBB

SCALE AS SHOWN SHEET 1 OF 18

USGS 7.5 PULLMAN & OXFORD QUAD MAPS

Electronic Version of These Plans May Be Viewed at: Q:\OIL GAS\SAY FILES\REVIEWS

WEST VIRGINIA COUNTY MAP

LOCATION COORDINATES
EX ACCESS ROAD "A" ENTRANCE
LATITUDE 39 236221 LONGITUDE
N 4342999.09 E 511345.35

CENTROID OF WILL PAD

FLOODPLAIN NOTE

ENVIRONMENTAL NOTES

GEOTECHNICAL NOTES

PROJECT CONTACTS

PHONE: (304) 842-4100 FAX: (304) 842-4100

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHITE CARS BLVD. BRIDGEPORT, WV 25330

(304) 719-6449

RICHARD LYLES - LAND AGENT CELL: (770) 378-6833

ELJ WAGONER - ENVIRONMENTAL ENGINEER OFFICE: (304) 842-4068 CELL: (304) 476-9770

JOHN KAWCAK - OPERATIONS SUPERINTENDENT (817) 366-1553

AARON KUNZLER - CONSTRUCTION SUPERVISOR CELL (405) 227-8344

ANTHONY SMITH - FIELD ENGINEER DFFICE: (304) 842-4208 CELL (304) 673-6198

CHARLES E. COMPTON, III - SURVEYING COORDINATOR

EX ACCESS ROAD "B" ENTRANCE LATITUDE: 30.236204 LONGITUDE -80.806132 (NAD 83) N 4343007.07 E 511294.30 (UTM ZONE 17 ME

CENTROLD OF WELL PAD

LATITUDE: 39.238599 LONGITUDE: -80.573231 (NAD 83)

N 4342382.54 E 5.0940.21 (UTM ZONE 17 METERS)

GENERAL DESCRIPTION THE ACCESS BOARS A WELL PAD NAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF NEWFOLDS SHARE AS WELLS.

MISS LITHLITY STATEMENT ANTENDED TO STATE AND THE LOCATING OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES FROM TO THIS FROMET DESIGN, TICKET #1200000001. IN ADDITION, MICH UTILITY WILL BE CONTACTED FROM TO ANY ON-TIE AUTHORITY FOR THIS FROMET.

NETLAND DELINEATIONS FIRE PERFORMED NOTHERES DECEMBER, 2012, A SEPTEMBER, 2013 BY GAI CONSIGNATION, NO. TO RETURN THE SITE FOR MATERIA AND VITALABLE THAT ME AND FUNDATION THE REGULATION FUNCTION OF THE U.S. ARMY COUPS OF DEGREERS (URMACI) AND/OR THE WIST THE REGULATION FUNDATION OF THE SEPTEMBER BY DESCRIPTION OF THE SEPTEMBER BY GAI CONSULTANT, INC. AND QUARAMETER THE RESULTS OF THE FUELD DELINGATION. THE MAP DOES NOT, IN ANY WAY, REFERENCE A QUIDOCOTTORIAL DETERMINATION OF THE LAGRAD LIMITS OF VARIES AND WITHOUT SEPTEMBER BY THE UNDESCRIPTION OF THE PURPOSE OF THE SEPTEMBER AND SECURITY OF THE PURPOSE OF THE SEPTEMBER OF THE U.S. INCLUDING WITHARD FILLS AND STREAM CROSSINGS.

A STRENDFACE INVESTIGATION OF THE PROPOSED STY VAR PERFORMED BY GA. CONTY BROWNDEDDER, PALL ON ADMINIST ON, 10, AL 5, B. 17, 2013. THE EFFORT PERFARED BY GA. COMY ENGINEERING, PLLC, BATED JANUARY SS, 2013, REFLECT THE RESULTS OF THE SUBSHIPPACE INVESTIGATION. THE INFORMATION AND RECOGNERATIONS CONTINUED THE SUBSHIPPACE INVESTIGATION SEPORT BY GA. COVEY ENGINEERING, PLACE FOR ADDITIONAL DEPORATION, AS INSECT.

DEADNIANGEMENT . DVIEGO. THERE ARE NO PERDONAL STREAMS, WETLANDS, LAKES, OR RESERVORS WITHIN 100 FERT OF THE WELL PAD AND LOD. THERE IS A POND ADJACENT TO THE EX. ACCESS BOADS THAT WILL REMAIN UNDESTRUBED.

3 THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.

THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.

6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 BQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 PERF OF THE CENTER OF THE WHIL PAD.

THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND

POSEMED NOVEMBER-DECEMBER, 2012, A SEPTEMBER, 2013 BY GAI

ENGINEER/SURVEYOR: NAVITUS ENGINEERING, INC.

ENVIRONMENTAL

CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER OPPICE (888) 682-4185 CELL (540) 696-6747

THE SITE IS LOCATED IN PLOCODENCE TO PER FEMA PLOCO MAPS #54017C0225C & #54017C0226C



(NOT TO SCALE)

Requires that you call two ousiness days before you dig in the state of West Virginia.

GAI CONSULTANTS, INC. 1ASON A. COOK - SENIOR ENVIRONMENTAL SPECIALIST OFFICE: (304) 936-8100 CELL (303) 709-3306

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAMS ATLANED HARRED HARRED
REST VIRGINAL CODE OF STATE RULES, BUYEN
OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL
AND GAS CESS 36-6.

W North UTW (METERS) | NAD 83 Lat & Lon Unit 1H E 19-10076-67 (E 15795-35 SB É 51003-2 17 M 2779506-89 (E 15795-46 41 É 51003-83 M 277956-19 (E 15795-46 41 É 51003-83 M 277956-19 (E 15795-56 22) É 15003-83 M 27956-19 (E 15795-56 22) É 150037-46 M 27956-19 (M 15795-66 23) (M 154309-27 M 27956-19 (M 15795-66 24) (M 154309-27 M 15795-19 (M 15795-66 24) (M 15795-LAT 39-14-19-0343 Mahogarry Unit 2H N 271973 63 N 272006 20 N 4543367 73 E 1611011 96 E 1679670 67 E 510942 62 ONG 4049-714216 Unit 3H E 1911/2017 PS (E 15/1997) BB (E 15/1995) AB (E 15/ Unit 2H Mary Jane Unit 2H LAT 39-14-19 2738 LONG -60-52-23 1981 LAT 36-14-19 3217

Visit Pad Elevation 991.4

API#1706699 API#1706700 AP##1706701 API#1706702 API#1706703 API#1706704 AP##1706705 API#1706708

WELL

