

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

June 29, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706733, 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

Chiaf

Operator's Well No: COOL UNIT 1H

Farm Name: WEBB, STANLEY

API Well Number: 47-1706733

Permit Type: Horizontal 6A Well

Date Issued: 06/29/2015

API Number: 1706733

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.

WW-6B (9/13)

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

l) Well Opera	tor: Antero	Resources C	orporation	494488557	017 -Doddridge	Central	Pullman 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's '	Well Numbe	er: Cool Unit	1H	Well P	ad Name: Stan	ley Pad	
3) Farm Name	/Surface Ow	ner: Webb,	Stanley, e	et al. Public Ro	oad Access: CR	21/1	
4) Elevation, c	urrent groun	nd: ~1108	El	levation, proposed	d post-construct	ion: 1095'	
5) Well Type	(a) Gas	_	_ Oil	Un	derground Stora	ge	
	Other						
	(b)If Gas	Shallow	_=_	Deep			8.6.
		Horizontal					1/C
5) Existing Pac					_		5.6
				ipated Thickness			:
Marcellus Sh	ale: 7400' TV	D, Anticipated	Thickness-	60 feet, Associate	d Pressure- 3100	#	1
) Proposed To)0' TVD				
) Formation a	t Total Verti	cal Depth:	Marcellus S	Shale			Nichola Company
0) Proposed T	otal Measur	ed Depth:	19000' MD				
1) Proposed H	Iorizontal Le	eg Length:	10105'				
2) Approxima	te Fresh Wa	iter Strata De	pths:	168', 322', 433'			
3) Method to	Determine F	resh Water I	Depths:	Offset well records. D	epths have been a	djusted accord	ling to surface elevations
4) Approxima			660', 1083',			·	
5) Approxima	te Coal Sear	m Depths:	170', 877'		***************************************		X***
6) Approxima	te Depth to	Possible Voi	d (coal mi	ne, karst, other):	None anticipated	I	
7) Does Propo	sed well loc	cation contain	n coal sear	ns			
irectly overlyi	ng or adjace	ent to an activ	ve mine?	Yes	No	√	
(a) If Yes, pro	vide Mine I	nfo: Name	ž.				
		Depth	ı:				
		Seam:					
			-			Receiv	ed —
		Owne	r:			ce of Oil	

MAY 07 2015

WW-6B (9/13)

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#	485' *see note #19	485'	CTS, 674 Cu. Ft
Coal	9-5/8"	New	J-55	36#	2450'	2450'	CTS, 998 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	19,000'	19,000'	4,832 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7,100'	
Liners						7.17.55	

DCN 2015

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	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 & Gas
MAY 0 7 2015

Page 2 of 3

WW-6B (9/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.
*Antero will be air drilling the fresh water string which makes it difficult to determine when freshwater is encountered, therefore we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."
Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 43.30 Acres
22) Area to be disturbed for well pad only, less access road (acres): 6.37 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 lace bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water. Office of Oil & Gas
*Note: Attach additional sheets as needed.

Page 3 of 3

WW-9 (2/15)

API Number	17 - 017	-	
Opera	tor's Well No	. Cool Unit 1H	

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

OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name_ Antero Resources Corporation OP Code 494488557
Watershed (HUC 10) North Fork Hughes River Quadrangle Pullman 7.5'
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 V
If so, please describe anticipated pit waste: No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and hauled off site.)
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 synthetic liner be used in the pit? Yes No V If so, what ml.? N/A Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 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
Will closed loop system be used? If so, describe: Yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc
-If oil based, what type? Synthetic, petroleum, etc. N/A
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
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? Meadowfill Landfill (Permit #SWF-1032-98)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
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
Company Official (Typed Name) Cole Kilstrom
Company Official Title Environmental & Regulatory Manager
Subscribed and sworn before me this 15 day of APNI , 20 15 Notary Public Office of Dil & Sac
My commission expires July 21, 2018 MAY 0 72015

Form WW-9

Antero Resources	Corporation	Operator's We	Il No. Cool Unit 1H
Proposed Revegetation Treat	tment: Acres Disturbed 43.30 A	Acres Prevegetation pH	
Lime 2-4	Tons/acre or to correct to pl	H 6.5	
Fertilizer type Hay o	or straw or Wood Fiber (will be used	where needed)	
Fertilizer amount 5	00	lbs/acre	
Mulch 2-3	Tons	/acre	
Access Road J. (23.36) + Access Road Spoil Area 3 (1.23) + Topsoil Spoil Are	2 (1.12) + James Webb Access Road (2.37) + a 4 (1.40) + Topsoil Spoil Pile 4 (0.93) + Diver	Water Containment Pad (2.94) + Topsoil Spoil Pile 1 (0. sion Ditches (0.71) + Material Spoil Pile 1 (0.93) + Well	76) + Topsoil Spoil Pile 2 (1.18) + To Pad (6.37) = 43,30 Acres
Te	mporary	Permane	ent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	45	Tall Fescue	45
Perennial Rye Gra	ss 20	Perennial Rye Grass	20
*or type of grass seed red	quested by surface owner	*or type of grass seed request	ed by surface owner
Plan Approved by: De Comments: Proses	ed of Molch 1.	nstall and mainta	in 15+3
Field Reviewed?	ins nector	Date: 5-6-2015	
) No	Receive Office of Oil

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

11. LD-9

Polyether Polyol – Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM



APR 24 2015

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

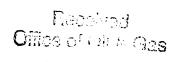
Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant





Well Site Safety Plan Antero Resources

Well Name: Burgess Unit 1H, Burgess Unit 2H, Cool Unit 1H,

Cool Unit 2H, Hattie Unit 1H, Hattie Unit 2H,

Hattie Unit 3H

Pad Location: STANLEY PAD

Doddridge County/ Central District

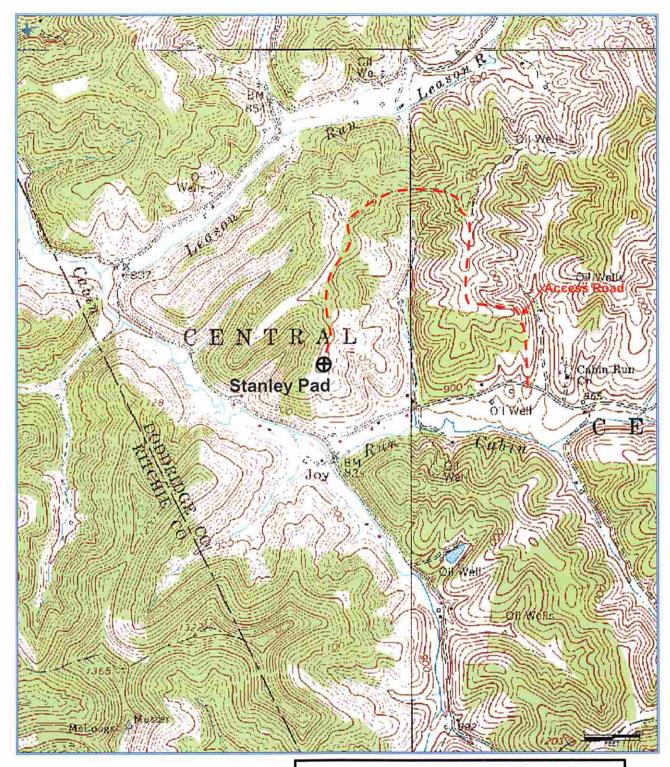
GPS Coordinates: Lat 39°14′12.9156″/ Long -80°52′46.3542″ (NAD83)

Driving Directions:

From Greenwood: Head southeast on Co Route 50/30/Old U.S. 50 W/Sunnyside Rd for 3.4 miles. Turn right onto Co Route 21/Oxford Rd and continue for 2 miles. Turn right onto Co 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

OC W Received 6-6-2016 ffice of Oil & Gas MAY 07 2015



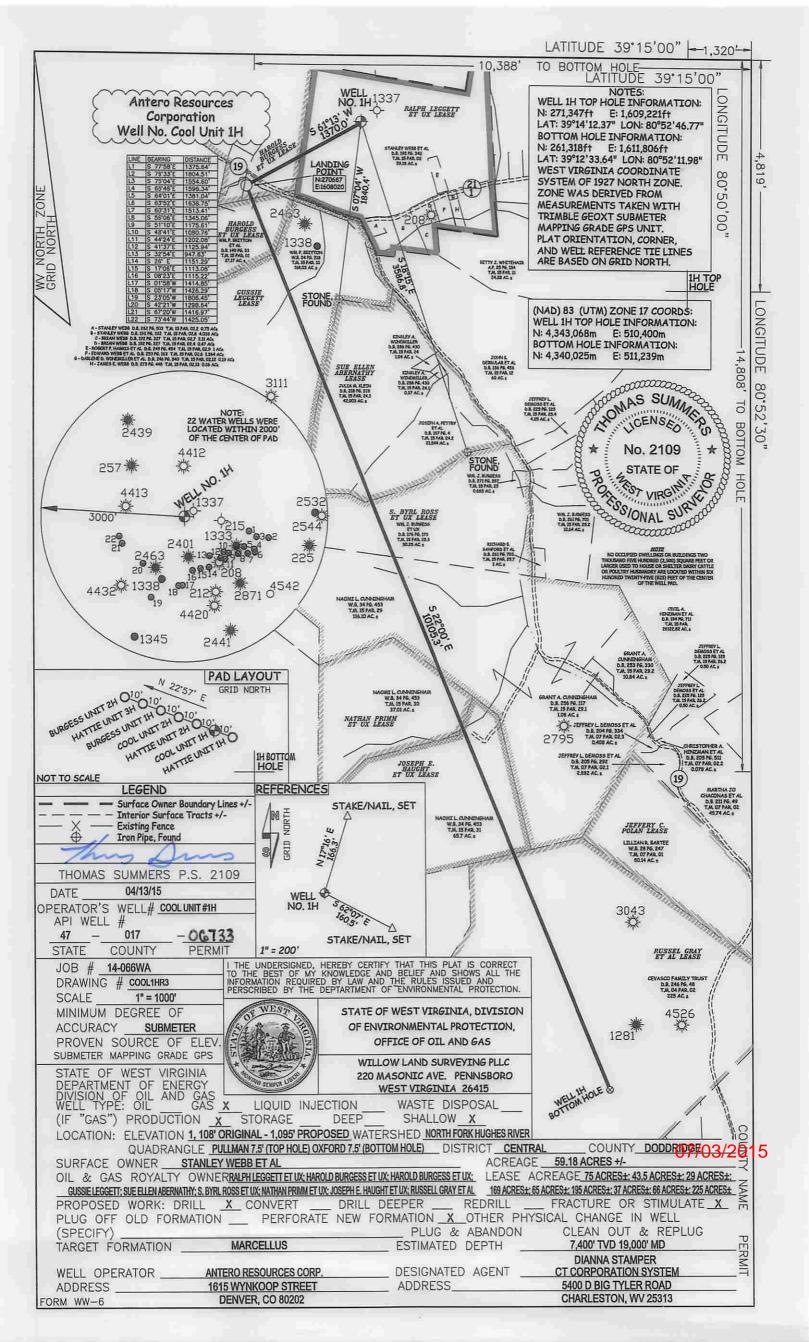
Antero Resources Corporation

Appalachian Basin
Cool Unit 1H
Doddridge County

Quadrangle: Pullman

Watershed: North Fork Hughes River

District: West Union Date: 3-12-2015



Operator's Well Number

Cool Unit 1H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Ralph Leggett, et ux Lease			
Ralph Leggett, et ux Harold B. Smith		1/8	0088/0228
Harold B. Smith	Reeves Lewenthal	Assignment	0088/0232
Reeves Lewenthal	Ray Resources Corporation	Assignment	0099/0332
Ray Resources Corporation	Bow Valley Petroleum, Inc.	Assignment	0115/0031
Bow Valley Petroleum, Inc.	G.W. Petroleum, Inc.	Name Change	Recital in 0166/0312
G.W. Petroleum, Inc.	Great Western Onshore, Inc.	Name Change	Recital in 0166/0312
Great Western Onshore, Inc.	Eastern American Energy Corporation	Assignment	0166/0312
Eastern American Energy Corporation	Targa Development, Inc.	Assignment	0219/0529
Targa Development, Inc.	Antero Resources Appalachian Corporation	Assignment	0257/0362
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Harold Burgess, et ux Lease			
Harold R. Burgess, et ux	Key Oil Company	1/8	0181/0267
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0256/0285
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Harold Burgess, et ux Lease			
Harold R. Burgess, et ux	Key Oil Company	1/8	0181/0269
Key Oil Company	Antero Resources Appalachian Corporation	Assignment	0256/0285
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Gussie Leggett Lease			
Gussie Leggett, a widow	Alton Skinner	1/8	0107/0480
Alton L. Skinner, II, et al, as co-administrators of the estate of Alton L. Skinner, deceased	Crystal Skinner, et al	Assignment	0169/0193
Crystal Skinner, et al	DC Petroleum, Inc., et al	Assignment	0170/0583
DC Petroleum, Inc., et al	Antero Resources Appalachian Corporation	Assignment	0257/0062
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Sue Ellen Abernathy Lease	Cì	fice of the second	
Sue Ellen Abernathy	Antero Resources Appalachian Corporation	Assignment	0256/0285
Antero Resources Appalachian Corporation	Antero Resources Corporation	APR 2.4 Name Change	Exhibit 1
S. Byrl Ross, et ux Lease			
S. Burl Ross & Elinor K. Ross	Alton Skinner	1/8	0114/0441
Alton L. Skinner, II, et al, as co-administrators of the estate of Alton L. Skinner, deceased	Crystal Skinner, et al	Assignment	0169/0193
Crystal Skinner, et al	DC Petroleum, Inc., et al	Assignment	0170/0583
DC Petroleum, Inc., et al	Antero Resources Appalachian Corporation	Assignment Name Change	0257/0062 Exhibit 1
Antero Resources Appalachian Corporation	chian Corporation Antero Resources Corporation		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.

Operator's Well Number

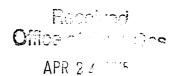
Cool Unit 1H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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- (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
Nathan Primm, et ux Lease			
Nathan R. Primm and Thelma Primm, his wife	C.A. Stricklin	1/8	0067/0190
C.A. Stricklin	Alton Skinner	Assignment	0118/0536
Alton L. Skinner, II, et al, as co-administrators of Crystal Skinner, et al the estate of Alton L. Skinner, deceased		Assignment	0169/0193
Crystal Skinner, et al	DC Petroleum, Inc., et al	Assignment	0170/0583
DC Petroleum, Inc. and Chase Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment	0257/0062
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Joseph E. Haught, et ux Lease			
Joseph E. Haught and Carolyn B. Haught	Alton Skinner	1/8	0112/0154
Alton L. Skinner, II, et al, as co-administrators of the estate of Alton L. Skinner, deceased	Crystal Skinner, et al	Assignment	0169/0193
Crystal Skinner, et al	DC Petroleum, Inc., et al	Assignment	0170/0583
DC Petroleum, Inc. & Chase Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment	0257/0062
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1



WW-6A	l
(5/13)	

Operator's \	Well No.	Cool Unit 1H
5.5		

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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- (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
Russell Gray, et al Lease				10000.050
	Russell H. Gray and Edith Gray, his wife, et ux	Alton Skinner	1/8	0121/0123
	Alton L. Skinner, II, et al, as co-administrators of the estate of Alton L. Skinner, deceased	Crystal Skinner, et al	Assignment	0169/0193
	Crystal Skinner, et al	DC Petroleum, Inc. , et al	Assignment	0170/0583
	DC Petroleum, Inc. and Chase Petroleum, Inc.	Antero Resources Appalachian Corporation	Assignment	0112/0664
	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

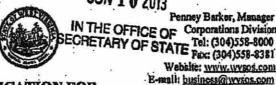
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Antero Resources Corporation	
By:	Kevin Kilstrom	
lts:	VP of Production	

Page 1 of

Natalie E. Tennant. Secretary of State 1900 Kanawha Bivd E 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



Penney Barker, Manager IN THE OFFICE OF Corporations Division SECRETARY OF STATE Fax: (304)558-8381
Website: www.wysos.com

AMENDED CERTIFICATE OF AUTHORITY.

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

**** 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:

4	· ·	
łт,	Name under which the corporation was authorized to transact business in WV:	Antero Resources Appalachian Corporation
2.	Date Certificate of Authority was issued in West Virginia:	6/25/2008
3.	Corporate name has been changed to:	Antero Resources Corporation
	(Attach one <u>Certified Copy of Name Change</u> as filed in home State of incorporation.)	9)
١.	Name the corporation elects to use in WV: (due to home state name not being available)	Antero Resources Corporation
	Other amendments: (attach additional pages if necessary)	
	3	· · · · · · · · · · · · · · · · · · ·
	1	* # 1550 15 15 15 15 15 15 15 15 15 15 15 15 15
	the filing, listing a contact person and phone num document.) Alvyn A. Schopp	(This is optional, however, if there is a problem with other may avoid having to return or reject the (303) 357-7310
	Contact Name	Transference access
	Contact Name	Phone Number
	Signature information (See below * <i>Important</i>	Phone Number Legal Notice Regarding Signature):
	,	Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person
	Signature information (See below *Important A Print Name of Signer: Abyn A. Schopp	Phone Number Legal Notice Regarding Signature):
iny th	Signature information (See below *Innortant and Print Name of Signer: Abyn A. Schopp Signature: Abyn	Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person Date: June 10, 2013 This Code \$\frac{831D-1-129}{2}\$. Penalty for signing false document, and knows that the document is to be delived a pron conviction thereof, shall be fined not more than one
iny ay	Signature information (See below * Innortant Print Name of Signer: Abyn A. Schopp Signature: Abyn A. Schopp Signature: Signature: Fer West Virgingerson who signs a document he or she knows is false in an	Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person Date: June 10, 2013 mia Code \$\frac{831D-1-129}{2}\$. Penalty for signing false document, and knows that the document is to be delived appear conviction thereof, shall be fined not more than one
leu Ry the	Signature information (See below *Important in Print Name of Signer: Abyn A. Schopp Signature: Abyn A	Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person Date: June 10, 2013 mis Code 5310-1-129. Penalty for signing false document. y material respect and knows that the document is to be delivered a poor conviction thereof, shall be fined not more than one one than one year, or both.

WY612 - 0446/2013 WA



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

April 10, 2015

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

RE:

Cool Unit 1H

Quadrangle: Pullman 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 Cool Unit 1H 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 Cool Unit 1H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Haley West Landman

Office of 1 and 1

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

Date of Notice Certification: 04/15/2015		2	API No. 47- 017 -		
	,	(Operator's	Well No. Cool	Unit 1H
		,	Well Pad N	ame: Stanley	
Notice has l					
	ne provisions in West Virginia Code §	22-6A, the Operator has provi	ded the req	uired parties w	rith the Notice Forms listed
	tract of land as follows:				
State:	West Virginia		Easting:	510400m	
County:	Doddridge		Northing:	4343068m	
District:	Central	Public Road Acces		CR 21/1	
Quadrangle:	Pullman 7.5'	Generally used far	m name:	Webb, Stanley, e	t al.
Watershed:	North Fork Hughes River				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sled the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applicant	need in subdivisions (1), (2) and ction sixteen of this article; (ii) rivey pursuant to subsection (a f this article were waived in vender proof of and certify to the	d (4), substhat the receipt, section to writing by	ection (b), sec quirement was en of this arti- the surface ov	etion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
*PLEASE CHI	West Virginia Code § 22-6A, the Op rator has properly served the required ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	Departies with the following: NOTICE NOT REQUIRES SEISMIC ACTIVITY WAS	ED BECAU	JSE NO TED	OOG OFFICE USE ONLY RECEIVED/ NOT REQUIRED RECEIVED
	TICE OF INTENT TO DRILL or	■ NOTICE NOT REQUIR NOTICE OF ENTRY FOR P WAS CONDUCTED or	ED BECAU	JSE	RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFA	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PUE	BLIC NOTICE				RECEIVED
■ 6. NO	TICE OF APPLICATION				RECEIVED

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.

Office of Grad Gas

WW-6AC (1/12)

Telephone:

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.

Facsimile:

Well Operator: Antero Resources Corporation By: Kevin Kilstrom Its:

VP of Production 303-357-7310

Address: 1615 Wynkoop Street

> Denver, CO 80202 303-357-7315

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 15 day of April 2015

Notary Public

My Commission Expires JM/y 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.

WW-6A (9-13)

API NO. 47- 017 OPERATOR WELL NO. Cool Unit 1H
Well Pad Name: Stanley

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 that	in the filing date of permit application.
Date of Notice: 4/15/2015 Date Permit Application Filed: 4/15/2015 Notice of:	2015
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	ROVAL FOR THE AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10	(b)
	OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment or piregistered mail or by any method of delivery that requires a receipt of sediment control plan required by section seven of this article, and to the surface of the tract on which the well is or is proposed to be located in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well pursual operator or lessee, in the event the tract of land on which the well pursual operator or lessee, in the event the tract of the surface tract or tract well work, if the surface tract is to be used for the placement, constraint which is the surface tract is to be used for the placement, constraint proposed water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section of provision of this article to the contrary, notice to a lien holder is not Code R. § 35-8-5.7.a requires, in part, that the operator shall also pursuar purveyor or surface owner subject to notice and water testing	or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the of the surface tract is to be used for roads or other land disturbance as and to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed function, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to defend the operator of any natural gas storage field within which the etenants in common or other co-owners of interests described in the neight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
☑ Application Notice☑ WSSP Notice☑ E&S Plan Notice☑ SURFACE OWNER(s)	☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE
Name: PLEASE SEE ATTACHMENT	Name: NO DECLARATIONS ON RECORD WITH COUNTY
Address:	Address:
Name:	COAL OPERATOR
Address:	Name: NO DECLARATIONS ON RECORD WITH COUNTY
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name: William & Sharon Britton	WATER PURVEYOR(s)/OWNER(s) OF WATER WELL,
Address: RR 1 Box 203	SPRING OR OTHER WATER SUPPLY SOURCE
West Union, WV 26456	Name: PLEASE SEE ATTACHMENT
*PLEASE NOTE THE ADDITIONAL SURFACE TRACTS WITH DISTURBANCE SHOWN ON PAD DESIGN ARE <u>NOT</u>	Address:
OVERLYING THE OIL & GAS LEASEHOLD BEING DEVELOPED BY THE PROPOSED WELL; THEREFORE, ARE	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□OT REQUIRED TO BE NOTIFIED PER WV CODE 22-6A-10.	Name:
ANTERO HAS SECURED A SIGNED AGREEMENT WITH THE	Address:
RELATED PARTIES	Estate to the state of
	*Please attach additional forms if necessary

APR 2 4 2015

WW-6A (8-13)

API NO. 47- 017	-	
OPERATOR WE	LL NO.	Cool Unit 1H
Well Pad Name:	Stanley	

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. Cool Unit 1H

Well Pad Name: Stanley

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 location 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

Racaived

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.

4701706733

WW-6A (8-13) API NO. 47- 017 OPERATOR WELL NO. Cool Unit 1H
Well Pad Name: Stanley

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.

Fleceived Office of fill 2 Cas APR 2 4 2015 WW-6A (8-13) 47 0 1 7 0 6 7 3 3 API NO. 47-017 7 0 6 7 3 3 OPERATOR WELL NO. Cool Unit 1H Well Pad Name: Stanley

Notice is hereby given by:

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

Email: asteele@anteroresources.com

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 deepprivacyofficer@wv.gov.

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

Subscribed and sworn before me this 15 day of April 2015.

When the subscribed and sworn before me this 15 day of April 2015.

Notary Public My Commission Expires 11/1/2018

WW-6A Notice of Application Attachment:

Surface Owners:

Owner:

Stanley Webb, et al (James E. Webb, Richard L. Webb, Brian M. Webb)

Address:

RR 1 Box 206A

West Union, WV 26456

Owner:

Stanley Webb, et al (James E. Webb, Richard L. Webb, Brian M. Webb) (2nd Address)

Address:

945 Cabin Run Rd.

West Union, WV 26456

Owner:

James E. Webb (2nd Address)

Address:

813 Cabin Run Rd.

West Union, WV 26456

Owner:

Brian M. Webb (2nd Address)

Address:

RR 1 Box 207

West Union, WV 26456

Water Source Owners:

Owner:

Robert L. Britton, et ux (1 Water Source)

Address:

2641 Leeson Run

Pennsboro, WV 26415

Owner:

William & Sharon Britton (1 Water Source)

Address:

RR 1 Box 203

West Union, WV 26456

Owner:

Stanley Webb, et al (James E. Webb, Richard L. Webb, Brian M. Webb) (3 Water Sources)

Address:

RR 1 Box 206A

West Union, WV 26456

Owner:

Stanley Webb, et al (James E. Webb, Richard L. Webb, Brian M. Webb) (2nd Address)

(3 Water Sources)

Address:

945 Cabin Run Rd.

West Union, WV 26456

Owner:

Brian M. Webb (2 Water Sources) (2nd Address)

Address:

RR 1 Box 207

West Union, WV 26456

Owner:

James E. Webb (5 Water Sources) (2nd Address)

Address:

813 Cabin Run Rd. West Union, WV 26456

-

Owner: Address:

RR 1 Box 208

West Union, WV 26456

Owner:

Robert P. Harris, et al (1 Water Source)

Edward Webb, et al (1 Water Source)

Address:

RR 1 Box 207

West Union, WV 26456

Received Office of the Pea

APR 24 20%

Owner:

Darlene D. Winemiller, et al (1 Water Source)

Address:

RR 1 Box 207 A

West Union, WV 26456

Owner:

Daniel M. Webb (1 Water Source)

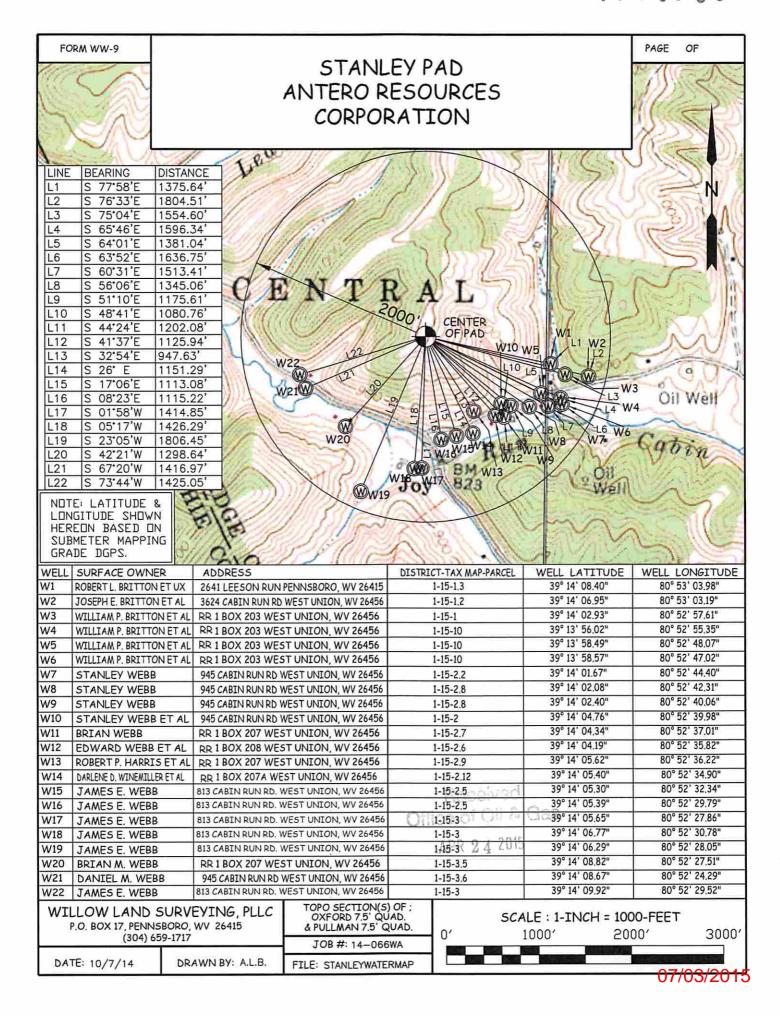
Address:

945 Cabin Run Rd.

West Union, WV 26456

(Note: On attached water well map, 6 other water wells, are identified but they are located greater than 1500' from the subject well pad location)

Received
Office of OHR Gas
APR 24 2015



WW-6A3 (1/12) Operator Well No. Cool Unit 1H

Multiple Wells on the Stanley Pad

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

	equirement:	Notice shall be prov	vided at least SE	VEN (7) da	ys but no more that	n FORTY-FIVE (45)	days prior to
entry Date of Notice	12/3/2012	Date of Pla	nned Entry: 12/	12/2012			
Delivery metho	od pursuant	to West Virginia C	ode § 22-6A-10	a			
☐ PERSONA	AL 🗆	REGISTERED	■ METHO	METHOD OF DELIVERY THAT REQUIRES A			
SERVICE		MAIL			NATURE CONFIR		
on to the surface but no more that beneath such tra owner of miner and Sediment C Secretary, whice enable the surface	e tract to come in forty-five d act that has fil als underlying Control Manual h statement slace owner to co	duct any plat survey lays prior to such en led a declaration pur g such tract in the co al and the statutes ar hall include contact obtain copies from the	s required pursu- try to: (1) The su- suant to section ounty tax records and rules related to information, inc	ant to this a urface owne thirty-six, a The notic o oil and ga	rticle. Such notice s or of such tract; (2) the rticle six, chapter to e shall include a state s exploration and po	shall provide notice of shall be provided at let to any owner or lessed wenty-two of this cod atement that copies of roduction may be obta- age on the Secretary's	ast seven days e of coal seams e; and (3) any the state Erosion ained from the
Notice is hereb	=						
SURFACE	and the second second second second				L OWNER OR LE		
Name: PLEASE S			-		DECLARATIONS ON REC		
				Address.			
				-			
Address:			=: =:	■ MINI	ERAL OWNER(s)		
			_	Name: PLI	EASE SEE ATTACHMENT		
Name:				Address:			
Address:			- .	*nlagea attac	h additional forms if ne	ancom:	
			_	prease attac	ii additional forms ii ne	cessary	
a plat survey or State:	st Virginia Co the tract of la West Virginia Doddridge		A Pt		ude & Longitude:	39.23793, -80.87747 (NAD OCR 19 North Fork Hughes River	33)
	Pullman 7.5'				ed farm name:	Webb, Stanley, et al.	
may be obtaine Charleston, WV obtained from t Notice is here Well Operator:	d from the Se / 25304 (304 he Secretary I	cretary, at the WV I -926-0450). Copies by visiting www.deg	Department of Er of such docume	nvironmenta ents or addit	al Protection headquional information r	il and gas exploration uarters, located at 601 elated to horizontal de Office of the	57th Street, SE, rilling may be
Telephone:	(303) 357- 7310				Denver, CO 80202	APA 242	015
Email:	asteele@anteror	resources.com		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 deprivacyofficer@wv.gov.

WW-6A3 Notice of Entry For Plat Survey Attachment:

Surface Owners:

Located on TM 15/PCL 2

Owner: Address: Brian M. Webb Rt. 1 Box 206 A

West Union, WV 26456

Owner: Address: James E. Webb Rt. 1 Box 206 A

West Union, WV 26456

Owner: Address: Richard L. Webb Rt. 1 Box 206 A

West Union, WV 26456

Owner: Address: Stanley Webb Rt. 1 Box 206 A

West Union, WV 26456

Mineral Owners: Located on TM 15/PCL 2

Owner: Address: Carolyn S. Gaston 1231 Bellaire St.

Fairmont, WV 26554

Owner: Address: Randall Leggett c/o Elizabeth Guido

1364 Locust Ave. Fairmont, WV 26554

Owner: Address: SII Leggett Family LLC

110 N North St.

Washington Courthouse, OH 43160

Owner: Address: **Bradley Leggett**

Rt. 1 Box 79

West Union, WV 26554

Owner: Address: Iennifer L. Powers 124 Clarksburg Rd.

Buckhannon, WV 26201

Received Office of OHR 6 --APR 24 7015

WW-6A5 (1/12)

Operator Well No. Cool Unit 1H

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

Date		Requirement: notice se: 04/15/2015		later than the filing plication Filed: 04/1		application.
Deliv	ery metl	hod pursuant to West	t Virginia Code § 22	2-6A-16(c)		
		FIED MAIL N RECEIPT REQUE		HAND DELIVERY		
returr the p requir drillir dama	receipt in tending to the tending of a highest to the tending of a highest to the tending to the motice.	requested or hand deli peration. The notice provided by subsectio orizontal well; and (3 e surface affected by o	very, give the surface required by this sub- on (b), section ten of b) A proposed surface il and gas operations	ce owner whose land bsection shall inclu- this article to a surf- ce use and compens to the extent the da	I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information the land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the	e address : PLEASE :	eby provided to the Sisted in the records of SEE ATTACHMENT	of the sheriff at the tin	me of notice): Name:	s:	
		eby given: est Virginia Code § 22	2-6A-16(c), notice is	hereby given that the	ne undersigned y	well operator has developed a planned
opera	tion on t	the surface owner's lar		drilling a horizonta	l well on the tra	ct of land as follows:
opera State:	tion on t				l well on the tra Easting:	
	tion on t ty:	the surface owner's lar West Virginia		drilling a horizonta	Il well on the tra Easting: Northing:	ct of land as follows: 510400m
opera State: Coun Distri	tion on t ty:	the surface owner's lar West Virginia Doddridge		f drilling a horizonta UTM NAD 8 Public Road	Il well on the tra Easting: Northing:	ct of land as follows: 510400m 4343068m
opera State: Coun Distri Quad	tion on t ty: ct:	the surface owner's lar West Virginia Doddridge Central		f drilling a horizonta UTM NAD 8 Public Road	Il well on the tra Easting: Northing: Access:	ct of land as follows: 510400m 4343068m CR 21/1
opera State: Coun Distri Quad Wate: This Pursu to be horize surfact inform	ty: ct: rangle: rshed: Notice S: ant to W provided ontal well ce affecte mation re quarters,	the surface owner's lar West Virginia Doddridge Central Pullman 7.5' North Fork Hughes River hall Include: est Virginia Code § 2: d by W. Va. Code § ll; and (3) A proposed ed by oil and gas operelated to horizontal dr	2-6A-16(c), this noti 22-6A-10(b) to a su surface use and com- rations to the extent illing may be obtain	drilling a horizonta UTM NAD 8 Public Road Generally use ice shall include: (1) urface owner whose inpensation agreeme the damages are comed from the Secret	Easting: Northing: Access: ed farm name: A copy of this eland will be unt containing anompensable und tary, at the WV	ct of land as follows: 510400m 4343068m CR 21/1
opera State: Coun Distri Quad Wate: This: Pursu to be horize surfact infort heade gas/p	ty: ct: rangle: rshed: Notice S: ant to W provide ontal wel ce affecte nation re quarters, ages/defa	the surface owner's lar West Virginia Doddridge Central Pullman 7.5' North Fork Hughes River hall Include: est Virginia Code § 2: d by W. Va. Code § ll; and (3) A proposed ed by oil and gas oper elated to horizontal dr located at 601 57th Sault.aspx.	2-6A-16(c), this noti 22-6A-10(b) to a su surface use and con rations to the extent illing may be obtain Street, SE, Charles	drilling a horizonta UTM NAD 8 Public Road Generally use ice shall include: (1) urface owner whose inpensation agreeme the damages are comed from the Secret	Il well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be unt containing an ompensable und tary, at the WV (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.gov/oil-and-www.gov/o</td></tr><tr><td>opera
State:
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horize
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gas/pi</td><td>ty: ct: rangle: rshed: Notice S: ant to W provided ontal well ce affecte mation re quarters,</td><td>the surface owner's lar West Virginia Doddridge Central Pullman 7.5' North Fork Hughes River hall Include: est Virginia Code § 2: d by W. Va. Code § ll; and (3) A proposed ed by oil and gas oper elated to horizontal dr located at 601 57th Sault.aspx.</td><td>2-6A-16(c), this noti
22-6A-10(b) to a su
surface use and con
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Street, SE, Charles</td><td>drilling a horizonta UTM NAD 8 Public Road Generally use ice shall include: (1) urface owner whose inpensation agreeme the damages are coned from the Secret eston, WV 25304</td><td>Easting: Northing: Access: ed farm name: A copy of this eland will be unt containing anompensable und tary, at the WV</td><td>code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href=" https:="" o<="" oil-and-www.gov="" td="" www.gov="">

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 deprivacyofficer@wv.gov.

Factiond Office of the Gas

APR 24 2015

WW-6A5 Notice of Planned Operations Attachment:

Surface Owners:

Owner:

Stanley Webb, et al (James E. Webb, Richard L. Webb, Brian M. Webb)

Address:

RR 1 Box 206A

West Union, WV 26456

Owner:

Stanley Webb, et al (James E. Webb, Richard L. Webb, Brian M. Webb) (2nd Address)

Address:

945 Cabin Run Rd.

West Union, WV 26456

Owner:

James E. Webb (2nd Address)

Address:

813 Cabin Run Rd.

West Union, WV 26456

Owner:

Brian M. Webb (2nd Address)

Address:

RR 1 Box 207

West Union, WV 26456

Office 34 2015



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Earl Ray Tomblin
Governor

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

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

November 13, 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 Stanley Webb Pad, Doddridge County
Cool Unit 1H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit 06-2012-1097 issued to Antero Resources Corporation for access to the State Road for a well site located off of Doddridge County Route 21/1 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.

Dang K. Cleyton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Ashlie Steele

Antero Resources Corporation

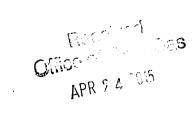
CH, OM, D-6

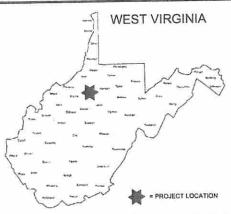
File

Office 2.4 2015

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





STANLEY WELL AND WATER SITE DESIGN & CONST **EROSION & SEDIMENT (**

Douglas 2015

ANTERO RESOURCES C

PROJECT CONTACTS

PROJECT OWNER

ANTERO RESOURCES 1615 WYNKOPP STREET **DENVER. CO 80202**

CONTACT: ANTHONY SMITH FIELD ENGINEER 304.869.3405 OFFICE 304.673.6196 CELL

CONTACT: ELI WAGONER ENVIRONMENTAL ENGINEER 304.622.3842, EXT 311 OFFICE

CONTACT: JOHN KAWCAK ENGINEER 817.368.1553

CONTACT: AARON KUNZLER CONSTRUCTION SUPERVISOR 405 227 8344

LOCATION SURVEYOR

WHITE BROTHERS CONSULTING, LLC CONTACT: LEE SNYDER, PS 447 CALL ROAD SUITE 216 CHARLESTON, WV 25312 304.550.9484

ENGINEER OF RECORD

KLEINFELDER EAST, INC.
CONTACT: JEFFERY B. CRISP, PE
WY PE #20354
3500 GATEWAY CENTRE BLVD, SUITE 200
MORRISVILLE, NC 27560
919.755.5011 OFFICE
919.755.1414 FAX

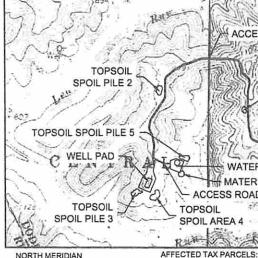
ENVIRONMENTAL/ DELINEATION BOUNDARY

GAI CONSULTANTS, INC. CONTACT: JASON COOK 4198 COX ROAD, SUITE 114 GLEN ALLEN, VA 23060 804.270.9357 OFFICE 303.709.3306 CELL

KLEINFELDER EAST, INC. CONTACT: JAMES M. BEIDEMAN 180 SHEREE BLVD, SUITE 3800 EXTON, PA 19341 610.594.1444 OFFICE 610.594.2743 FAX

TOPO SURVEYOR

BLUE MOUNTAIN AERIAL MAPPING CONTACT: CRAIG FRY 11023 MASON DIXON HIGHWAY BURTON, WV 26562 304.662.2626 OFFICE 304.815.4890 CELL



NORTH MERIDIAN REFERENCED TO NAD83 WEST VIRGINIA STATE PLANE NORTH ZONE

AFFECTED TAX PARCELS: SEE SHEET 2

	SITE LOCA	TIONS		
DESCRIPTION	NAD 83 (WV NORTH) UTM ZONE 17 (M		7 (METERS)	
DESCRIPTION	LATITUDE	LONGITUDE	NORTHING	EASTING
CENTER OF WELL PAD (39.23710135	-80.87947654	4343095.4306	510401.4184
CENTER OF WATER CONTAINMENT PAD	39:23797324	-80.87732122	4343192.4394	510587.2961
STANLEY ACCESS ROAD ENTRANCE	39.23869666	-80.86901707	4343273.7250	511303.8363
JAMES WEBB ACCESS ROAD ENTRANCE	39.23622000	-80.86847100	4342998.9441	511351.3615

FLOODPLAIN	CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES T		NO
PERMIT NEEDED FROM COUNTY FLOO	DPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:		N/A
FLOODPLAIN SHOWN ON DRAWINGS:		N/A
FIRM MAP NUMBER(S) FOR SITE:	54017C0250C & 54085C0	V = 41.00
ACREAGES OF CONSTRUCTION IN FLO		N/A

ACCESS F LENGTH (F		
DESCRIPTION	FEET	
ACCESS ROAD 1	6,490	
ACCESS ROAD 2	368	

6.858

TOTAL

FLOODPLAIN	CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:		NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:		NO
HEC-RAS STUDY COMPLETED:		N/A
FLOODPLAIN SHOWN ON DRAWINGS:		N/A
FIRM MAP NUMBER(S) FOR SITE:	54017C0250C & 54085C	100
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:		N/A

DESIGN CERTIFICATION

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE
DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN
ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES,
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS §35-8.

MM-109 PERMIT

ANTERO RESOURCES WILL OBTAIN AN ENCROACHMENT PERMIT (MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ACCE TOPSOIL SPOIL PILE 2 TOPSOIL SPOIL PILE 5 WELL PAD MATER 0 ACCESS ROAL TOPSOIL 9 TOPSOIL SPOIL PILE 3 SPOIL AREA 4

PLAN REPRODUCTION WA

THE PLANS HAVE BEEN CREATED ON ANY D (\$2");30" REDUCTIONS, REFER TO GRAPHIC SCALE

THE PLANS HAVE BEEN CREATED FOR FULL COLOR I OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR CONSIDERED ADEQUATE FOR CONSTRUCTION PURP

WARNING 07/03/2015 IN COPYING SCALE PLOTTING

Emm unders Beldow.
Call heters you dig.
Call heters you dig.
MISS UTILITY OF WEST VIRGINIA
H-80-245-4444
WEST VIRGINIA STATE LAW
REQUIRES THAT YOU CALL TWO
BUSINESS DAYS BEFORE YOU
DIG IN THE STATE OF WEST
VIRGINIA. IT'S THE LAW!