

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

August 07, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-1706749, 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.

Operator's Well No: KING UNIT 2H

Farm Name: WEBB, JAMES E.

James Martin

API Well Number: 47-1706749

Permit Type: Horizontal 6A Well

Date Issued: 08/07/2015

API Number: 017-06949

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 one hundred (100) 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.
- 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.

API NO. 47-017 - 0 6749

OPERATOR WELL NO. King Unit 2H

Well Pad Name: James Webb Pad

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

1) Well Opera	tor: Antero	Resources	Corp.	494488557	017-Doddr	id Central	Oxford 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's	Well Number	King Unit	2H	Well P	ad Name: Jar	nes Webb F	ad
3) Farm Name	/Surface Own	ner: Webb,	James E	Public R	oad Access: C	R 21/1	W-1
4) Elevation, c 5) Well Type		i: <u>991'</u> X	Oil E	levation, propose Un	d post-constru derground Sto		
	(b)If Gas	Shallow Horizontal	X	Deep	-		Den 1.21
6) Existing Page	d: Yes or No	Yes					1.2
				cipated Thickness ess 50 feet, Assoc	Particular and Artificial Control		
8) Proposed To	otal Vertical I	Depth: 690	0'				
9) Formation a	nt Total Vertic	cal Depth:	Marcellu	s Shale			
10) Proposed	Total Measure	ed Depth:	18200'				
11) Proposed I	Horizontal Le	g Length:	10856'				
12) Approxima	ate Fresh Wat	ter Strata De	pths:	64', 80', 145' - Le	eggett Unit 1H - 310'	(nearby Robert V	Villiams Pad - 990' elevation)
13) Method to 14) Approxima			cpuis.	Offset well records. I	Depths have been	adjusted accor	ding to surface elevations.
15) Approxima	ate Coal Sean	Depths: 1	83', 716'	, 1463'			
16) Approxima	ate Depth to I	Possible Voic	d (coal m	ine, karst, other):	None Anticip	oated	
17) Does Prop directly overly	osed well loca	ation contain	coal sea			No X	
(a) If Yes, pro	ovide Mine In	nfo: Name:					
		Depth				100	
		Seam:			Rege	eived	
		Owner	:		Officeman	aivada a	3
					Other	2015 R G	85
					11.11	2 8 2015	

API NO. 47- 017

OPERATOR WELL NO. King Unit 2H
Well Pad Name: James Webb Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	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#	2400'	2400'	CTS, 977 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	18200'	18200'	4267 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
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.

1221-1

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12630	2500	Lean-H/POZ & Tež - 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

JUL 2,4 2015

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

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

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

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."

Max Pressure - 9300 lbs Max Rate - 80 bpm

- 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 + 0.5% C51.

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 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 flushfild 40 bbls water.

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^{*}Note: Attach additional sheets as needed.

API Number 47 - 017	-1	200
Operator's Well No.	King Unit 2H	

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

OFF	FICE OF OIL AND GAS
FLUIDS/ CUTTINGS	S DISPOSAL & RECLAMATION PLAN
Operator Name Antero Resources Corporation	OP Code 494488557
Watershed (HUC 10) North Fork Hughes River	Quadrangle Oxford 7.5'
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No	
If so, please describe anticipated pit waste: No pi Will a synthetic liner be used in the pit? Yes	oit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cuttings will be tanked and No If so, what ml.? N/A
Proposed Disposal Method For Treated Pit Was	
Land Application	
Underground Injection (UIC	
	e permitted well locations when applicable. API# will be provided on Form WR-34
Off Site Disposal (Supply for Other (Explain	rm WW-9 for disposal location)(Meadowfill Landfill Permit #SWF-1032-98)
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and ho	orizontal)? Air, freshwater, oil based, etc. Dual/Stiff Foam, Production - Water Exact Mud
-If oil based, what type? Synthetic, petroleum,	
Additives to be used in drilling medium? Please See Atta	
	emoved offsite, etc. Stored in tanks, removed offsite and taken to landfill.
-If left in pit and plan to solidify what medium	
-Landfill or offsite name/permit number?Mea	
Permittee shall provide written notice to the Office of Oi West Virginia solid waste facility. The notice shall be pro where it was properly disposed.	il and Gas of any load of drill cuttings or associated waste rejected at any rovided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violat law or regulation can lead to enforcement action. I certify under penalty of law that I have per- application form and all attachments thereto and that	has and conditions of the GENERAL WATER POLLUTION PERMIT issue West Virginia Department of Environmental Protection. I understand that actions of any term or condition of the general permit and/or other applical resonally examined and am familiar with the information submitted on the true, based on my inquiry of those individuals immediately responsible in its true, accurate, and complete. I am aware that there are significated possibility of fine or imprisonment.
Company Official Signature	Le Kon
Company Official (Typed Name) Cole Kilstrom	NOTA OUACKET
Company Official Title Environmental & Regulatory Man	nager NOTARY PUBLIC NOTARY PUBLIC NOTARY ID 2014-002820
Subscribed and sworn before me this 30 day	y of TMMe , 20 5 RACAIVED
Kille and	Notary Publioffice of Oil & G
My commission expires MIV 21, 2018	JUL 24 2015
My commission expires 11 21, 2018	JUL DIE CONT

Antero Resources Corporation			
Proposed Revegetation Treatment: Acres Disturbed 8.41 ext	sting acres* Prevegetation pl	Н	
Lime 2 - 3 Tons/acre or to correct to pl	6.5		
Fertilizer type Hay or straw or Wood Fiber (will be used			
Fertilizer amount 500	bs/acre		
Mulch 2-3 Tons/	acre		
Access Road "A" (4.24) + Well Pad (4.17) = 8.41 Acres * Please note the additional disturbance shown on the As-Built drawings is associated to See	with the centralized impoundment.		
Temporary	Perm	anent	
Seed Type lbs/acre	Seed Type	lbs/acre	
Annual Rye Grass 40	Crownvetch	10-15	
*See attached Table 3 for additional seed type (James Webb Pad Design Page 15)	'See attached Table 4A for additional seed typ	pe (James Webb Pad Design Page 15)	
*or type of grass seed requested by surface owner	*or type of grass seed requested by surface owner		
Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Danglas Musular Comments: Maintain 12 15, 522 Artas To W. Dep for	ed + Mulch any equilations	distorbed	
Title: O.1 or bas inspector			

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Form WW-9 Additives Attachment

SURFACE INTERVAL

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

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) I 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

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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

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JUL 0 6 2015

WV Department of Environmental Protection



911 ADDRESS 416 Cabin Run Rd. West Union 26456

Well Site Safety Plan Antero Resources

Well Name: Hunter Unit 1H, Hunter Unit 2H, King Unit 1H,

King Unit 2H, Mahogany Unit 1H, Mahogany Unit 2H, Mary Jane Unit 1H, Mary Jane Unit 2H,

Mary Jane Unit 3H

Pad Location: JAMES WEBB PAD

Doddridge County/Central District

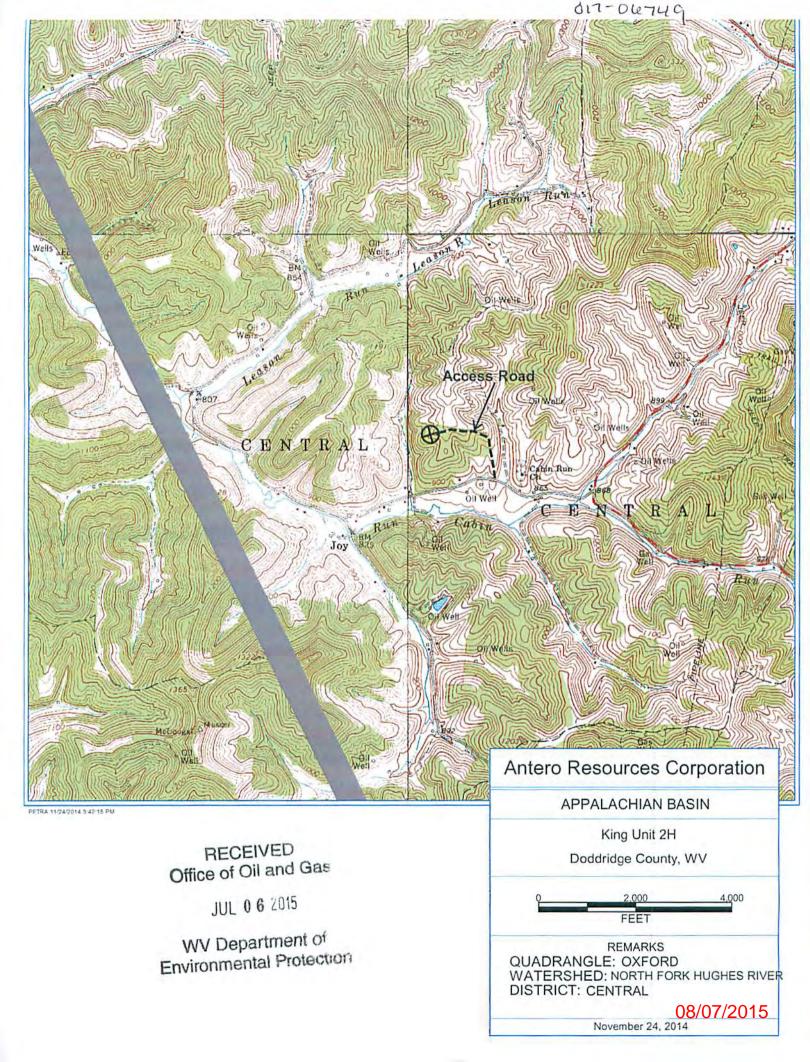
GPS Coordinates: Lat 39°14′18.96″/Long -80°52′23.63″ (NAD83)

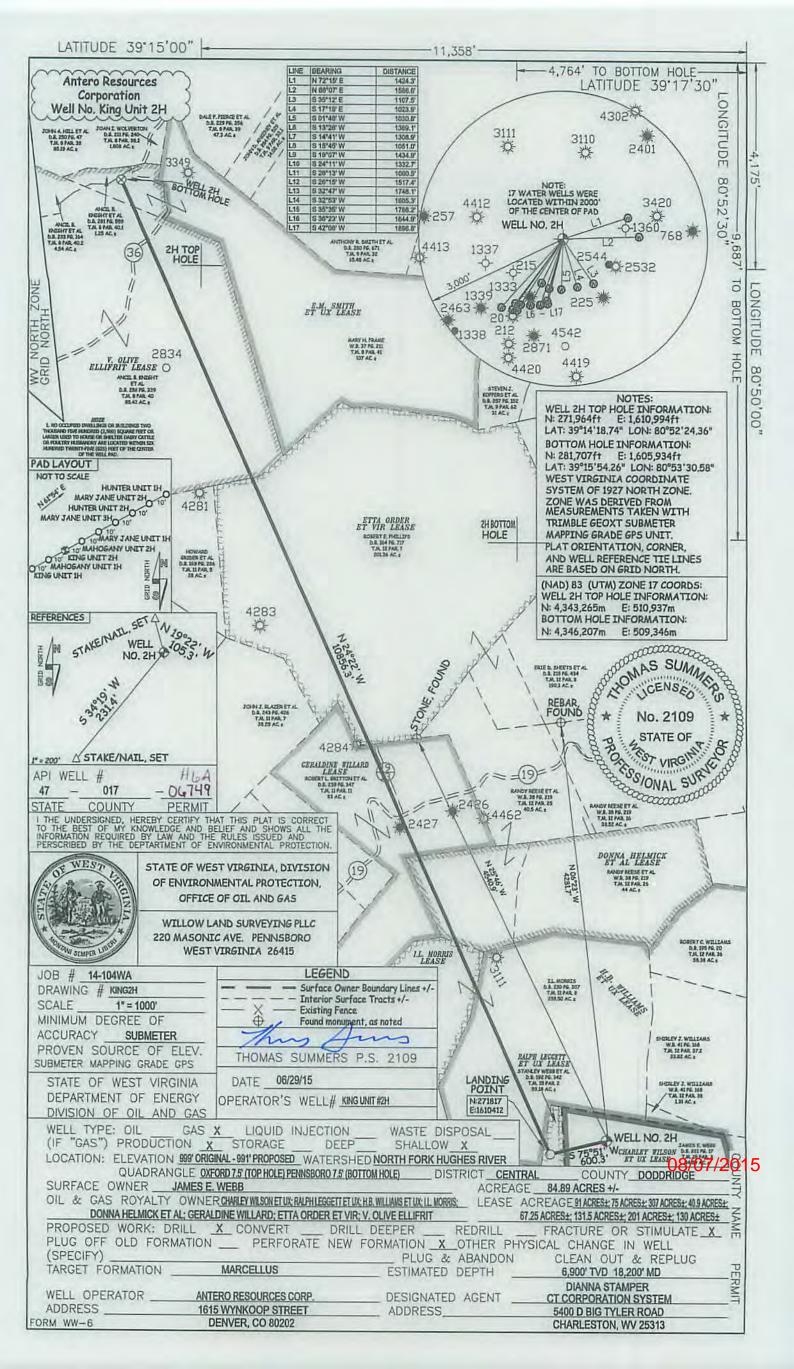
Driving Directions:

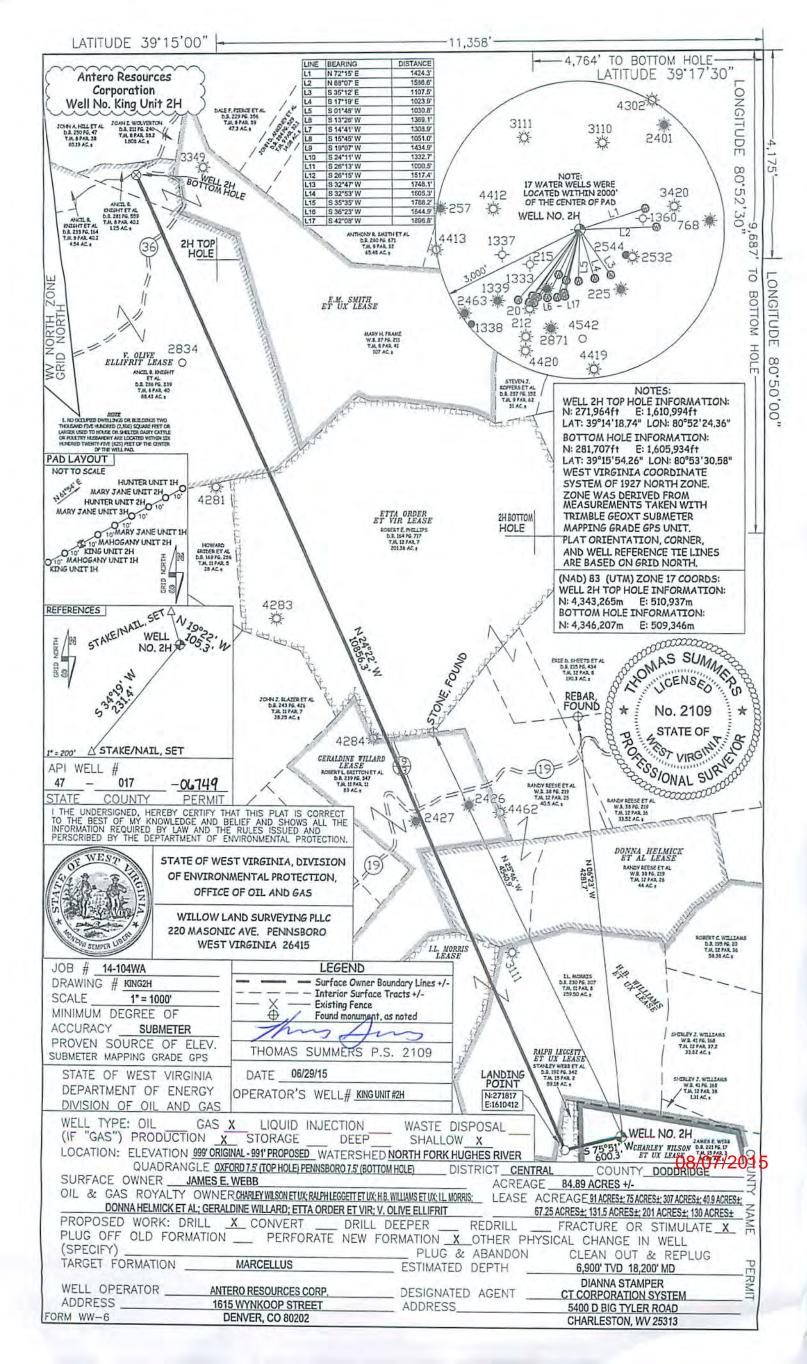
From Greenwood: Head southeast on Co Route 50/30/Old U.S. 50 W/Sunnyside Rd for 3.4 miles. Turn right onto Co Route 21/Oxford Rd and continue for 2 miles. Turn right onto Co Route 21/1/Cabin Run. After approximately 0.4 miles, access road will be on the right.

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

DCW 7-21-15







Operator's Well Number

King 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
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. Coffn President	nan 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
Raiph Leggett, et ux Lease			
Ralph Leggettt, 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 Vailey 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
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	Assignment	0245/0001
CONSOL Energy Holdings, LLC XVI	CNX Gas Company, LLC	Affidavit of Name Changes & Merger	DB 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
I.L. (Ike) Morris	Antero Resources Corporation	RECEIVED Office of Oil and Oil	0348/0552

^{*}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.



17-06749

Operator's Well Number

King Unit 2H

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Donna Helmick, et al Lease			
Donna Helmick, et al	Clarence Mutschelknaus	1/8	0115/0600
Clarence Mutschelknaus	Antero Resources Corporation	Assignment	0341/0225
Geraldine Willard Lease			
Geraldine Willard	Key Oil Company	1/8	0260/0346
Key Oil Company	Antero Resources Appalachian Corporation	*Partial Assignment of Oil & Gas Lease	0272/0350
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Etta Order, et vir Lease			
Etta Order, et vir	Key Oil Company	1/8	0109/0109
Key Oil Company	Antero Resources Appalachian Corporation	*Partial Assignment of Oil & Gas Leases	0256/0285
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

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Operator's Well No.	King Unit 2H
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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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Nun	iber	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Olive Ellifritt Lease	V. Olive Ellifritt, et al		Hope Natural Gas Company, a West Virginia Corporation	1/0	0004 (0040
	Hope Natural Gas Company		Hope Construction & Refining Company	1/8 Assignment	0031/0050
	Hope Construction & Refini	ng Corporation.	South Penn Natural Gas Company	Assignment	0054/0149
	South Penn Natural Gas Con		South Penn Oil Company, a Corporation	Confirmatory Deed	0133/0296
	South Penn Oil Company		Pennzoll Company	Name Change	Exhibit 2
	Pennzoil Company		Pennzoil United, Inc.	Confirmatory Deed	0153/0051
	Pennzoil United, Inc.		Pennzoil Company	Name Change	Exhibit 3.
	Pennzoil Company		Vinson Oil & Gas Drilling Company, a Corporation	Assignment & Bill of Sale	0113/0462
	Vinson Oil & Gas Drilling Co.	mpany, a Corporation	Consolidated Gas Supply Corporation	Vinson recognizes and	Recital in 0113/0463
				& acknowledges that Consoli	
				Gas Supply Corporation own	
	Consolidated Gas Supply Con	poration	Complete Company	rights under Pennzoil lease #	
	Consolidated Gas Transmissi		Consolidated Gas Transmission Corporation	Assignment	0135/0583
	CNG Development Company		CNG Development Company CNG Producing Company	Assignment	0139/0041
	CNG Producing Company		Dominion Exploration & Production Company, Inc.	Merger	Exhibit 4
	Dominion Exploration & Pro-	duction Company, Inc.	Consol Gas Company	Name Change	AOI 0058/0366
	Consol Gas Company	Saraham Sarah Sarah Gilga	CNX Gas Company, LLC	Name Change Merger	DB 0286/0144
	CNX Gas Company, LLC		Antero Resources Appalachian Corporation	Assignment	DB 0292/0469 0296/0715
	Antero Resources Appalachi	ian 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.

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

Office of Oil and Gas

JUL 0 6 2015

WV Department of Environmental Protection

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:	Ward McNeilly (Multil)
Its:	VP, Reserves Planning & Midstream

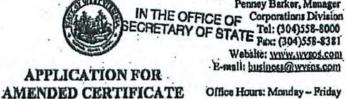
Page 1 of

FILED

JUN 1 0 2013 Penney Barker, Manager

Natalie B. 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



OF AUTHORITY.

Office Hours: Monday - Priday

8:30 a.m. - 5:00 p.m. BT

		/irginia Code, the undersigned corporation hereby **** thority and submits the following statement:
1.	Name under which the corporation was authorized to transact business in WV:	Antero Resources Appalachian Corporation
2.	Date Certificate of Authority was issued in West Virginia:	6/25/2008
3.	Corporate name has been changed to: (Attach one Certified Conv of Name Change as filed in home State of incorporation.)	Antero Resources Corporation
4.	Name the corporation elects to use in WV: (due to home state name not being available)	Antero Resources Corporation
5.	Other amendments: (attach additional pages if necessary)	
		* *
6.	Name and phone number of contact person. (the filing, listing a contact person and phone num document.)	(This is optional, however, if there is a problem with nber may avoid having to return or reject the
	Alvyn A. Schopp	(303) 357-7310
	Contact Name Signature information (See below *Important A	Phone Number
7.		Phone Number
	Signature information (See below * <i>Important</i>	Phone Number Legal Notice Reparding Signature):
Any o the	Signature information (See below *Innortant April Name of Signer: April A. Schopp Signature: April A. Schopp Signature: April A. Schopp Signature: April A. Schopp Signature: April A. Schopp	Phone Number Legal Notice Reparding Signature): Title/Capacity: Authorized Person Date: June 10, 2013 mia Cade 8311)-1-129. Penalty for signing false decument, y material respect and knows that the document is to be delivered upon conviction thereof, shall be fined not mars than one was to both.
Any o the	Signature information (See below *Imperiant April Name of Signer: Abyn A. Schopp Signature: Abyn A. Schopp Signature: Signature: For West Virging person who signs a document he or she knows is false in any a secretary of state for filing is guilty of a mademoner and, and dollars or conflued in the county or regional jall not me	Phone Number Legal Notice Reparding Signature): Title/Capacity: Authorized Person Date: June 10, 2013 In Code 5311)-1-129. Penalty for signing false decument. y material respect and knows that the document is to be delivered, upon conviction thereof, shall be fitted not more than one

W1411 - 6416/2011 Walters Klanve Oelias

WV Department of Environmental Protection

EODM MAN CALL EXCURIT	March St. Line 18
FORM WW-6A1 - EXHIBIT 2 SOUTH PENN OIL COMPANY	
Foreign Corporation Delaweire Bra199 Page 350	17 & 1 / 1 × 1 / 1 / 1
Admitted July 9, 1955	V 4
Attorney	
Rejorts	
Address: Drake Theater Bldg.	
106 Duncomb St., Oil City, Penna.	1686 W. S
CHANGE OF NAME: THE PENNZOIL COMPANY, filed July 31, 1963; Book 238, Page 309.	Washing a
July 31, 1963; Book 238, Page 309.	
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	ETT A X
	the transfer of
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Office of Oil and Gas	
JUL 0 6 2015	
WV Department of	
Environmental Protection	
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Column 4 7 5 5	1 4
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FORM WW-6A1 EXHIBIT 3

STATE OF WEST VIRGINIA 17-06749 CERTIFICATE

1. JOHN D. ROCKEFELLER, IV. Secretary of State of the State of West Virginia, barely certify that

PENNZOIL UNITED, INC.,

a corporation organized and existing under and by virtue of the laws of the State of Delaware, which was heretofore duly authorized to hold property and transact business in the State of West Virginia by a certificate of authority issued thereto by my said office on the 1st day of April, 1968, has this day presented to me in my said office a duly certified copy of Change of Name from PENNZOIL UNITED, INC. to PENNZOIL COMPANY, filed in the Office of the Secretary of State of the State of Delaware on the 12th day of May, 1972, which said change of name has been duly filed and made a part of the original records now on file in my said office.

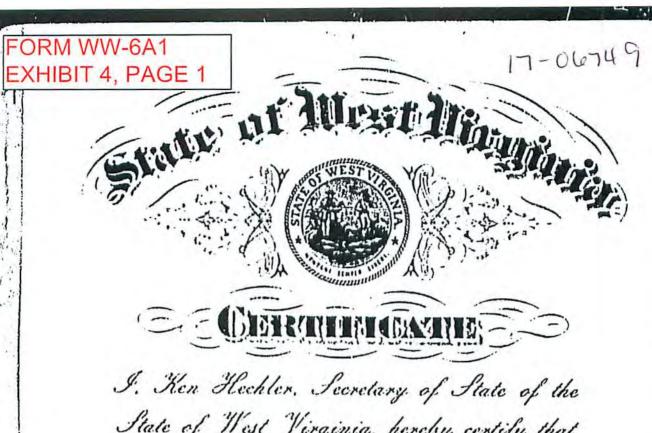
RECEIVED
Office of Oil and Gas

JUL 0 6 2015

WV Department of Environmental Protection

State, at the	City of Charl	loston, this_	SIXTH	
day of	4	JUNE, 1	972.	

Secretary of State.



State of West Virginia, hereby certify that

originals of a Notice of Intention to Withdraw with the application of

CITE DEVELOPMENT COMPANY

for a Certificate of Withdrawal from West Virginia, signed and verified, as required by the provisions of Chapter 31, Article 1, Section 60 of the West Virginia Code are filed in my office and conform to law. Therefore, I issue this

CERTIFICATE OF WITHDRAWAL

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

Given under my hand and the Great Seal of the State of West Virginia, on this 19 96 Oil and Ga JULY Jon John July Department of Standary of St

ORM WW-6A1 KHIBIT 4, PAGE 2

KER HECHLER



17-06749

10 BE FILED IN DUSLICATE DRIGINALS

JUL 1 0 1991

08/07/2015

APPLICATION FOR

	CNG Devel	OF Company	WES	RY OF STATE T VIRGINIA
In accordance v corporation hereby ap statement:	with Chapter 31, Article plies for a certificate	e 1, Section 60 of the Co of withdrawal from West	de of West Virginia, Virginia, and subm	the undersigned its the following
The name of the	corporation is:	CNG Development C	ompany	
It is incorporated unde	the laws ofDela	rare		
IT IS NOT TRANSACTION				
in any action, suit or time the corporation	proceeding based up was authorized to tran	ransact business in West opt service of process, and on any course of action react business in West Ver etary of State of West Virg	nd consents that se arising in West Virginia may thereal	rvice of process
The post office	address to which the	Secretary of State may	mail a copy of any	process against
the corporation is:	CHG Producing C	ompany, CNG Towe 70112-6000 ACC	. 1450 Poydra	s Street,
the aggregate n	umber of shares which	h it has authority to issu within a class, as of this d	s itan: but but alses	es, par value et
NUMBER OF SHARES	CLASS	SERIES	PAR VALUE	E/NO PAR
1,400,000	Conmon		100	
The aggregate nu par, and series, if any, w	imber of its issued sha rithin a class, as of this	ires, item zed by classes, date is	par value of shares,	, share a without
IUMBER OF SHARES	CLASS	En Fe	PAR VALUE	/NO PAR
1,168,410	Common		Offic	RECEIVED be of Oil and Ga
				1111 0 6 5012
the amount of its state of	capital as of this date is	\$ 28,4 . 4	V	VV Department

FORM WW-6A1 EXHIBIT 4, PAGE 3

17-06749

CAG Development Company (Through CHG Producing Company) corporate name Louislana State of Orleans CX 2 # 1 81 --a Notary Public, do James E. Mright, Jr. D. Malcolm Johns, Jr. nereby certify that the Secretary office of CNG Producing Company corporate name citice appeared the area they's given the fore; ong as the aut and deed of the corporation. Notity Public (notary sea it death My commission expires

Office of Oil and Gas

JUL 0 6 2015

WV Department of Environment 8/07/2015

DATE: June 30 , 20 15 OPERATOR'S WELL NO. King Unit 2H API NO: $\frac{47}{\text{State}}$ 017 - 06749 State County Permit No.

KARA QUACKENBUSH

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

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

AFFIDAVIT

State of Colorado	
County of Denver	
I, Max W. Green (the designated ow	mer or operator
or authorized representative thereof), after bein declare that the undersigned is authorized by tworking interest in the well permit application affidavit is attached to state that (he, she, or	g duly sworn, do the owner of the n to which this
to the owner of the oil and gas in place not less of the total amount paid to or received by or owner of the working interest at the wellhead for	than one-eighth allowed to the
so extracted, produced, or marketed before deduced to be paid or set aside for the owner of the oil or all such oil or gas to be extracted, produced from the well. West Virginia Code 22-6-8(e).	cting the amount or gas in place,
riom the weir. West Virginia Code 22-6-8(e).	
Signed: MD	
Taken, subscribed and sworn to before me this	30 day of
Kuulul Notary Pu	RECEIVED blic Office of Oil and Gas
V A TOTAL TOTAL	JUL 0 6 2013
My Commission expires:	WV Department of Environmental Protection
	FUMION



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

June 30, 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: King 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 King 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 King Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Max W. Green

Supervisor of Land Operations - Marcellus

RECEIVED
Office of Oil and Gas JUL 0 6 2015 WV Department of Environmental Protection

08/07/2015

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

-06749

	ce Certification: 06/30/2015		API No. 47	7- <u>017 - レ</u>	6749
			Operator's	Well No. King	Unit 2H
			Well Pad I	Name: James	Webb
Notice has I					
	ne provisions in West Virginia Code	e § 22-6A, the Operator has pro	vided the rec	quired parties v	with the Notice Forms listed
	tract of land as follows:				
State:	West Virginia	UTM NAD 83	Easting:	510937m	
County:	Doddridge	<u>-</u>	Northing:	4343265m	
District:	Central	Public Road Acc		CR 21/1	
Quadrangle:	Oxford 7.5'	Generally used f	arm name:	Webb, James E.	· · · · · · · · · · · · · · · · · · ·
Watershed:	North Fork Hughes River				
it has provid information r of giving the requirements Virginia Cod	the secretary, shall be verified and ed the owners of the surface descrequired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant shall have been completed by the applicant	ribed in subdivisions (1), (2) a section sixteen of this article; (i survey pursuant to subsection of this article were waived in I tender proof of and certify to	and (4), subsiti) that the re (a), section writing by	section (b), se quirement was ten of this art the surface or	ction ten of this article, the deemed satisfied as a resuicle six-a; or (iii) the notice wher; and Pursuant to Wes
	West Virginia Code § 22-6A, the Crator has properly served the requirements		this Notice C	ertification	
*PLEASE CHI	CK ALL THAT APPLY				OOG OFFICE USE ONLY
_	CK ALL THAT APPLY FICE OF SEISMIC ACTIVITY 0	r NOTICE NOT REQUI			
☐ 1. NO		SEISMIC ACTIVITY WAS	CONDUC	TED	ONLY RECEIVED/
☐ 1. NO	FICE OF SEISMIC ACTIVITY o	SEISMIC ACTIVITY WAS	S CONDUC EY WAS CO RED BECA	TED ONDUCTED USE	ONLY RECEIVED/ NOT REQUIRED
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□ 1. NO' □ 2. NO' □ 3. NO'	FICE OF SEISMIC ACTIVITY OF	SEISMIC ACTIVITY WAS EVEY OF NO PLAT SURV TO NOTICE NOT REQUI NOTICE OF ENTRY FOR WAS CONDUCTED OF WRITTEN WAIVER (PLEASE ATTACH)	S CONDUC EY WAS CO RED BECA PLAT SUR' BY SURFA	TED ONDUCTED USE VEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED/ NOT REQUIRED

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 Action of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been notice required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of the person may be made by affidavit of personal service, the return receipt cord or other notal receipt for certified mailing. JUL 0 6 2015 the return receipt card or other postal receipt for certified mailing.

WV Department of Environmental Procession

Its:

Certification of Notice is hereby given:

THEREFORE, I Ward McNeilly , 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 By:

Ward McNeilly

VP, Reserves Planning & Midstream

Telephone: 303-357-7310 Address: 1615 Wynkoop Street

Denver, CO 80202

Facsimile: 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 30 day of tune 2015

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 JUL 0 6 2015 WV Department of Environmental Protection

WW-6A (9-13)

API NO. 47-017 - 06749 OPERATOR WELL NO. King 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: 7/1/2015 Date Permit Application Filed: 7/1/2015 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: SURFACE OWNER(s) COAL OWNER OR LESSEE Name: NO DECLARATIONS ON RECORD WITH COUNTY 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 West Union, WV 26456 Address: SURFACE OWNER(s) (Road and/or Other Disturbance) WATER PURVEYOR(s)/OWNER(s) OF WATER WELL. Name: 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: RECEIVE *Please august Old divional forms if necessary Name: Address: JUL 0 6 2015 WV Department of Environmental Protection

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)

Office of Oil and Gas

JUL 0 6 2015

WV Department of
Environmental Protection

API NO. 47-017

OPERATOR WELL NO. King 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/oiland-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 attributed by a Closs 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 state of 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 reporting accounted dwalling structures pursuant to this section. The provide large is any by the secretary that well location restrictions regarding occupied dwelling structures pursuant to this section. Upon tinding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate penetrally required afteration to address the items

08/07/201

08/07/2015

WW-6A (8-13) API NO. 47-017 OPERATOR WELL NO. King 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. (1) 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 WED Chief, Office of Oil and Gas

Department of Environmental Protection

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

JUL 0 6 2015

Such persons may request, at the time of submitting written committed in the persons may request, at the time of submitting written committed in the persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENTAL

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

Office of Oil and Gas

JUL 0 6 2015

WV Department of
Environmental Protection

WW-6A (8-13) API NO. 47-017 OPERATOR WELL NO. King Unit 2H
Well Pad Name: James Webb

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.

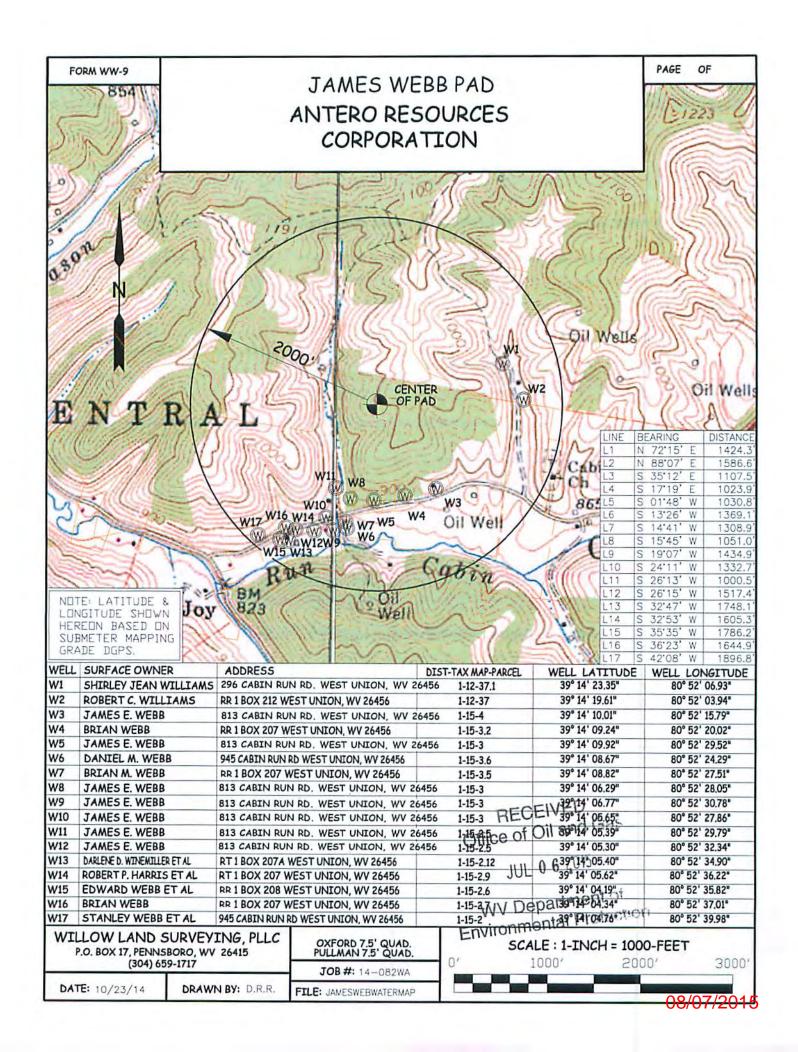
KARA QUACKENBUSH
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20144028297
MY COMMISSION EXPIRES JULY 21, 2018

My Commission Expires TMY 21,2018

Office of Oil and Gas

JUL 0 6 2015

WV Department of Environmental Protection



Operator Well N	O. King Unit 2H
Multiple Wells on th	o James Wohh Bad

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

	Requirement	: Notice shall be prov	ided at least SEVEN (7) days but no more	e than FORTY-FIVE (45) days prior to
entry Date of Notic	e: 3/26/2014	Date of Plat	nned Entry: 4/5/2014	
		147 40 12		
Delivery met	hod pursuant	to West Virginia Co	ode § 22-6A-10a	
☐ PERSON	NAL [REGISTERED	■ METHOD OF DELIVERY THA	T REQUIRES A
SERVIC	Œ	MAIL	RECEIPT OR SIGNATURE CON	NFIRMATION
n to the surfa ut no more the eneath such where of mine nd Sediment ecretary, when hable the sur	han forty-five tract that has f erals underlyin Control Manuich statement	nduct any plat surveys days prior to such enti- iled a declaration puring such tract in the co- ual and the statutes an shall include contact in obtain copies from the	s required pursuant to this article. Such no try to: (1) The surface owner of such tract; suant to section thirty-six, article six, char unty tax records. The notice shall include d rules related to oil and gas exploration a information, including the address for a w	(2) to any owner or lessee of coal seams ofter twenty-two of this code; and (3) any a statement that copies of the state Erosion and production may be obtained from the
	CE OWNER(s		☐ COAL OWNER O	D I ESSEE
	es E. Webb (Life)			ON RECORD WITH THE COUNTY
Address: 813				THE GOOT!
West Union,	, WV 26456	/	114414551	
Jame: Josep				
Address: 30 R	ed Oak Dr.		MINERAL OWNE	R(s)
West Union,			Name: Robert L. Riley	Cinda L. Fleming
Vame:			Address: 248 Late Ave	4501 Hudson St.
Address:				Parkersburg, WV 26104
			*please attach additional form	s if necessary
	Vest Virginia Con the tract of West Virginia Doddridge	Code § 22-6A-10(a), n land as follows:	Approx. Latitude & Longitu Public Road Access: Watershed:	well operator is planning entry to conduct ude: 39.238599, -80.873231 (NAD 83) CR 21/1 North Fork Hughes River
District:	Oxford 7.5'		Generally used farm name:	Webb, Joseph E.
District: Quadrangle: Copies of the	Oxford 7.5'	and Sediment Control ecretary, at the WV D 4-926-0450). Copies by visiting <u>www.de</u> p	Generally used farm name: Manual and the statutes and rules related Department of Environmental Protection has of such documents or additional informations Wv.gov/oil-and-gas/pages/default.aspx.	to oil and gas exploration and production
District: Duadrangle: Copies of the nay be obtain tharleston, We btained from	oxford 7.5' state Erosion and from the S V 25304 (30) the Secretary reby given b	4-926-0450). Copies by visiting <u>www.dep</u>	Manual and the statutes and rules related	to oil and gas exploration and production and eadquarters, located at Offices Rec. SE, ion related to horizontal drilling may be 100.5
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District: Quadrangle: Copies of the may be obtain Charleston, W obtained from	oxford 7.5' state Erosion and from the S/V 25304 (30) the Secretary	4-926-0450). Copies by visiting www.dep y: ces Corporation	Manual and the statutes and rules related Department of Environmental Protection has of such documents or additional informat www.gov/oil-and-gas/pages/default.aspx.	to oil and gas exploration and production and eadquarters, located at Offices Ref. SE, ion related to horizontal drilling may be JUL 0 6 2013 WV Departme

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-6A5 (1/12)

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

Delivery	method pursuant to West	Virginia Code § 2	22-6A-16(c)			
■ CEI	RTIFIED MAIL		HAND			
	TURN RECEIPT REQUES	TED	DELIVERY			
return recuthe planner required to drilling of damages to (d) The notice.	eipt requested or hand delived operation. The notice roo be provided by subsection f a horizontal well; and (3) to the surface affected by oil otices required by this section hereby provided to the SU dress listed in the records of	ery, give the surfa equired by this su (b), section ten o A proposed surfa and gas operation on shall be given t	ace owner whose lan- absection shall inclused this article to a surface use and compen- ns to the extent the di- to the surface owner.	d will be used for de: (1) A copy face owner whose sation agreement amages are com at the address list	cation, an operator shall, by certor the drilling of a horizontal well of this code section; (2) The insel land will be used in conjunction to containing an offer of comperpensable under article six-b of the sted in the records of the sheriff and the sted in the records of the sheriff and the sted in the records of the sheriff and the sted in the records of the sheriff and the sted in the records of the sheriff and the sted in the records of the sheriff and the sted in the records of the sheriff and the sted in the s	I notice of formation on with the isation for is chapter.
Name:			Addres	30 Red Oak Dr.		
Name:Address:	813 Cabin Run Rd. Nest Union, WV 26456 hereby given: o West Virginia Code § 22-	6A-16(c), notice i	s hereby given that t	S: 30 Red Oak Dr. West Union, WV 26 the undersigned of well on the tra	well operator has developed a pla	anned
Name:Address:	813 Cabin Run Rd. West Union, WV 26456 hereby given:	6A-16(c), notice i I for the purpose o	s hereby given that t	he undersigned all well on the tra Easting: Northing:	well operator has developed a pla	unned
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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.

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Office of Oil and Gas

JUL 0 6 2015

Fuvironmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

December 16, 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

King Unit 2H Well site

Dear Mr. Martin,

Earl Ray Tomblin

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 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.

Day C. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Ashlie Steele

Antero Resources Corporation

CH, OM, D-4

File

Office of On and Gas

JUL'Ce 7

WV Departmental Operation O8/07/2015

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

RECEIVED
Office of Oil and Gas

JUL 0 6 2015

WV Department of Environmental Protection.

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

CENTRAL DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA CABIN RUN WATERSHED

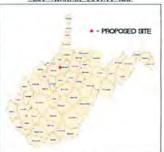
USGS 7.5 PULLMAN & OXFORD QUAD MAPS



Ex Access Road 'A' (1.938) 424 Total Affected Area 8.41

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

WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

DESIGN CERTIFICATION
THE DRAFFIGE, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAMS ATTACHED INDITO HAVE
BEEN PROPARED IN ACCORDANCE THIS THE
USEN VINGENIA CODE OF STATE RULES, DIVISION
OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL
AND GAS CERT 35-8.



MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!

Proposed voice Herini	WV Harts NAD 27	MAD 23	OTM (METERS)	MAD AT LIST & LUNG
King	N-271954 79	N 271989 36	N #3#3251 E1	LAT 36-14-18 9385
Line 114	E 1610616.67	E 1579529.59	E 510902 17	LC943 - 83-52-23 WHIS
Mahogany	N 271959 40	N 271994 GT	N 4343253.29	LAT 58-14-18 0964
Quit tie	£ 1610665.49	£ 1879044.41	E 512934.83	LCH45 -80-12-21 8157
King	N 271964.18	74 37109R 78	N 4343064 77	AT 39-14-19 C343
Unit 294	E 1610994 31	E 15/9553 23	E 510937 49	LONG 40-62-23 7440
Mahogany	N 27/1968 60	W 272000 49	N 4343096.25	LAT 39-14-19 0822
Unit 214	C 1811003 13	E. 1579/62 05	£ 510940.16	LONG 49-57-23 6128
Mary Jane	N 271973.60	N 272004 20	14 43 43267 73	LAT 59-14-19 1901
Lines 166	E 1811011.96	E 15/95/0 87	6 510942 82	LONG 4050 Z3 5018
Mary June	W.271978 21	N 272012.02	N 43430921	LAT 30-14-12 STIKE
tion be	C 161100078	6.1579679.09	E 510945 48	CONG -80 52-31 #10#
Hunter	N 271963 GE	N. 273017 63	N 4343273 ED	LAT 35-14-15 3235
Unit 294	E. 1811029 60	£ 1579399 51	E 510948 14	COMG 40-52-23-2993
Mary Jane	14.271967.73	4 272322 34	N 4343272 17	LAT IB 14 19 37 St
Unit 294	E 1611038 42	£ 1679597 33	E 510967.81	LONG 40-52-23 1881

API#1706699 API#1706700 API#1706701 API#1706705

APPROVED WVDEP OOG 2/24/2015

SHEET INDEX

OI - COVER SHEET

02 - CONSTRUCTION AND EAS CONTROL NOTES

DR - EXISTING CONDITIONS

D4 - OVERALL PLAN SHEET INDEX & VOLUMES

Q7 - EX. ACCESS ROAD PROPERS

OR - EX ACCESS ROAD SECTIONS

11-15 - CONSTRUCTION DETAILS

18 - EX ACCESS ROAD RECLAVATION PLAN

17 - WELL PAD RECLAMATION PLAN

18 - FIRM EXHIBIT

N 271992 45 N 277037 05 N 4343273 66 LAT 36 14 19 3211 6 1811047 24 E 1870801 14 E 81093 47 LONG -89-82 28 0788

API#1706702 API#1706703 API#1706704

API#1706708

S

EERI

ENGIN

Antero

WEBB SHEET COVER

JAMES



DATE: 11/05/2014 SCALE AS SHOWN SHEET I OF 18

LOCATION COORDINATES
EX ACCESS ROAD 'A' ENTHANCE
LATITUDE 30 2352221 LONGITUDE: -00 855471 (NAD 83)
N 434299 50 K 81348 35 (UTM ZONE 17 ME

EX ACCESS ROAD "B" ENTHANCE LATITUDE: 39 236204 LONGITUDE: -80.869132 (NAD 63) N 4343007.07 E 511294.30 (UTM ZONE 17 METERS)

CENTROID OF WELL PAD LATHTUDE 39.238599 LONGITUDE -63.873231 (NAD 83) N 4343282.34 E 510940.21 (UTM ZONE 17 MET

GENERAL DESCRIPTION
THE ACCESS ROADS A VILL FAD HAVE SEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF
INDIVIDUAL MARKELLUS SHARE GAS VILLS.

FLOODPLAIN NOTE.
THE STE IS LOCATED IN PLOODIGHE 'X' PER FEMA PLOOD NAPS #54017C0225C A
#64017C0205

MISS UTILITY STATEMENT
ANTING RESOURCES CONFORMED WILL NOTIFY WHIS UTILITY OF WEST VERGINA FOR THE LOCATING OF UTILITIES PROOF TO THE PROJECT DESCEN, TICKET FIRSTCREEP, DE ADDITION, MISS UTILITY WILL BE CONFACTED FROOD TO ANY OF ATTER AUTHTRIES FOR THE SPECIAL PROPERTY.

ENVIRONMENTAL NOTES

ENTERONMENTAL NOTES

TETLAND DELINEATIONS THE PERFORMED NOTABLES-DECEMBER, 2012, A SEPTEMBER, 2013 ST CAL
CONSULTANTS, ON. TO METER THE SITE FOR WATERS AND VERLAGOS THAT ARE MOST LEARLY WITHOUT
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LOCATION MAP AS PERFARED IT OF ENTERONMENTAL PROTECTION (WORD). THE SEPTEMBER AS, BUILD RESOURCE
LOCATION MAP AS PERFARED IT OF LIC CONSULTANTS, ISC AND QUARARIZES THE SECULTS OF THE PRED
DELINEATION, THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISOLUTIONAL DETERMINATION OF THE
LANGRADE LIBERT OF WATERS AND VETLANDS SHOULD MAY BE RECOLUTED IT THE CASE OF THE VYOLD. IT IS STROKELY RECOMMENDED THAT THE APPRICAMENTATION OF RESPONDED THE CONTRIBUTION OF THE PROPERTY OF THE DESIGNATION OF THE EDUCATION SHOPS ON THE SECURITY CONTRIBUTION OF THE PROPERTY OF T

GEOTECHNICAL NOTES

A SUBSULFACE INVESTIGATION OF THE PROFESSION SITE WAS PERFORMED BY GA. COVIY ENCINEERING, PLLC ON JANUARY OR, I.O., AL, I.O., B. 7), 2013 THE REPORT PERFORD BY GA. COVYY ENCINCERING, PLLC, DATED JANUARY 25, 2013, REFLECTS THE MEDILIES OF THE SUBSULFACE INVESTIGATION. THE INFORMATION AND RECOMMENSATIONS CONTAINED THE SUBSULFACE INVESTIGATION SEPONT BY GA. COVYY ENCINEERING, PLLC FOR ADDITIONAL DEPORTMENT.

ENGINEER/SURVEYOR.
RAVIUS ENGINEERING, DMC.
CHRUS E. EUMP, PE - PROJECT MANAGER/ENGINEER
OFFICE: (586) 662-4185 CELL: (540) 666-6747

ENVIRONMENTAL:
GAI CONSULTANTS, INC.
JASON A COOK — SENIOR ENVIRONMENTAL SPECIALIST
OFFICE: (304) 928-8100 CELL: (303) 709-8308

PROJECT CONTACTS

OPERATOR: ANTERO RESOURCES CORPORATION 035 WHITE GAXS HEVD. BRIDGEPORT, WY 26330

ELI WAGONER - ENVIRONMENTAL ENGINEER OFFICE (304) 842-4088 CELL (304) 476-9770

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CHARLES E. COMPTON, III - SURVEYING COCRDINATOR CELL (304) 712-6449

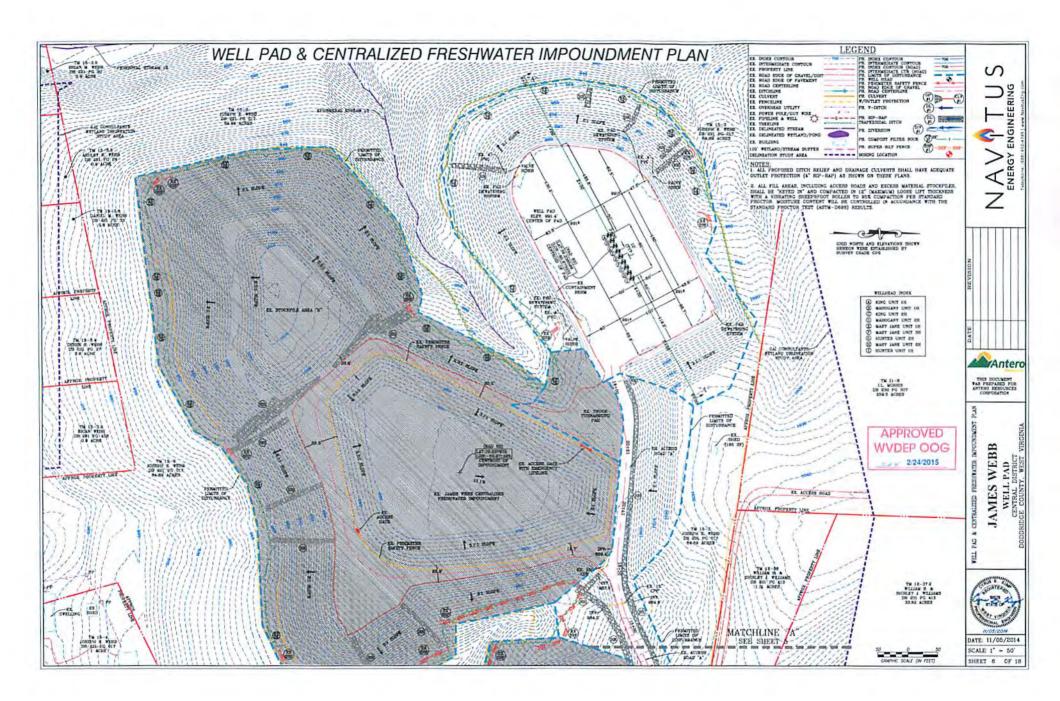
SOCHARD LYLES - LAND AGENT CELL: (770) 378-8633

RESTRICTIONS NOTES:

1 THEE SEA DO PRESENTAL STREAMS, PETLANCE, LAMIS, OR RESERVINES WITHIN 100 FEET OF

1 THEE WILL PAG AND LOO. THERE IS A POND ACASCENT TO THE EX ACCESS ROADS THAT WILL
REMAIN UNDUSTLINEED.

- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
- 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 25G FEET OF
- 5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHEN 625 FEET OF THE CENTER OF THE WELL PAD
- 6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.



LOCATION COORDINATES

ACCESS ROAD "A" ENTRANCE
LATITUDE: 39.236220 LONGITUDE: -80.868471 (NAD 83)
N 4342998.94 E 511351.40 (UTM ZONE 17 ME (UTM ZONE 17 METERS)

ACCESS ROAD "B" ENTRANCE LATITUDE: 39.236294 LONGITUDE: -60.869132 (NAD 83) N 4343007.07 E 511294.30 (UTM ZONE 17 METERS)

CENTROID OF IMPOUNDMENT (FWI #17-FWC-00017) LATITUDE: 39.237935 LONGITUDE: -80.871925 (NAD 83) N 4343188.84 E 511053.00 (UTM ZONE 17 METERS)

CENTROID OF WELL PAD

LATITUDE: 39.238599 LONGITUDE: -80.873231 (NAD 83)
N 4343262.34 E 510940.21 (UTM ZONE 17 ME (UTM ZONE 17 METERS)

GENERAL DESCRIPTION

THE ACCESS ROAD(S), WELL PAD, AND CENTRALIZED FRESHWATER IMPOUNDMENT HAVE BEEN CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTE

THE PROPOSED SITE IS LOCATED IN FLOODZONE "X" PER FEMA FLOOD MAPS #54017C0225C & #54017C0200C

ENVIRONMENTAL NOTES

ENVIRONMENTAL NOTES

WETLAND DELINEATIONS WERE PERFORMED NOVEMBER-DECEMBER, 2012, & SEPTEMBER, 2013 BY GAI
CONSULTANTS, INC. TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN
THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST
VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE SEPTEMBER 28, 2013 RESOURCE
LOCATION MAP WAS PREPARED BY GAI CONSULTANTS, INC AND SUMMARIZES THE RESULTS OF THE FIELD
DELINEATION. THE MAP DOES NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE
LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WYDEP.

GEOTECHNICAL NOTES

A SUBSURPACE INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY G.A. COVEY ENGINEERING, PLLC ON JANUARY 08, 10, 14, 15, & 17, 2013. THE REPORT PREPARED BY G.A. COVEY ENGINEERING, PLLC, DATED JANUARY 25, 2013, REFLECTS THE RESULTS OF THE SUBSURPACE INVESTIGATION. THE PROPARATION AND RECOMMENDATIONS CONTAINED IN THIS REPORT WAS USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE SUBSURPACE INVESTIGATION REPORT BY G.A. COVEY ENGINEERING, PLLC FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS:

OPERATOR:
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GEOTECHNICAL:
G.A. COVEY ENGINEERING
GARY A. COVEY - PROJECT ENGINEER
OFFICE: (304) 750-2203

- RESTRICTIONS NOTES:

 1. THERE ARE NO PERENNIAL STREAMS, WETLANDS, LAKES, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD. THERE IS A POND ADJACENT TO THE EX. ACCESS ROADS THAT WILL REMAIN UNDISTURBED.
- THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND 2
- 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.
- THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE
- THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

- ALL BMP'S MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE COMPLETE AND PERMANENTLY STABILIZED. MAINTENANCE MUST INCLUDE INSPECTION OF ALL EROSION AND SEDIMENT CONTROLS AFTER EACH RUNOFF EVENT IN EXCESS OF 0.5° AND ON A BIWEEKLY BASIS.
- THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION, ESTABLISHMENT OF FINAL STABILIZATION MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS PAVEMENT OR BUILDINGS. IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.
- ALL PERMANENT SEDIMENT CONTROL MEASURES CAN BE REMOVED AFTER THE SITE IS PERMANENTLY STABILIZED AND APPROVAL IS RECEIVED FROM THE WVDEP.
- ANY AREAS DISTURBED BY REMOVAL OF CONTROLS SHALL BE REPAIRED, STABILIZED, AND FERMANENTLY SEEDED.
- THE AS-BUILT INFORMATION SHOWN HEREON REFLECTS FIELD DATA COLLECTED RELATING TO THE FINAL GRADING OF THE DISTURBED AREA AS OF FEBRUARY 28, 2015. NAVITUS ENGINEERING IS NOT RESPONSIBLE FOR ANY CHANGES MADE TO THE SITE AFTER THE ABOVE MENTIONED DATES. 5.
- THE EXISTING CONTAINMENT BERM AROUND THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS
- THE EXISTING EGRESSES TO THE WELL PAD SHALL HAVE THE MOUNTABLE BERMS REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

JAMES WE WELL PA

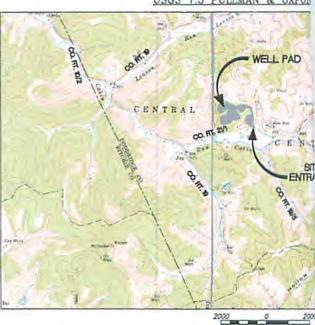
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AS-BUILT AND EROSION JAMES WE CONTROL IMPROVE

CENTRAL DISTRICT, DODDRIDGE COL CABIN RUN WATERS

USGS 7.5 PULLMAN & OXFOR

SCALE:



WEST VIRGINIA COUNTY MAP



(NOT TO SCALE)

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND
REFERENCE DIAGRAMS ATTACHED HERETO HAVE
BEEN PREPARED IN ACCORDANCE WITH THE
WEST VIRGINIA CODE OF STATE RULES, DIVISION
OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL
AND GAS \$55-4-21, \$22-6A, & CRS 35-8. THE
CENTRALIZED FRESHWATER IMPOUNDENT, WELL
PAD, AND ACCESS ROADS WERE CONSTRUCTED
IN NEAR CONFORMITY TO THE CONSTRUCTION
PLANS.

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NAJA TNƏI

& SEDIMENT

ENERGY ENGINEERING

Telephone: (888) 662-4185 | www.NavitusEng.com

DATE
REVISION

CORPORATION
AAA PREPARED FOR
THIS DOCUMENT

SHEET

WELL PAD
CENTRAL DISTRICT
DODDRIDGE COUNTY, WEST JAMES WEBB

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851291-41-95 TA

AT 39-14-19 2259

0871 91-41-9E TA

MOT & EZ-58-08- ENO.

ONG -80-93-53 9549 1051 91-M1-65 TA

8259 52-29-09- DNO

ONG -60-62-23, 7440

1998 EZ-Z9-09- DNO

E888 EZ-58-08- DNO.

AT 39-14-19:0822

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SHEET I OF 8 SCALE AS SHOWN

DATE: 06/30/2015

SHEEL INDEX

OI - COAER SHEEL

OS - OAEHVIT BIVN SHEEL INDEX & AOFOMES

03 - VCCESS HOYD VS-BOILT PLAN

LHESHMYLES INDONNDMENT VS-BUILT PLAN
O4 - WELL PAD & CENTRALED

07 - CENTRALIZED FRESHWATER IMPOUNDMENT AS-BUILT SECTIONS

00-00 - VCCESS BOYD VS-BRITL BEOLITES

08 - MEIT DVD VS-BOILT SECTIONS

Impacts to Joseph E. Webb TM 15-2 Total Site IAMES WEBB LIMITS OF DISTURBANCE AREA (AC)

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N 272008 20

N 272003 49

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Well Pad Elevation

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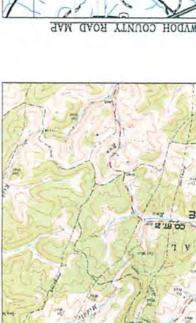
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