

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

PERMIT MODIFICATION APPROVAL

January 13, 2016

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit Modification Approval for API Number 1706665, Well #: MCGILL UNIT 1H

Top Hole, Lateral, Pad Extension, WMP

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith Assistant Chief of Permitting

WW-6B (04/15)

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

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

Well Operator: Antero Resources Corpor	494488557	017 -Doddrig		West Union 7.5'	
	Operator ID	County	District	Quadrangle	
2) Operator's Well Number: McGill Unit 1H	Well Pa	d Name: Existin	ig Vogt Pa	d	
3) Farm Name/Surface Owner: Vogt, Gregory L. & C	Carolyn S. Public Roa	nd Access: CR3	36		
4) Elevation, current ground: 1112' I	Elevation, proposed	post-construction	on: 1112'		
5) Well Type (a) Gas X Oil	Und	erground Storag	e		
Other					
(b)If Gas Shallow X	Deep				
Horizontal X					
6) Existing Pad: Yes or No Yes	1 771 1	- - 15			
 Proposed Target Formation(s), Depth(s), Anti- Marcellus Shale: 6,800' TVD, Anticipated Thick 	a partial control of the first that a second of	distance and the second			
8) Proposed Total Vertical Depth: 6,800' TVD					
9) Formation at Total Vertical Depth: Marcella	us Shale				
10) Proposed Total Measured Depth: 18800' I	MD				
11) Proposed Horizontal Leg Length: 10771					
12) Approximate Fresh Water Strata Depths:	155'				
13) Method to Determine Fresh Water Depths:	Seaborn Unit 1H	(API #47-017-0	6169) on s	same pad.	
14) Approximate Saltwater Depths: 1581', 187	2'				
15) Approximate Coal Seam Depths: None Re	ported				
16) Approximate Depth to Possible Void (coal r	nine, karst, other):	None anticipate	ed		
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No _X					
(a) If Yes, provide Mine Info: Name:					
Depth:			RECE	WED Gas	
Seam:		0	flice of O	il and out	
Owner:			MON :	2 4 2015	

API NO. 47- 017 - 06665 MOO

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

API# 47-017-06665 SHL & PAD DESIGN MODIFICATION

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#	300'	300'	CTS, 417 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#	18800'	18800'	4777 Cu. Ft.
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	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"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

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

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

API# 47-017-06665 SHL & PAD DESIGN MODIFICATION

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."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 11.43 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 4.38 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

Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat

Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51 Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

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

WW-9 (9/13)

API Number 47 - 017 - 06665 Map
Operator's Well No. McGill Unit 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name	Antero Resources Corporation	OP Code 494488557	
. –	10)_Tributary of Wilhelm Run	Quadrangle West Union 7.5'	
1112	County Doddridge	District Central	
Do you anticipate Will a pit be used	e using more than 5,000 bbls of water to complete No No	te the proposed well work? Yes No	
		nd Flowback Fluids and Cuttings No If so, what ml.? 60 mil (existing)	_
	d Disposal Method For Treated Pit Wastes:		
	Reuse (at API Number Future permitted v Off Site Disposal (Supply form WW-9	Number_well locations when applicable. API# will be provided on Form WR-34 9 for disposal location) (Meadowfill Landfill Permit #SWF-1)) 032-98)
Will closed loop	system be used? If so, describe: Yes		
Drilling medium	anticipated for this well (vertical and horizontal))? Air, freshwater, oil based, etc. Dust/Stiff Foam, Production - Water Based Mur.	d
-If oil ba	ased, what type? Synthetic, petroleum, etc. N/A		
Additives to be u	sed in drilling medium? Please See Attachment		
Drill cuttings disp	posal method? Leave in pit, landfill, removed of	ffsite, etc. Stored in tanks, removed offsite and taken to landfill.	
-If left in	n pit and plan to solidify what medium will be us	sed? (cement, lime, sawdust) N/A	
-Landfil	I or offsite name/permit number? Meadowfill Land	fill (Permit #SWF-1032-98)	
on August 1, 200 provisions of the law or regulation I certify application form obtaining the inf	5, by the Office of Oil and Gas of the West Virg permit are enforceable by law. Violations of a can lead to enforcement action. under penalty of law that I have personally e and all attachments thereto and that, based	miditions of the GENERAL WATER POLLUTION PERM ginia Department of Environmental Protection. I understated any term or condition of the general permit and/or other examined and am familiar with the information submitted on my inquiry of those individuals immediately response, accurate, and complete. I am aware that there are try of fine or imprisonment.	and that the applicable ted on this consible for significant
Company Officia	1 Signature	- Figure 1	nd Gas
	1 (Typed Name) Cole Kilstrom	MARA QUA	2015
Company Officia	l Title_ Environmental Representative	MY NOTARY OF COUBLIC	Sweet of
Subscribed and sv	worn before me this 23 day of N	Notary Public	Protection
My commission e	expires JUN 21, 2018		

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

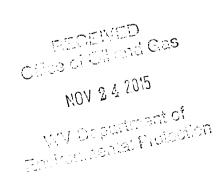
Calcium Hydroxide - Lime

11. LD-9

Polyether Polyol - Drilling Fluid Defoamer

12. Mil Mica

Hydro-Biotite Mica – LCM



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

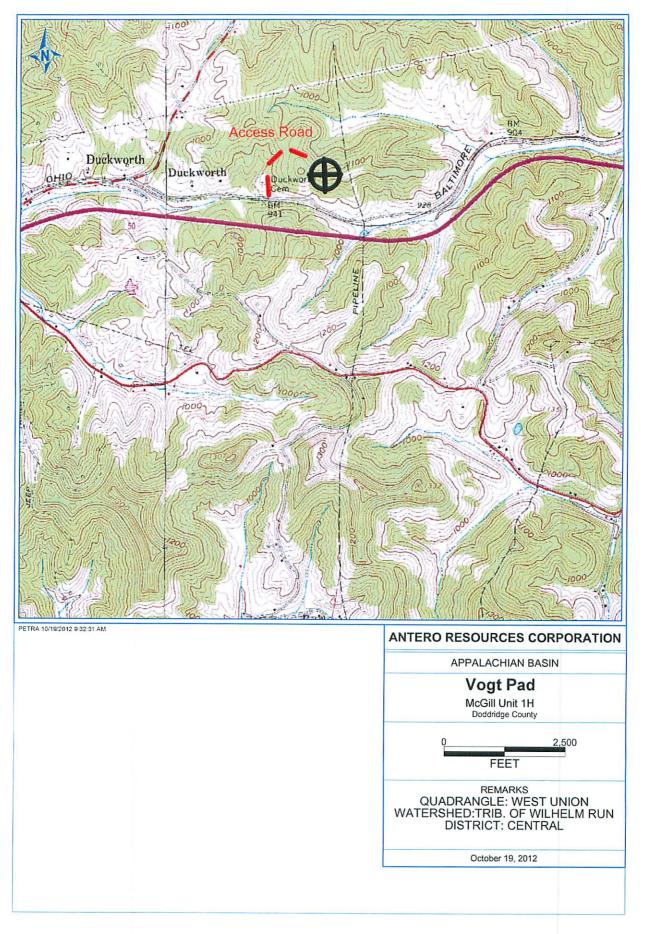
31. Milstarch

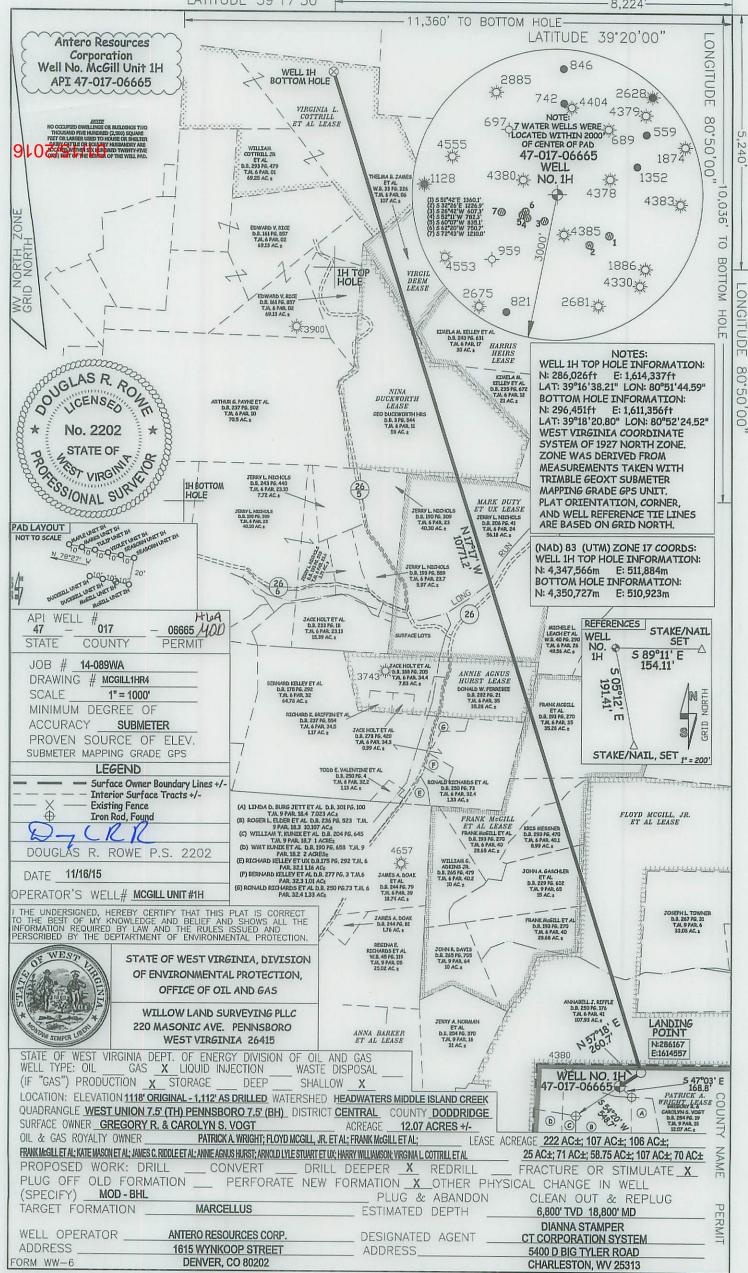
Starch – Fluid Loss Reducer For Water Based Muds

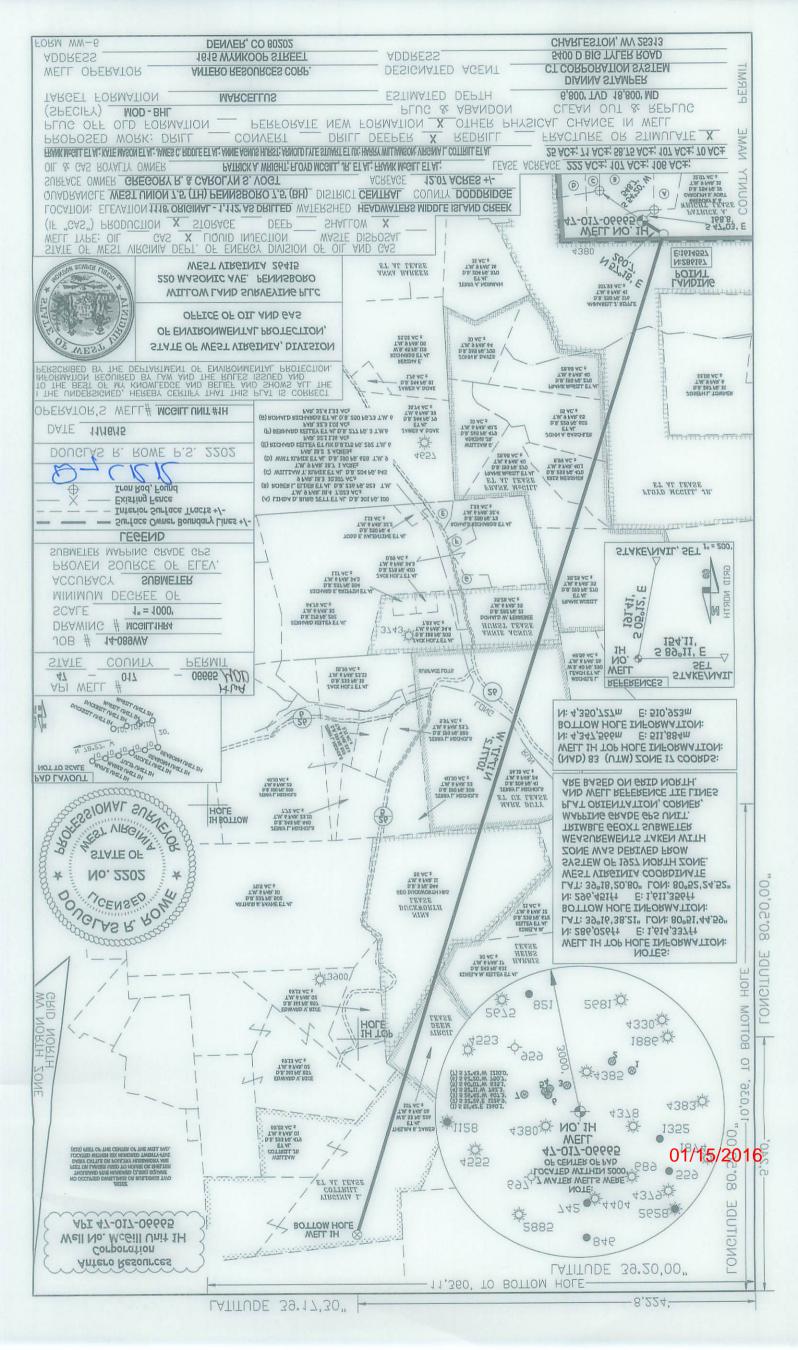
32. Mil-Lube

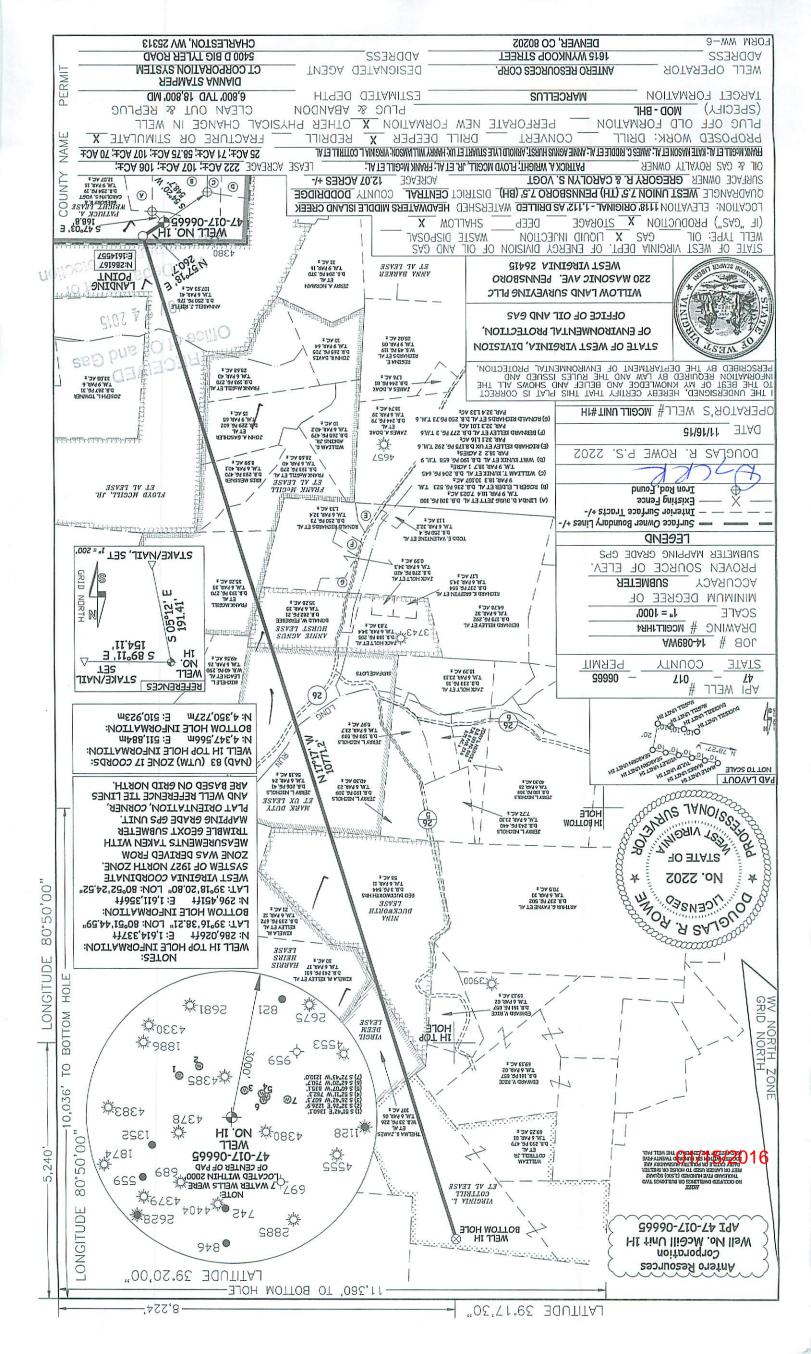
Drilling Fluid Lubricant

CTION 08 - 1 CTION









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
Patrick A. Wright Lease			
Patrick A. Wright	Key Oil Company	1/8	0179/0260
Key Oil Company	Antero Resources Appalachian Corp.	*Partial Assignment of Oil	0256/0285
1		and Gas Leases	X-1
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Floyd McGill, Jr., et al Lease			
Floyd McGill, Jr., et ux	Key Oil Company	1/8	0181/0563
Key Oil Company	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	0256/0285
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Frank McGill, et al Lease			
Frank McGill, et al	Petroleum Services, Inc.	1/8	0115/0563
Petroleum Services, Inc.	Magnum Oil Corporation	Assignment	0118/0555
Magnum Oil Corporation	Eneger Corporation	Assignment	0146/0664
Eneger Corporation	Basin Project, Inc.	Assignment	0153/0281
Basin Project, Inc.	James A. Eliopulos	Assignment	0252/0382
James A. Eliopulos d/b/a Alexander Production	Antero Resources Appalachian Corporation	*Partial Assignment of Oil	0267/0506
Company, Inc. Antero Resources Appalachian Corporation	Antero Resources Corporation	and Gas Leases Name Change	Exhibit 1
Antero Resources Apparatinum corporation	Antero resources corporation	Nume change	EATHOR I
Annie Agnes Hurst Lease		- 10	
Annie Agnes Hurst	Devonian Appalachian Co.	1/8	0157/0620
Devonian Appalachian Co.	New Freedom Energy, LLC	Assignment	0200/0563
New Freedom Energy, LLC	Antero Resources Corporation	Assignment	0336/0127
Mark Duty, et ux Lease			
Mark Duty, et ux	Key Oil Company	1/8	0185/0200
Key Oil Company	Antero Resources Appalachian Corporation	*Partial Assignment of Oil & Gas Leases	0276/0523
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change VED	Exhibit 1
Aller Duelouseth Lane		and G	a
Nina Duckworth Lease Nina Duckworth	Antero Resources Corporation	1/8+ MOV 2 4 2015	0323/0604
Harris Heirs Lease		V Cartment of	Figure 1
Harris Heirs	Deconian Appalachian Corporation	1/8 Drot	0161/0198
Devonian Appalachian Co., Inc., et al	New Freedom Energy, LLC	,8	0203/0346
New Freedom Energy, LLC	Antero Resources Appalachian Corporation	Agreement Assignment	0336/0127

^{*}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.

McGill Unit 1H

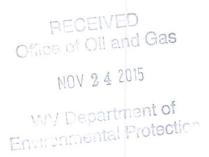
API# 47-017-06665 SHL & PAD DESIGN MODIFICATION

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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:

		Book/Page
Petroleum Development Corporation PDC Mountaineer, LLC Antero Resources Appalachian Corporation	1/8 Assignment Assignment	0123/0211 0240/0118 0278/0607 Exhibit 1
	PDC Mountaineer, LLC	PDC Mountaineer, LLC Assignment Antero Resources Appalachian Corporation Assignment



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API# 47-017-06665 SHL & PAD DESIGN MODIFICATION

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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Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	Grantor, Lessor, etc.	Granice, Lessee, etc.	Royalty	DOUK/1 age
Virginia L. Cottrill, et al Lease				
	Virginia L. Cottrill, et vir	J & J Enterprises, Inc.	1/8	0141/0216
	J & J Enterprises, Inc.	Eastern American Energy Corporation	Confirmatory Deed	0159/0139
	Eastern American Energy Corporation	Energy Corporation of America	*Partial Assignment	0240/0498
		100 / 100 P -	of Oil & Gas Leases	
	Eastern Corporation of America	Antero Resources Appalachian Corporation	*Partial Assignment	t 0272/0307

Antero Resources Corporation

Antero Resources Appalachian Corporation

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

Office of Oil and Gas

of Oil & Gas Leases
Name Change

Exhibit 1

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 in of

Well Operator:	Antero Resources Corporation TONING THE TEST			
	Kevin Kilstrom			
Its:	VP of Production		V	

^{*}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.

FORM WW-6A1 **EXHIBIT 1**



JUN 1 0 2013

Natalic 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 Med . stamped copy returned to you) FEE: \$25:00



IN THE OFFICE OF Corporations Division SECRETARY OF STATE Pake: (304)558-8381

Website: www.wvsos.com
E-mail: business@wvsos.com

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

AMENDED CERTIFICATE

OF AUTHORITY.

		inging Code, the undersigned corporation hereby fliorly 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 <u>Certified Conv of Name Change</u> 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	_	100
5.	Other amendments: (attach additional pages if necessary)		_	J
			_	,
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 other may avoid having to return or reject the	h.	
	Alvyn A. Schopp	(303) 367-7310		
7.	Contact Name Signature information (See below *Important I.	Phone Number Legal Notice Reparding Signature):		
	Print Name of Signer: Abyn A. Schopp	Title/Capsoity: Authorized Person	IED and Ga	s
	Signature: 42 Hochoff	Date: June 10, 2013	4 2015	٠.
Any o th	periant Leval Notice Repartities Standard: Per West Virgin person who signs a document he or she known is fable in any e secretary of state for filing is guilty of a misdomesnor and, sand dollars or conflued in the county or regional juli not mor	ols Code <u>831D-1-129</u> . Penalty for signing false document, y uniterial respect and knows that the document is to be deliver upon conviction thereof, shall be fined not more than one	etment	of- ectio
enn,	CF-4 Issued by the Office	of the Accretary of State - Revised de	75 :	

WY013 - 0446/2013 Walters Klunyr Oallas

WW-6A (9-13)

API# 47-017-06665 SHL & PAD DESIGN MODIFICATION API NO. 47-017 - 08685 LLOTO

OPERATOR WELL NO. McGill Unit 1H Well Pad Name: Existing Vogt Pad

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: 11/23/2016 Date Permit Application Filed: 11/23/2015 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 ☐ PERSONAL ✓ METHOD OF DELIVERY THAT REQUIRES A **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: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: PLEASE SEE ATTACHMENT Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: COAL OPERATOR Name: Name: NO DECLARATIONS ON RECORD WITH COUNTY Address: Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: PLEASE SEE ATTACHMENT WATER PURVEYOR(s)/OWNER(s) OF WATER WELL Address: SPRING OR OTHER WATER SUPPLY SOURCE Name: PLEASE SEE ATTACHMENT AND CHEEN GOOD Address: Name: Address: OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Val Page Messalt of Name: Name: ______Address: _____ *Please attach additional forms if necessary

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

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

API NO. 47-017 - 06885 MOD
OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

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

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

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.

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

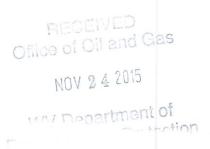
Permit Denial or Condition

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

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

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

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



WW-6A (8-13)

API# 47-017-06665 SHL & PAD DESIGN MODIFICATION API NO. 47-017

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

Notice is hereby given by:

Well Operator: Antero Resources Go

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 depprivacyofficer@wv.gov.

KARA QUACKENBUSH NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20144028297 MY COMMISSION EXPIRES JULY 21, 2018 Subscribed and sworn before me this 23 day of November 2015

Notary Public

My Commission Expires

WW-6A Notice of Application Attachment (VOGT PAD):

List of Surface Owner(s) with Proposed Disturbance associated with Vogt Well Pad:

WELL PAD – This owner was notified of all well work permit applications, and has executed signed Surface Use Agreements with Antero Resources Corporation.

TM 9 PCL 18

Owner:

Gregory R. & Carolyn S. Vogt

Address:

29 Lois Lane

Greenwood, WV 26415

TM 9 PCL 18.3

Owner:
Address:

Steven W. & Vicky L. Kelley

328 Kelley Mountain Road Greenwood, WV 26415

ROAD AND/OR OTHER DISTURBANCE – These owners has executed a signed Agreement with Antero Resources Corporation. However, they were only notified if their tract is overlying the oil and gas leasehold being developed by the proposed well work as outlined in WV Code 22-6A-10(b)(2).

TM 9 PCL 16

Owner:

Jerry & Michael Norman

Address: 1798 Duckworth Rd.

Greenwood, WV 26415

Owner:

Jerry & Michael Norman

(2nd Address)

Address:

1750 Duckworth Rd.

Greenwood, WV 26415

TM 6 PCL 41

Owner:

Annabell J. Riffle & Troy D.

Cunningham

Address:

1538 Duckworth Rd.

Greenwood, WV 26415

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WW-6A Notice of Application Attachment (VOGT PAD):

List of Water Source Owners - Vogt Well Pad:

WATER SOURCE OWNERS:

Owner: Kevin J. & Doreen G. Harney

(1 source: 1360')

Address: One Bank Plaza

Wheeling, WV 26003

Owner: Gregory R. & Carolyn S. Vogt

(2 sources: 1227', 751')

Address: 29 Lois Lane

Greenwood, WV 26415

Owner: Roger L. & Susan K. Elder

(1 source: 607')

Address: PO Box 569752

Dallas, TX 75356

Owner: WMT & Sharon S. Kunik

(2 sources: 782', 835')

Address: 1412 Duckworth Rd.

Pennsboro, WV 26415

Owner: Annabell J. Riffle

(1 source: 1210')

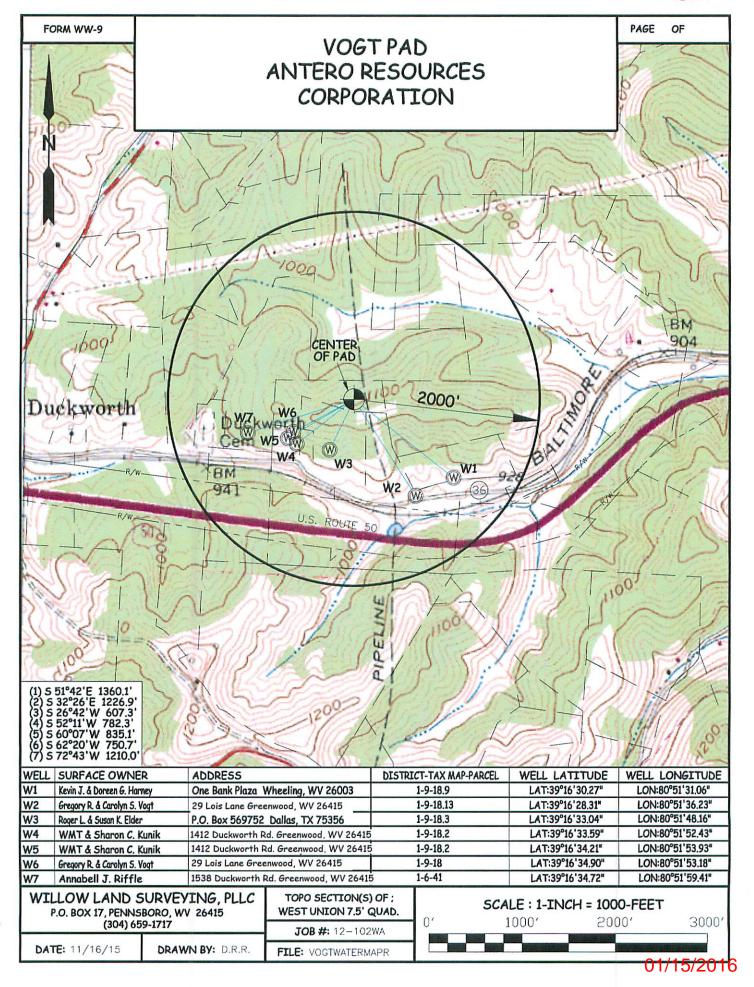
Address: 1538 Duckworth Rd.

Greenwood, WV 26415

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01/15/2016



WW-6A5 (1/12)

Operator Well No. McGill Unit 1H

API# 47-017-06665 SHL & PAD DESIGN MODIFICATION

STATE OF WEST VIRGINIA

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

Delivery method pursuant to West Virginia Code § 22-6A-16(c) © CERTIFIED MAIL RETURN RECEIPT REQUESTED DELIVERY Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified man return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The informatio required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well, and (3) A proposed surface use and compensation agreement containing an offer of compensation for horizontal well, and (3) A proposed surface use and compensation agreement endough and provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice). Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice). Notice is hereby given: UTM NAD 83 Easting: UTM NAD 83 Easting: UTM NAD 83 Easting: UTM NAD 83 Easting: Obdedidge UTM NAD 83 Easting: UTM NAD 83 Easting: Obdedidge UTM NAD 83 Easting: UTM NAD 83 Easting: Obdedidge UTM NAD 84 Easting: Obdedidge UTM NAD 85 Easting: Obdedidge UTM NAD 85 Easting: Obdedidge			equirement: notice shall be provide : 11/23/2015 Date Perm	ed no later than the filing it Application Filed : 11/1		application.
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mai return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation in drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation in with the drilling of a horizontal well on the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice. Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: Steven W. & Vicky L. Kelley Name: Steven W. & Vicky L. Kelley Address: 328 Kelley Mountain Road Greenwood, WV 28415 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(e), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Union 7.5 UTM NAD 83 County: Doddridge UTM NAD 84 County: Doddridge UTM NAD 85 County: Doddridge UTM NAD 85 County: Doddridge UTM NAD 86 County: Doddridge UTM NAD 87 County: Doddridge UTM NAD 87 County: Doddridge UTM NAD 88 County: County: Doddridge Orgenerally used farm name: Vog. Greg	Delive	ry meth	od pursuant to West Virginia Cod	le § 22-6A-16(c)		
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mare turn receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice): Notice is hereby provided to the SURFACE OWNER(s) (at the address listed in the records of the sheriff at the time of notice): Name: Gregory R. & Carolyn S. Vogt Address: 328 Kelley Mountain Road Greenwoood, WV 28415 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), this notice shall include: On the tract of land as follows: State: West Virginia Code § 22-6A-16(c), this notice shall include: On the tract of land as follows: West Union 7.5' Generally used farm name: Vog. Geogory R. & Carolyn S. Watershed: Tributary of Wilhelm Run This Notice Shall Include: Pursuant to West						
return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with th drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice. **Notice is hereby provided to the SURFACE OWNER(s)** (at the address listed in the records of the sheriff at the time of notice): **Name: Greenwood, NV 26415** **Name: Greenwood, WV 26415** **Name: Greenwood, WV 26415** **Notice is hereby given:** **Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: **State:** **West Virginia** **Countral** **Dublic Road Access:** **Greenwood, WV 26415** **Dublic Road Access:** **Greenwood, WV 26416** **Dublic Road Access:** **Greenwood, WV 26416** **Tibulary of Wilhelm Run* **This Notice Shall Include:** **Public Road Access:** **Total central provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information require to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to		RETURI	N RECEIPT REQUESTED	DELIVERY		
(at the address listed in the records of the sheriff at the time of notice): Name: Gregory R. & Carolyn S. Vogt Address: 29 Lois Lane Greenwoood, WV 26415 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Doddridge UTM NAD 83 Easting: 511884m Northing: Doddridge District: Central Public Road Access: CR 36 Quadrangle: West Union 7.5' Generally used farm name: Vogt. Gregory R. & Carolyn S. Watershed: Tributary of Wilhelm Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information require to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to th surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: Address: 1615 Wynkoop Street Denver, CO 80202	return the pla require drilling damag (d) The	receipt reanned op ed to be ped to be ped to the ped to the es to the enotices	equested or hand delivery, give the seration. The notice required by the provided by subsection (b), section to prizontal well; and (3) A proposed surface affected by oil and gas oper	surface owner whose lands is subsection shall include on of this article to a surface use and compensations to the extent the design of the surface.	d will be used for de: (1) A copy ace owner whos sation agreement amages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter.
(at the address listed in the records of the sheriff at the time of notice): Name: Gregory R. & Carolyn S. Vogt Address: 29 Lois Lane Greenwoood, WV 26415 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Doddridge District: Central Public Road Access: CR 36 Quadrangle: West Union 7.5' Watershed: Tributary of Withelm Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information require to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to th surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protectio 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 Operator: Address: 1615 Wynkoop Street Denver, CO 80202	Notice	is hereb	ov provided to the SURFACE OW	NER(s)		
Address: 29 Lois Lane Greenwoood, WV 26415 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Doddridge UTM NAD 83 Reating: Stating: Fasting: Northing: Address: Mest Virginia County: Doddridge District: Central Public Road Access: Generally used farm name: West Union 7.5' Generally used farm name: Wogt. Gregory R. & Carolyn S. Tributary of Wilhelm Run This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information require to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to th surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additiona information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protectio 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 Operator: Antero Resources Corporation Address: Address: 1615 Wynkoop Street Denver, CO 80202 Denve	(at the	address !	listed in the records of the sheriff at			
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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.

WV Department of

API NO. 47-017 - 06665 METO OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I,	es of a Notice of A 1) through on the tract of land UTM NAD Public Roa	pplication, an App , including to as follows: D 83 Easting: Northing: d Access:	blication for a Well Work Permit on Form he erosion and sediment control plan, if 511884m
I further state that I have no objection to the planned w issued on those materials.	ork described in the		
*Please check the box that applies		FOR EXECUTI	ON BY A NATURAL PERSON
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☐ SURFACE OWNER (Road and/or Other Distr	iroance)	Date:	
☐ SURFACE OWNER (Impoundments/Pits)			ON BY A CORPORATION, ETC.
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☐ COAL OPERATOR		By:	
☐ WATER PURVEYOR		Cionatura	RECEIVED
☐ OPERATOR OF ANY NATURAL GAS STO	RAGE FIELD	Date:	Office of Oil and Gas

Oil and Gas Privacy Notice:

NOV 2 4 2015

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.

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

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required, and	the well plat, all for proposed well work on the	tract of land	as follows:	r
State:	West Virginia		Facting	511884m
County:	Doddridge	UTM NAI	Northing:	4347566m
District:	Central	Public Roa	d Access:	CR 36
Quadrangle:	West Union 7.5'	Generally	used farm name:	Vogt, Gregory R. & Carolyn S.
Watershed:	Tributary of Wilhelm Run			
issued on thos	that I have no objection to the planned work doe materials.	escribed in the		I have no objection to a permit being ION BY A NATURAL PERSON
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□ COAL O	PERATOR		Its:	
□ WATER	PURVEYOR		Signature:	
□ OPERAT	TOR OF ANY NATURAL GAS STORAC	GE FIELD	Date:	

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NOV 2 4 2015

WW Department of Environmental Projection 01/15/2016

- 06665 MU) OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

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

VOLUNTARY STATEMENT OF NO OBJECTION

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VOLUNTARY STATEMENT OF NO OBJECTION , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows: State: West Virginia Easting: 511884m UTM NAD 83 County: Doddridge Northing: 4347566m District: Central Public Road Access: CR 36 Quadrangle: West Union 7.5 Generally used farm name: Vogt, Gregory R. & Carolyn S. Watershed: Tributary of Wilhelm Run I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials. *Please check the box that applies FOR EXECUTION BY A NATURAL PERSON ☐ SURFACE OWNER Signature: Print Name: ☐ SURFACE OWNER (Road and/or Other Disturbance) ☐ SURFACE OWNER (Impoundments/Pits) FOR EXECUTION BY A CORPORATION, ETC. □ COAL OWNER OR LESSEE Company: By: ___ □ COAL OPERATOR □ WATER PURVEYOR Signature: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD Date:

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NOV 2 4 2015

OPERATOR WELL NO. McGill Unit 1H

Well Pad Name: Existing Vogt Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

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District:		Public Road	Northing:	4347566m CR 36
Quadrangle:	West Union 7.5'			Vogt, Gregory R. & Carolyn S.
Watershed:	Tributary of Wilhelm Run			
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Oil and Gas Privacy Notice:

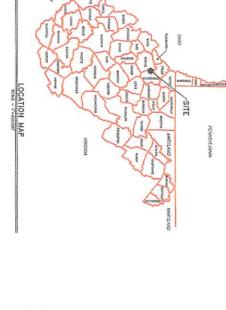
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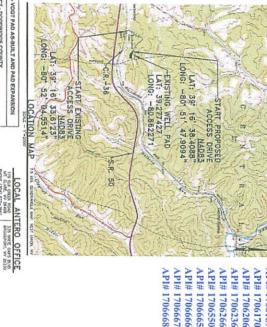
> WV Department of Environmental Pro1/15/2016

AS-BUILT & EXPANDED PAD CONSTRUCTION DRAWINGS FOR

VOGT WELL PAD EXTENSION

CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA







YOU DIG! Dial 811 or 800.245,4848

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LIST OF DRAWINGS

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GENERAL NOTES

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EXISTING AND PROPOSED WELL COORDINATES

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VOGT WELL PAD EXTENSION



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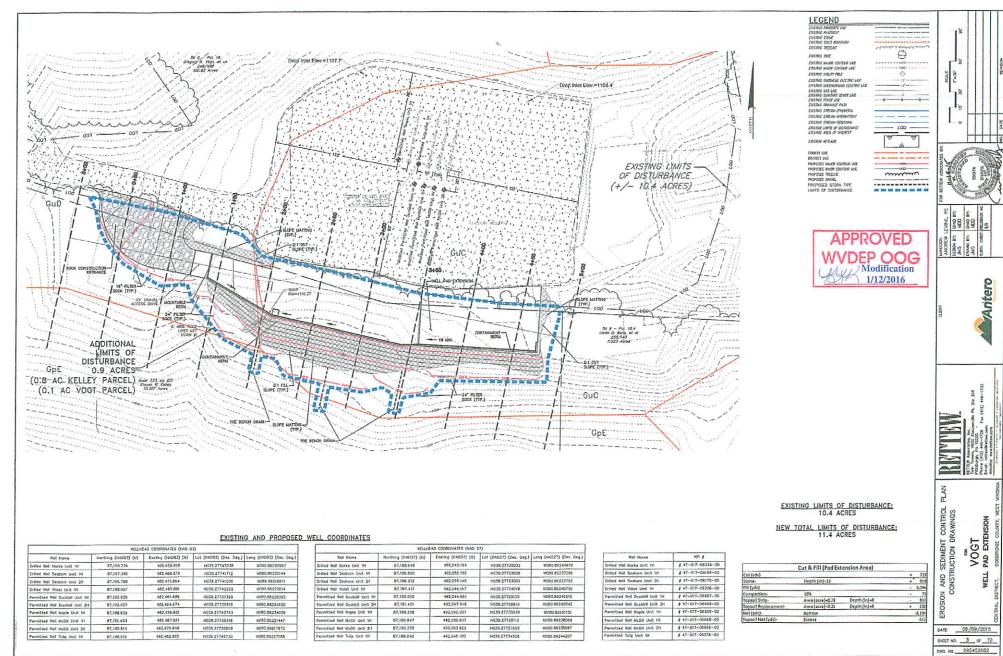


WVDEP OOG
Modification
1/12/2016

APPROVED

NOT FOR CONSTRUCTION/NOT FOR BIDDING

COVER SHEET CONSTRUCTION DRAWINGS



























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RETEX AMERICAN, INC. THE TRANSP. 4055 Stadenida Pt. Withdraph A. 12505 Phone (412) 446-1728 Fox (41) Phone (412) 446-1728 Fox (41) Website www.estim.com	RETTEM

VOGT PAD EXTENSION	COVER SHEET
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VOGT	COVER SHEET STRUCTION DRAWINGS
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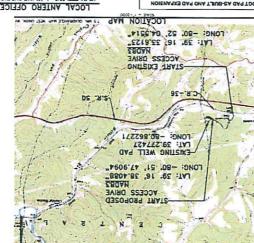
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CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

VOCT WELL PAD EXTENSION

FOR

AS-BUILT & EXPANDED PAD CONSTRUCTION DRAWINGS

NI, CLAR, WY 28408 9ROOCPORT, WY 26130 PHONE (304) 622-3842	IDGE COUNTY
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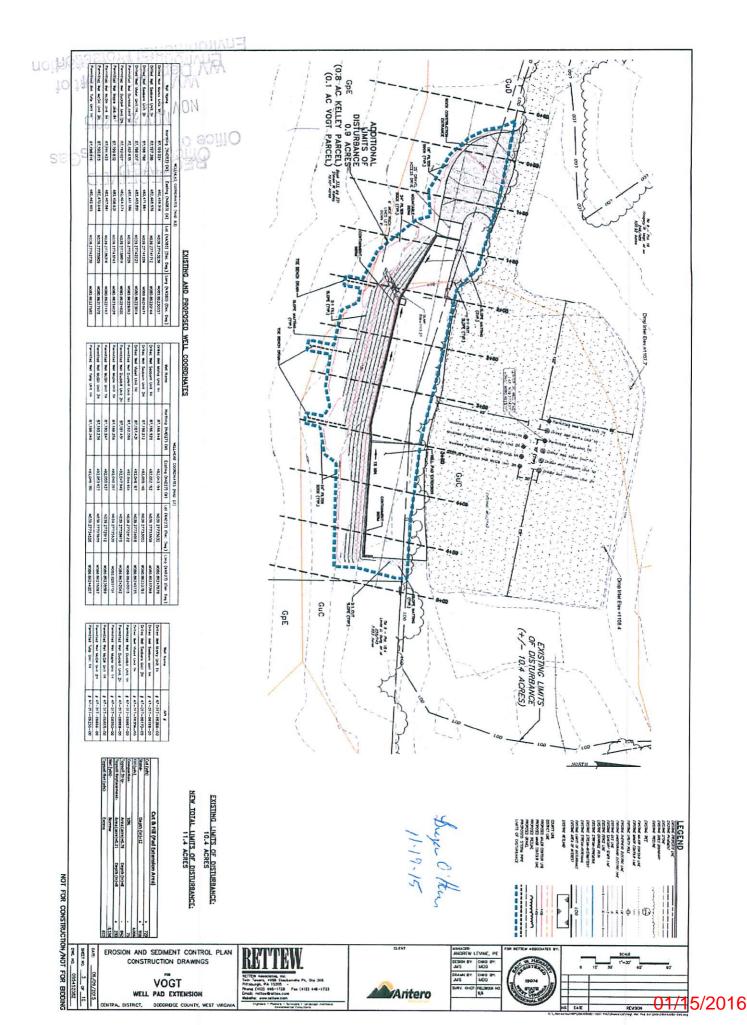
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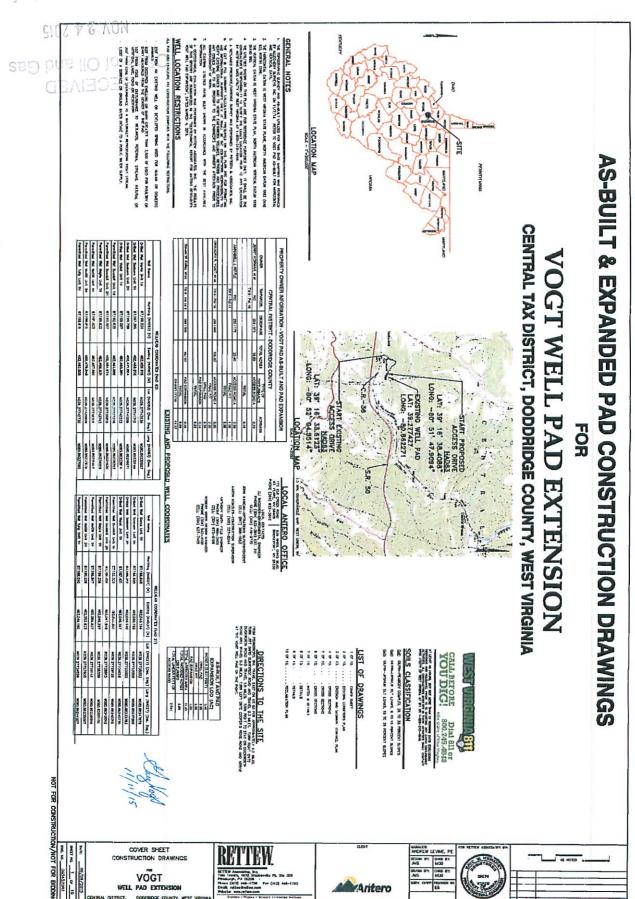


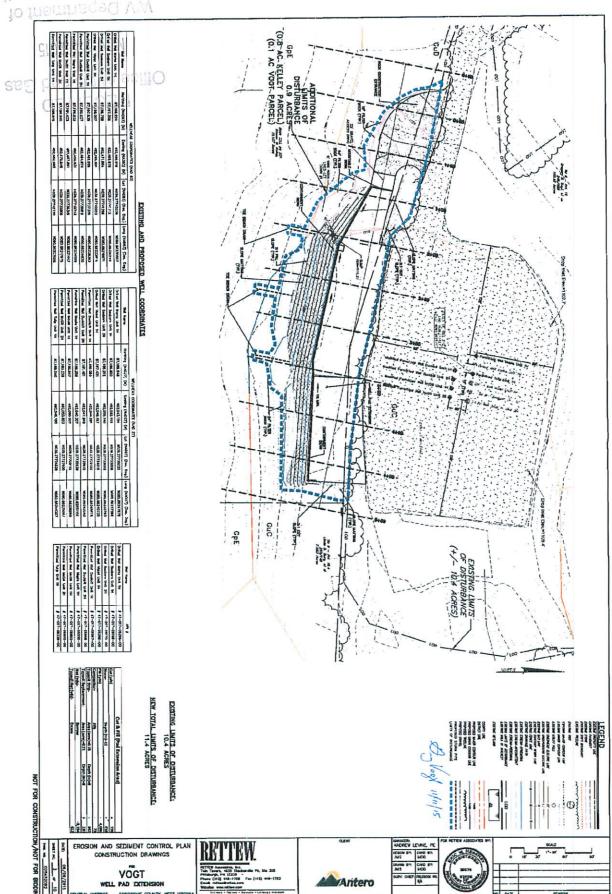


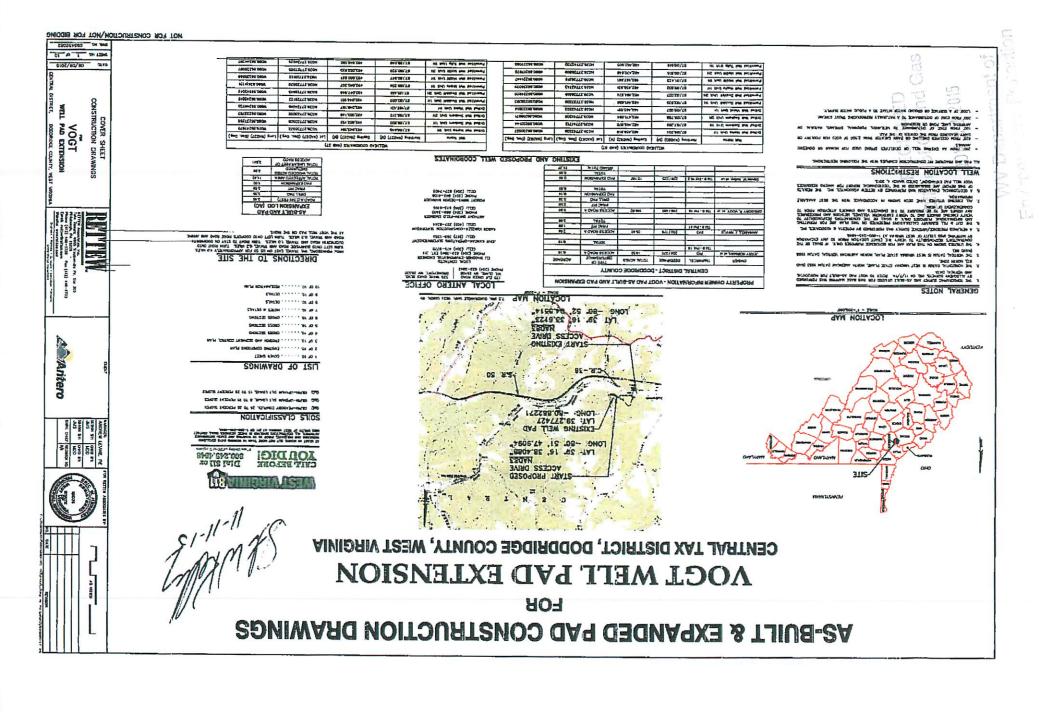


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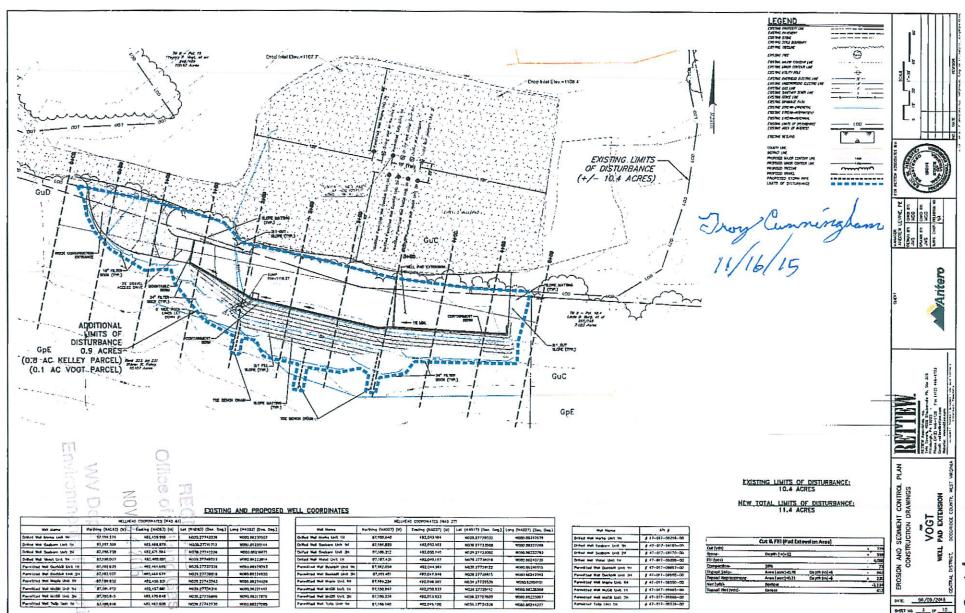
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