

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 1706666, Well #: MCGILL UNIT 2H

Top Hole, Pad Extension, WMP, Lateral

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,

for Gene Smith

Assistant Chief of Permitting

Laura L. adkins

Office of Oil and Gas

API NO. 47-017 - 06666 MOD

OPERATOR WELL NO. McGill Unit 2H

Well Pad Name: Existing Vogt Pad

API# 47-017-06666 SHL & PAD DESIGN MODIFICATION

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

1) Well Operator:	Antero Res	ources Corporat	494488557	017 -Doddrig	Central	West Union 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's Well	Number: Mc	Gill Unit 2H	Well Pac	Name: Existing	ng Vogt Pa	ad
3) Farm Name/Surf	ace Owner:	Vogt, Gregory L. & Car	rolyn S. Public Roa	d Access: CR	36	
4) Elevation, currer	nt ground:	1112' El	evation, proposed	post-construction	on: 1112'	
5) Well Type (a)	Gas X	Oil	Unde	erground Storag	ge	
Oth	ner					
(b)	If Gas Sha	llow X	Deep			
	Hor	izontal X				
6) Existing Pad: Ye	s or No Yes					
7) Proposed Target Marcellus Shale:			ipated Thickness a ess- 60 feet, Associ			
8) Proposed Total V	ertical Deptl	1: 6,800' TVD				
9) Formation at Tot	al Vertical D	epth: Marcellus	Shale			
10) Proposed Total	Measured De	epth: 19200' M	D			
11) Proposed Horiz	ontal Leg Le	ngth: 11013'	-11			
12) Approximate Fi	resh Water St	rata Depths:	155'			
13) Method to Dete	rmine Fresh	Water Depths: S	Seaborn Unit 1H (API #47-017-0	06169) on	same pad.
14) Approximate Sa	altwater Dept	hs: 1581', 1872'				
15) Approximate C	oal Seam De _l	oths: None Repo	orted			
16) Approximate D	epth to Possi	ole Void (coal mi	ne, karst, other):	None anticipat	ed	
17) Does Proposed directly overlying o			ns Yes	NoNo	X	_A S
(a) If Yes, provide	Mine Info:	Name:		RECE	M Suga	
		Depth:		Office	وازي ٨٠	
		Seam:		MO,	1 6 "	orotection
		Owner:		ie i	Depermi	orotecu
				MA	UMENIO.	
				- WIII		

API NO. 47- 017 _ 06666

OPERATOR WELL NO. McGill Unit 2H

Well Pad Name: Existing Vogt Pad

API# 47-017-06666 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#	2475'	2475'	CTS, 1008 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	19200'	19200'	4880 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	RECEIVED AND AND
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NOV 2 4 2015 WV Department of Environmental Protection

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WW-6B (10/14) API NO. 47- 017 - 06666

OPERATOR WELL NO. McGill Unit 2H

Well Pad Name: Existing Vogt Pad

API# 47-017-06666 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.

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WW-9 (9/13)

API Number 47 -	017	_ 06666	
Operator's	Well No	McGill Unit 2H	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator NameAr	ntero Resources Corporation	OP Code 494488557
Watershed (HUC 10	Tributary of Wilhelm Run	Quadrangle West Union 7.5'
Elevation 1112	County_Doddridge	District Central
Do you anticipate us Will a pit be used?		
	TZ	and Flowback Fluids and Cuttings
	netic liner be used in the pit? Yes	No If so, what ml.? 60 mil (existing)
Proposed D	isposal Method For Treated Pit Wastes:	
_	Land Application Underground Injection (UIC Permi	Number)
_		d well locations when applicable. API# will be provided on Form WR-34
_	O.1 (F. 1.)	7-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)
Will closed loop syst	em be used? If so, describe: Yes	
Drilling medium anti	cipated for this well (vertical and horizontal	Surface - Air/Freshwater, intermediate- al)? Air, freshwater, oil based, etc. Dust/Stiff Foam, Production - Water Based Mud
-If oil based	, what type? Synthetic, petroleum, etc. N/	A
Additives to be used	in drilling medium? Please See Attachment	
		offsite, etc. Stored in tanks, removed offsite and taken to landfill.
	and plan to solidify what medium will be	
	offsite name/permit number? Meadowfill Lar	
on August 1, 2005, b provisions of the per law or regulation can I certify un application form an obtaining the inform	y the Office of Oil and Gas of the West Vi mit are enforceable by law. Violations of lead to enforcement action. der penalty of law that I have personally d all attachments thereto and that, based	conditions of the GENERAL WATER POLLUTION PERMIT issued reginia Department of Environmental Protection. I understand that the fany term or condition of the general permit and/or other applicable examined and am familiar with the information submitted on this don my inquiry of those individuals immediately responsible for rue, accurate, and complete. I am aware that there are significant lity of fine or imprisonment.
Company Official Sig	gnature	KAP
	Typed Name) Cole Kilstrom	KARA QUACKENBUSH NOTARY PUBLIC NOTARY OF COLOR
	tle Environmental Representative	STATE OF COLORADO MY COMMISSION EXPIRES THE
Subscribed and swon		November , 20 15 Notary Public
My commission expi	res_TMly 21, 2018	W/V Department of Environments, Prot 01/15/201
		Environmenta Protocido/201

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

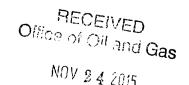
Calcium Hydroxide - Lime

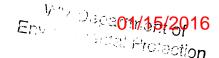
11. LD-9

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

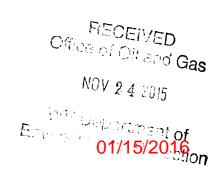
Viscosifier For Water-Based Muds

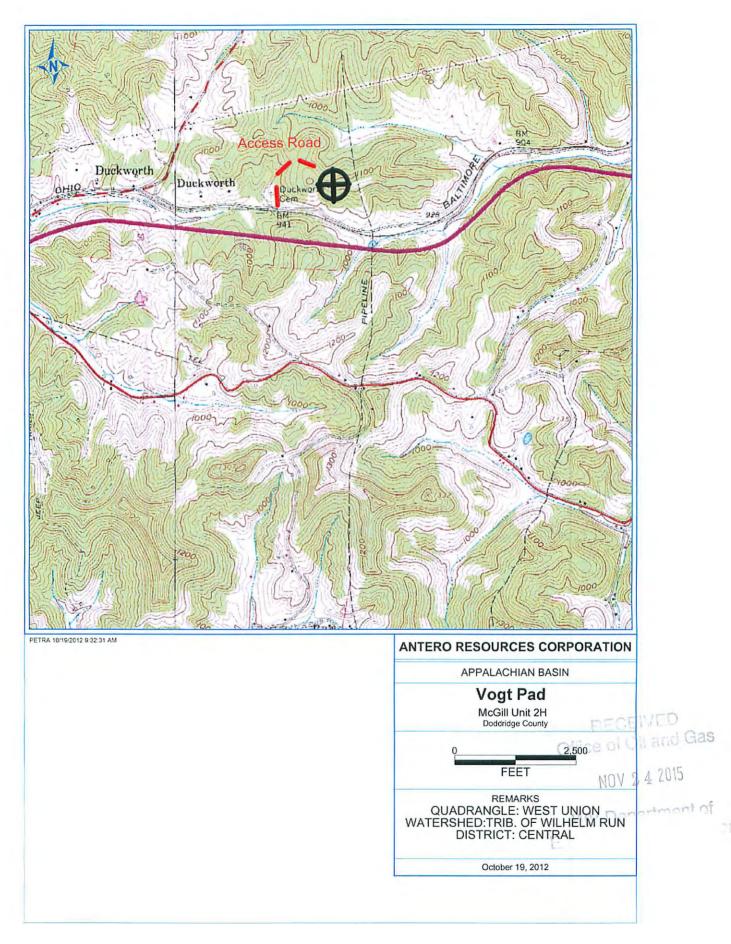
31. Milstarch

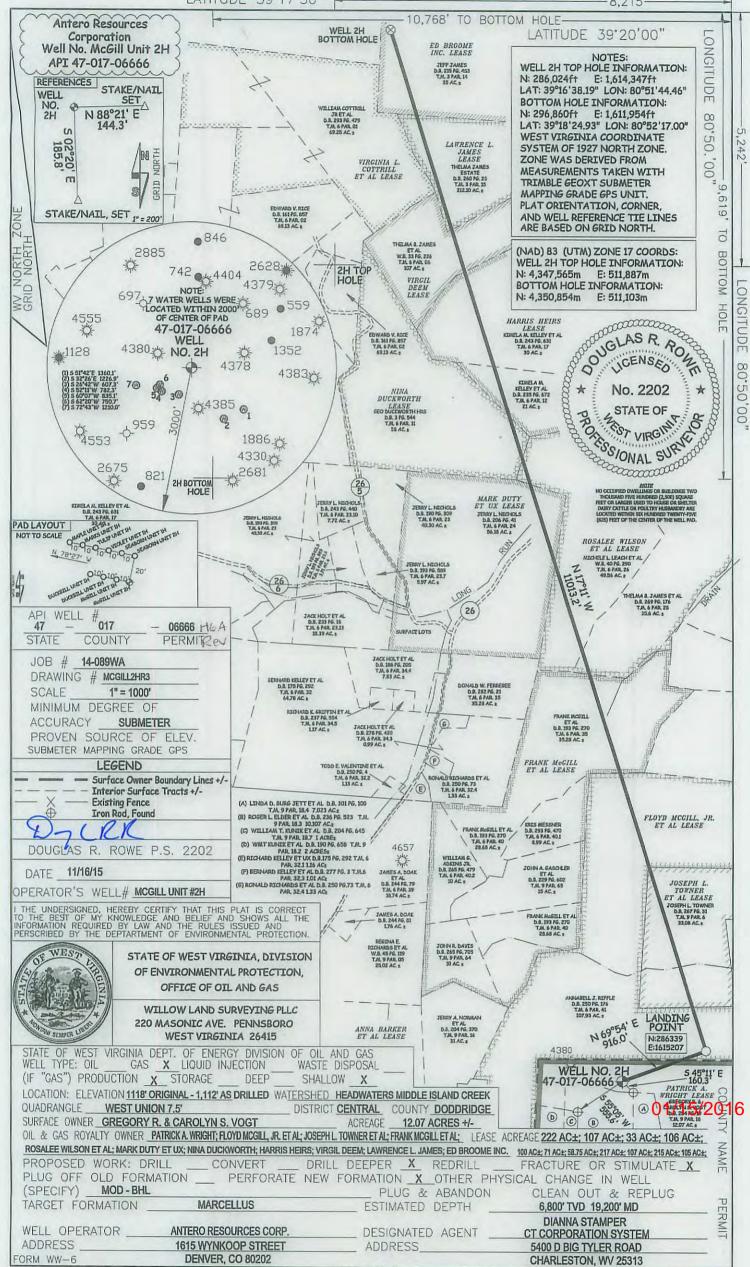
Starch - Fluid Loss Reducer For Water Based Muds

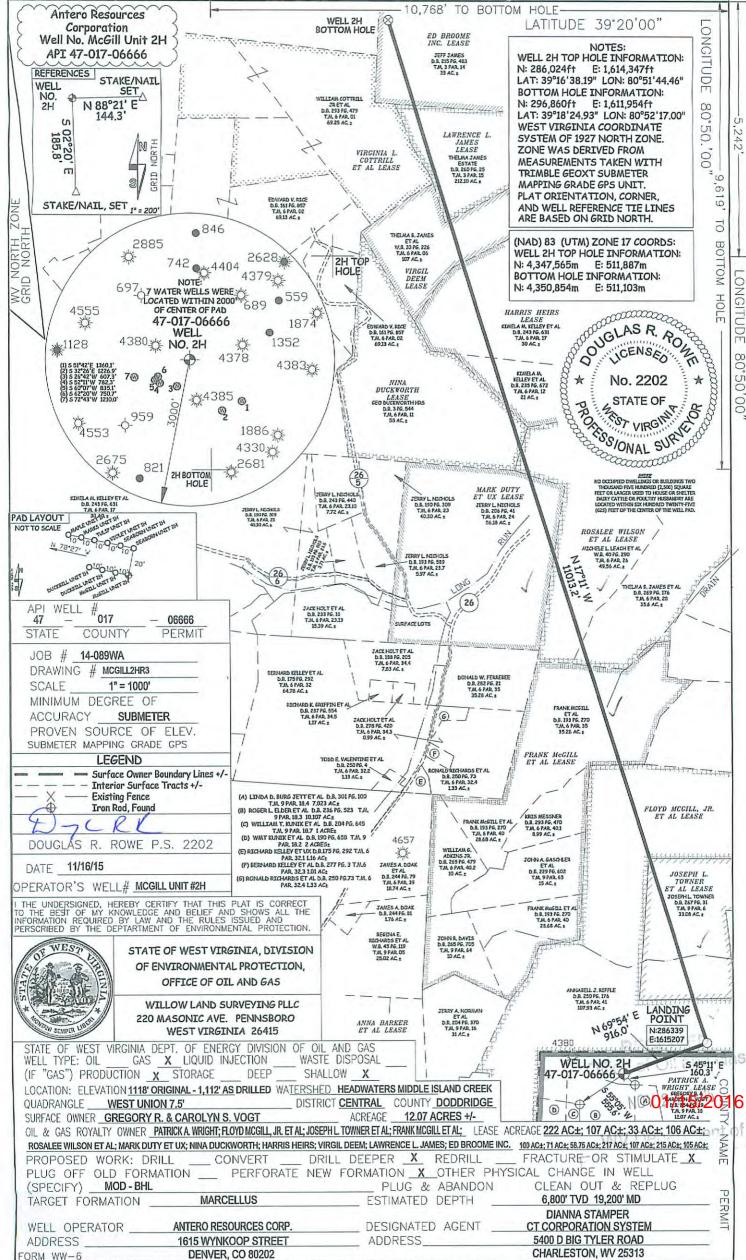
32. Mil-Lube

Drilling Fluid Lubricant









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 and Gas Leases	0256/0285
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Floyd McGill, Jr., et al Lease		2.02	STAN IN A TO
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
Joseph L. Towner, et ux Lease			
Joseph L. Towner, et ux	Key Oil Company	1/8	0179/0035
Key Oil Company	Antero Resources Corporation	*Partial Assignment of Oil & 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.		and Gas Leases	
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Rosalee Wilson, et al Lease		PECEIVED	
Rosalee Wilson	Antero Resources Appalachian Corporation	1/8+	0266/0708
New Freedom Energy, LLC	Antero Resources Corporation	Of Assignment and Gas	0336/0127
Mark Duty, et ux Lease	was was a series	Korolit F. a - core	
Mark Duty, et ux	Key Oil Company	N1/8 2 4 2015	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 Environmental resolution	Exhibit 1
Nina Duckworth Lease		TOTOLIOIT	
Nina Duckworth	Antero Resources Corporation	1/8+	0323/0604
Harris Heirs Lease		470	2.7.45.0
Harris Heirs	Devonian Appalachian Corporation	1/8	0161/0198
Devonian Appalachian Corporation	New Freedom Energy, LLC	Deed, Assignment & Agreement	0203/0346
New Freedom Energy, LLC	Antero Resources Corporation	Assignment	0336/0127

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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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
Virgil Deem Lease			
Virgil Deem	Petroleum Development Corporation	1/8	0123/0211
Petroleum Development Corporation	PDC Mountaineer, LLC	Assignment	0240/0118
PDC Mountaineer, LLC	Antero Resources Appalachian Corporation	Assignment	0278/0607
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
Lawrence L. James, et ux			
Lawrence L. James, et ux	Key Oil Company	1/8	0169/0644
Key Oil Company	Antero Resources Appalachian Corporation	*Partial Assignment of Oil	0256/0285
		& Gas Leases	
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
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 of Oil	0240/0498
Same Solo III a a sala a		& Gas Leases	Section Section
Energy Corporation of America	Antero Resources Appalachian Corporation	*Partial Assignment of Oil	0272/0307
		& Gas Leases	Comment to
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1



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*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

Operator's Well No. McGill Unit 2H API# 47-017-06666 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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- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Ed Broome, Inc. Lease	Alice and the second		-	
	Ed Broome, Inc.	Antero Resources Appalachian Corporation	1/8+	0272/0307
	Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1

*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Well Operator: Antero Resources Corporation

By: Kevin Kilstrom

VP of Production

VP of Production

Environmental Protection

Page 1 of ____

FORM WW-6A1 **EXHIBIT 1**



Natalie B. Tennant. Scoretary 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: 825:00



Penney Barker, Manager
IN THE OFFICE OF Corporations Division
SECRETARY OF STATE Park: (304)558-8000
Penney Barker, Manager
Corporation Provided Pr

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

APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY

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

			-
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 Copy 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	in
5.	Other amendments: (attach additional pages if necessary)	· · · · · · · · · · · · · · · · · · ·	J
	1		
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 abor may avoid having to return or reject the	
6.	the filing, listing a contact person and phone nun	This is optional, however, if there is a problem with abor may avoid having to return or reject the (303) 357-7310	
6.	the filing, listing a contact person and phone nun document.)	nber may avoid having to return or reject the	
	the filing, listing a contact person and phone nun document.) Alvyn A. Schopp	(303) 357-7310 Phone Number	•
7.	the filing, listing a contact person and phone nun document.) Alvyn A. Schopp Contact Name	(303) 357-7310 Phone Number	
	the filing, listing a contact person and phone nundocument.) Alvyn A. Schopp Contact Name Signature information (See below *Important I	(303) 357-7310 Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person Date: June 10, 2013	9
	the filing, listing a contact person and phone nundocument.) Alvyn A. Schopp Contact Name Signature information (See below *Immortant I Print Name of Signer: Alyyn A. Schopp	(303) 357-7310 Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person	55
7.	the filing, listing a contact person and phone nundocument.) Alvyn A. Schopp Contact Name Signature information (See below *Innortant I Print Name of Signer: Abyn A. Schopp Signature: Abyn A. Schopp	(303) 357-7310 Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person Date: June 10, 2013 Plant Code 5310-1-129. Penalty for signing false decument. Innerial respect and knows that the document is to be delivered upon conviction thereof, shall be fixed not more than one	
7.	the filing, listing a contact person and phone nundocument.) Alvyn A. Schopp Contact Name Signature information (See below *Innortant I Print Name of Signer: Abyn A. Schopp Signature: Abyn A. Schopp Signature: For West Virgin person who signs a document he or she knows in false in any to secretary of state for filing is guilty of a misdomosnor and,	(303) 357-7310 Phone Number Legal Notice Regarding Signature): Title/Capacity: Authorized Person Date: June 10, 2013 Phone Signature Title/Capacity: Authorized Person Date: June 10, 2013 Phone Date: June 10, 2013	nf .

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WW-6A (9-13)

API# 47-017-06666 SHL & PAD DESIGN MODIFICATION API NO. 47-017 - 06686 μοτο

OPERATOR WELL NO. McGill Unit 2H

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: 11/23/2015 Date Permit Application Filed: 11/23/2015 Notice of: ☐ CERTIFICATE OF APPROVAL FOR THE PERMIT FOR ANY 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: NO DECLARATIONS ON RECORD WITH COUNTY Name: PLEASE SEE ATTACHMENT Address: Address: Name: COAL OPERATOR Address: Name: NO DECLARATIONS ON RECORD WITH COUNTY (1) Address: SURFACE OWNER(s) (Road and/or Other Disturbance) Name: PLEASE SEE ATTACHMENT WATER PURVEYOR(s)/OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE 200 Address: Name: PLEASE SEE ATTACHMENT Address: _____ Address: OPERATOR OF ANY NATURAL GASSTORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: Address: *Please attach additional forms if necessary

OPERATOR WELL NO. McGill Unit 2H

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

OPERATOR WELL NO. McGill Unit 2H

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) [Patall reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

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

WW-6A (8-13)

API# 47-017-06666 SHL & PAD DESIGN MODIFICATION API NO. 47-017 - 0666

OPERATOR WELL NO. McGill Unit 2H
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.

Office of Oil and Gas NOV 2 4 2015

WW Department of Environmental Protection

WW-6A (8-13)

API# 47-017-06666 SHL & PAD DESIGN MODIFICATION API NO. 47-017

OPERATOR WELL NO. McGill Unit 2H

Well Pad Name: Existing Vogt Pad

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 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 3 day of NOVEWIDER

Notary Public

My Commission Expires

MAN Department of Env. Junificantal Protection

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:

Steven W. & Vicky L. Kelley

Address:

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 1798 Duckworth Rd.

Address:

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

Office of Od and Gas

NGV 2 4 2015

Type of the protection

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')

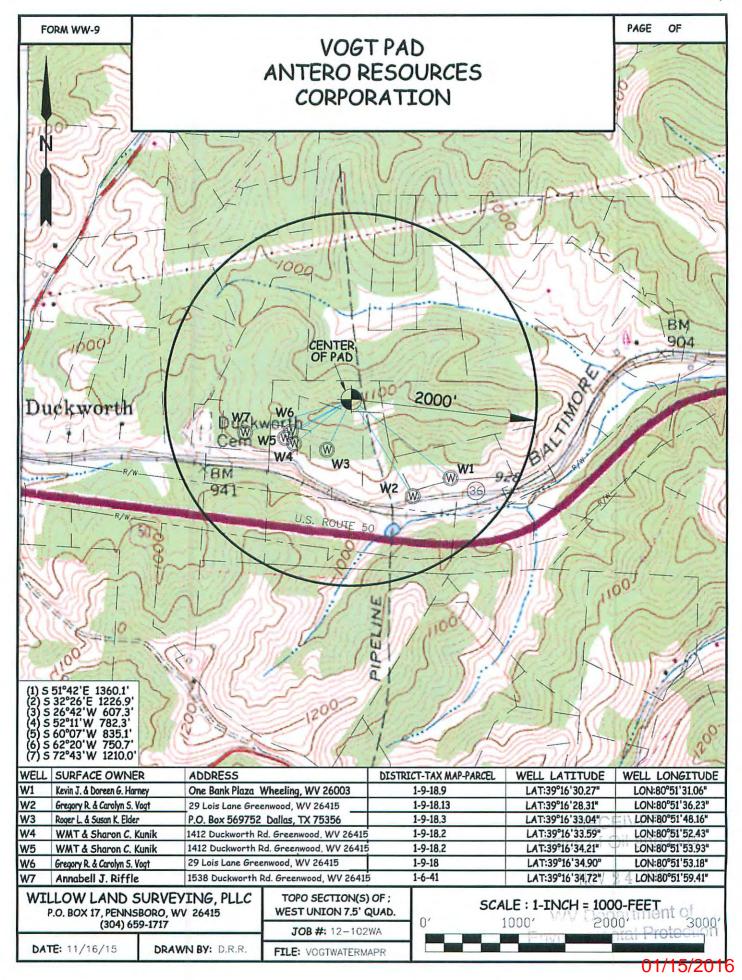
Address: 1538 Duckworth Rd.

Greenwood, WV 26415

RECEIVED
Office of Office and Gas

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WW-6A5 (1/12) Operator Well No. McGill Unit 2H

API# 47-017-06666 SHL & PAD DESIGN MODIFICATION

STATE OF WEST VIRGINIA

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

Notice Time Date of Noti	Requirement: notice shall be provided ce: 11/23/2015 Date Permit	no later than the filing Application Filed: 11/2		application.
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(c)		
■ CERTI	FIED MAIL	HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned or required to be drilling of a damages to the	t requested or hand delivery, give the sur- operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed su- he surface affected by oil and gas operation	rface owner whose land subsection shall include of this article to a surfar rface use and compensions to the extent the da	I will be used for de: (1) A copy ace owner whose ation agreement amages are com	cation, an operator shall, by certified mail 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, sted in the records of the sheriff at the time
	eby provided to the SURFACE OWN			
	s listed in the records of the sheriff at the			
	R. & Carolyn S. Vogt		Steven W. & Vicky L.	
Address: 29 L	enwoood, WV 26415	Address	Greenwood, WV	
	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia	e of drilling a horizonta	l well on the tra	
County:	Doddridge	UTM NAD 8	Northing:	4347565m
District:	Central	Public Road	Access:	CR 36
Quadrangle:	West Union 7.5'	Generally use	ed farm name:	Vogt, Gregory R. & Carolyn S.
Watershed:	Tributary of Wilhelm Run			
Pursuant to V to be provide horizontal we surface affect information 1	ed by W. Va. Code § 22-6A-10(b) to a ell; and (3) A proposed surface use and ted by oil and gas operations to the ext related to horizontal drilling may be ob- located at 601 57 th Street, SE, Cha	a surface owner whose compensation agreement ent the damages are contained from the Secret	e land will be un nt containing ar ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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.

Office of Oil and

NOV 2 4 2

API NO. 47-017 - 06666 LOO OPERATOR WELL NO. McGill Unit 2H 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 , 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: 511887m UTM NAD 83 County: Doddridge Northing: 4347565m 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. FOR EXECUTION BY A NATURAL PERSON *Please check the box that applies ☐ 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: NOV 9 4 By: ☐ COAL OPERATOR Its: □ WATER PURVEYOR

Oil and Gas Privacy Notice:

□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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

N API NO. 47-017 - 06666 MOTO OPERATOR WELL NO. McGil Unit 2H 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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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.

OPERATOR WELL NO. McGil Unit 2H

Well Pad Name: Existing Vogt Pad

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STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS RY 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 , 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: 511887m UTM NAD 83 County: Doddridge Northing: 4347565m District: Public Road Access: Central 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: Date: □ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, 2s 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.

API NO. 47-017 - 06666 LOD
OPERATOR WELL NO. McGill Unit 2H

Well Pad Name: Existing Vogt Pad

SIOZ F & NON

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.

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VOLUNTARY STATEMENT OF NO OBJECTION

WW-6A and	ted above, and that I have received copies of a attachments consisting of pages one (1) through the well plat, all for proposed well work on the twest Virginia	igh	, including	the erosion and sediment control plan, i
County:	Doddridge		Northing:	4347565m
District:	Central	Public Road Acc		CR 36
Quadrangle: Watershed:	West Union 7.5' Tributary of Wilhelm Run	Generally used fi	arm name:	Vogl, Gregory R. & Carolyn S.
*Please check	the box that applies			ION BY A NATURAL PERSON
*Please check				
	CE OWNER (Road and/or Other Disturbance	e) Sign Print Date	t Name: Tra	y Cumingham
□ SURFAC	CE OWNER (Impoundments/Pits)		.,	ION BY A CORPORATION, ETC.
☐ COAL O	WNER OR LESSEE	Com	pany:	
□ COAL O	PERATOR	Its:		
□ WATER	PURVEYOR	Sign	ature:	
□ OPERAT	TOR OF ANY NATURAL GAS STORAGE		:	

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.

AS-BUILT & EXPANDED PAD CONSTRUCTION DRAWINGS FOR

VOGT WELL PAD EXTENSION

CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA





START PROPOSED NAD83 LAT: 391 16' 38.4088" LONG: -801 51' 47,9094" -EXISTING WELL PAD LAT: 39.277427 LONG: -80.852271 C.R. +36 START EXISTING ACCESS DRIVE NAD83 LAT: 39 16 33,6123" LONG: -80" 52" 04.5514" LOCATION MAP

- 2. THE HORIZONIAL DATIN IS WEST WINDHIA STATE PLANE, NORTH AMERICAN DATIN 1983 (NAD 83), MORTH ZONG.
- 3. THE VETTICAL DATAS IS NEST VAIGNAS STATE PLAN, NORTH AMERICAN VARICAL DATAS 1988 (NAVO S).
- (MAND SE).

 A DEL UTILIZES SHOWN ON THE FLAM ARE FOR RELEMENCE PARPOSES CHAT. IT SHALL BE THE CHARACTER'S RESPONSEBULTY TO MERKY THE EACH LOCATION PRICE TO ANY EXCANATION PROVIDED THE SHALL BE THE PROPERTY DISTRICT FROM
- A MILLINGS PRINCELY PRINCE SURVEY IN ON PRIVIDING SO THOUGHTS A SCHOOL AS PRIC CLI & THE BRANANT CALCULATIONS PRESENTED BY THE TANK AND FOR PRINCE THE MOD REPORTATIONAL PURPOSES DAY, IT SHALL BE THE CONTRACTION RESPONSIBILITY TO MOUTE PRINCES CRACES AND TO WHAT MARRINGERY VALUES, LEGICOS AND PROCEDURES. ANY STRUCK AND TO KNOW.

 CONDITIONED TO KNOW.
- 7. ALL EXISTING UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH THE BEST
- E. A CEDIEDRICAL EVALUATION WAS PERFORADE BY RETIEM ASSOCIATES, SIG. THE RESULTS OF THIS REPORT ARE SLAMARIZED IN THE "EQUIEDRICAL REPORT FOR AVERO RESOURCES VOST VILL FOR DEVALUACION, DATED MATCH 4, 2013.

WELL LOCATION RESTRICTIONS

ALL PAG AND FRACTURE BY CONSTRUCTION COMPLEX WITH THE POLLOWING RESTRICTIONS.

- 250' FROM AN EXISTING WELL ON DEWLOPED SPIRING USED FOR HUMAN ON DOMESTIC
- 825' FROM OCCUPIED DWELLING OR BARN GREATER THAN 2,500 SF USED FOR POULTRY OR
- 100' FROM EDGE OF ENTERDANCE TO METLANDS, PEREMINAL STREAMS, NATURAL OR ANTIFICIAL LAWE, POND ON RESERVOIR.
- NOT FROM STOR OF DISTRIBUTE TO A SANDRALLY REPRODUCING THING STREAM
- LOCC' OF A SURFACE OR GROUND WATER INTAKE TO A PUBLIC MATER SUPPLY

PROPERTY OW	NER INFORM	MATION - VO	GT PAD AS-BU	ILT AND PAD EX	PANSION
	CENTRAL	DISTRICT -	DODDRIDGE C	COUNTY	
DWNER	THAPARCEL	DEEDPAGE	TOTAL ACRES	TYPE OF DISTURBANCE	ACREAGE
JEHRY NORMAN, et al	F/O	204 / 370	04.91	ACCEST ROAD A	0.10
	TM 9 - Pct, 19				
				TOTAL	0.10
ANNABELL J. RIFFEE	PVO	250 / 176	25.40	ACCESS ROAD A	2.66
	IM 6 - Pcl 41			FRAC PIT	1.03
				TOTAL	3.63
CHECOTY IL VOOT, et ux	TM 9 - PU 18	2487408	100.92	ACCESS NOAD A	0.80
				FRACPIT	2.50
				DOST DAD	3.56

LOCAL ANTERO OFFICE 175 ELK CREEK ROAD | 535 WHIE CAKS BLVD. MT. CLARE, WY 26409 | BRIDGEPORT, WY 26330 PHONE (304) 622-3842 LDCAL CONTACTS: ELI WACCHER-DIAGNOMENTAL EN PHONE (304) 822-3842 EXT. CELL: (304) 476-9770

EXISTING AND PROPOSED WELL COORDINATES

	WETTH	EAD COORDINATES (NAD I	83)	
Vell Norma	Northing (HADS3) (III)	Easting (NAD83) (V)	Let (NADBS) (Dec. Deg.)	Long (916083) (Dec. Deg.)
Drilled Tielf Marks this 1H	57,199.224	407,459.918	NO39.27743236	VIDBO.86230557
Drilled Well Seaborn Unit 14	67,197.396	482,468.876	11039.27741712	WD80.86220144
Drilled Well Sephern Unit 2H	87,116.788	402,471.664	HG38.27741206	9080.88216671
Drilled Well Violet Unit 1H	87,198.007	482,465.891	11039.27742222	W083 86223814
Permitted Well Dockbill Unit, 1H	97,192.635	482,461,686	H039.27737326	WD80.86228393
Permitted Welt Duckbill Unit 2H	27,192,027	482,484,674	NO39,27739819	W080.86724920
Permitted Well Maple Unit 1H	87,199.832	482,456,931	N039.27743743	WD80.58734029
Permitted Well Acquir Unit III	67,191.423	482,487.661	NO39.27736316	W060.86221447
Permitted Well NoOM Link 2H	67,190.615	482,470,648	N039,27736809	WO80.86217975
Permitted Well Tubp Unit 1H	87,199.016	482,463,005	N039.27742730	NOS0 86227065

	WELLEN	CAD COOPDINATES (NAD :	(זי)	
Wit Name	Morthleg (MAD27) (M)	Easting (NAD27) (M)	Lot (MAD27) (Dec. Deg.)	tong (NAD27) (Dec. Deg.)
Drilled Well Storks Unit 64	87,188,648	492,043.194	N039.27733932	H080.86247679
Dellad Well Seaborn Unit 1H	87,196,620	492,052.152	N039.27733508	W050.86237265
Drilled Walf Sections Unit 24	87,188.212	492,055,140	H039.27733002	W000.00233793
Order Well Violet Unit 1H	87,387.431	+92,049,167	1(039.27734318	W080.86240755
Permitted Wall Duckbill Unit 1H	87,182.059	492,044.961	H039.27729122	1080.88245515
Permitted Net Ducklet Unit 24	87,181,451	492,047.949	N039.27728615	1080.86242042
Pennitted Well Mople Unit 10	87,109.250	492,040.207	14939.27735529	WQ50.82051151
Permitted Well Isodis Unit 191	87,180.847	492,050.937	N039.27726112	WG83.86238569
Permitted Net Hugal Unit 24	87,180.239	492,053.923	N039.27727605	1080.85235097
Permitted Neil Turb Unit IN	87,188,040	492,046,180	N038,77734526	WDBG.88244207

CALL BEFORE YOU DIG!

API# 1706169 API# 1706170 API# 1706206

API# 1706236 API# 1706266

API# 1706550

API# 1706665

API# 1706666

API# 1706667

API# 1706668

Dial 811 or 800.245.4848

AT LEAST 48 HOLMS, BUT NOT HORE THAN 10 MORNING DAYS (DXCLUDEN MERCHIES AND HILDAYS), PRICE TO TO STAFFING ARY EARTH DISTURBA ACTIVITIES, ALL CONTRACTORS INVOLVED BY THESE ACTIVITIES SHALL CONT MICH. MICH. OF MICH. MERGING ART DIT DIST. 1—2007—246—4645.

SOILS CLASSIFICATION

GIST CRETE-PY ARCDIT CONFLEX. 25 TO 35 PERCENT SLOPES GAC GLERN-UPSHUR SET LOANS, B TO 15 PERCENT SLOPES DUE: DEPRH-UPSHUR SET LOAKS, 15 TO 25 PERCENT SLOPES

LIST OF DRAWINGS

1 OF 10. COYER SHICET 3 OF 10. EROSION AND SEDMENT CONTROL PLAN

7 OF 10. NOTES & DETAILS

9 DF 10. DETAILS 10 DE 10. RECLAMATION PLAN

DIRECTIONS TO THE SITE

PROS. PRIMEDRO, WE THANK EAST ON US SO FOR APPROXIMATE 4-0 MILES.
THIS FOR CORP. WE THANK EAST ON US SO FOR APPROXIMATE 4-0 MILES.
THIS FOR CORP. SHAPPEDR FOOD AND TRANS. 0.3 MILES. THIS ROOT DISTO
DECEMBER FOR AND FRANK I. D. MILES. THIS FORT ID STAY OF DECEMBER AND
AND TRANS. 0.3 MILES. THIS LET'S ONLY COPPETS ROOF ROAD AND APPRICA
AT THE VOST BELL PAGE OF HE REPORT.

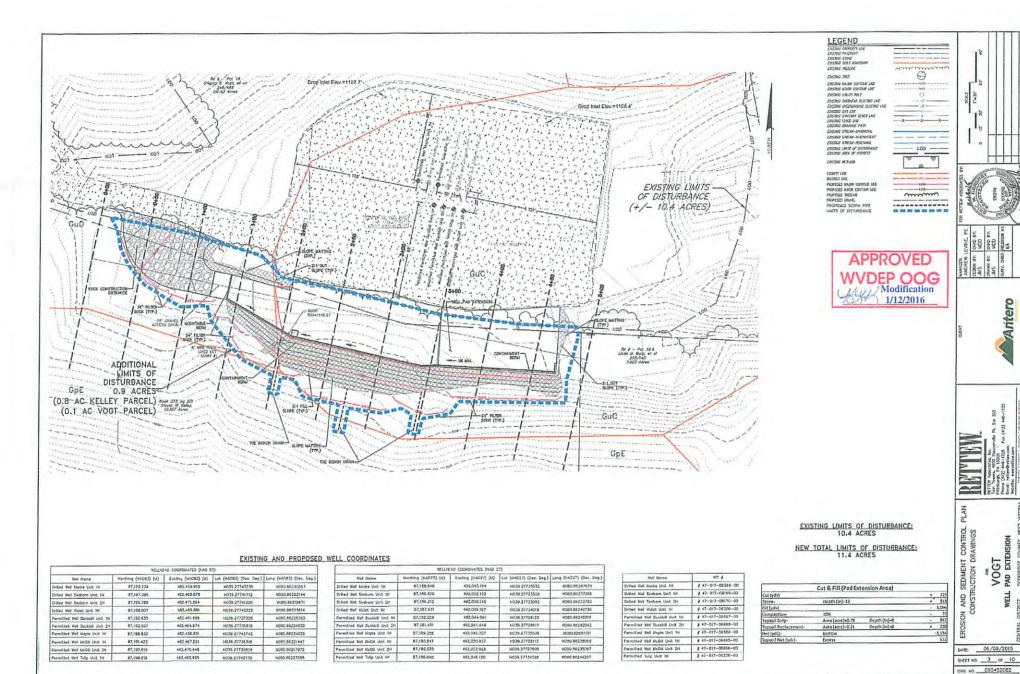
AS-BUILT AND EXPANSION LO	
ROAD A (2,541 FEET)	3.48
DRAL PAD	3.28
FRAC PIT	3.50
PACI EXPANSION	1.00
TOTAL AFFECTED AREA	11.43
TOTAL WOODED ACRES	8.90
TOTAL LINEAR FEET OF ACCESS MADD	2,541





COVER SHEET VOGT PAD EXTENSION

SHEET NO. _ 1 _ DF _ 10 DHQ NO. 095452082



Antero

VOGT PAD EXTENSION

AS-BUILT & EXPANDED PAD CONSTRUCTION DRAWINGS

FOR

VOGT WELL PAD EXTENSION

CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA



LOCATION MAP

GENERAL NOTES

- THE TEPOTRAPHIC SERVEY AND AS-BULLT WILLDED FOR THIS BASE MAPPING WAS POWERED BY ALLEGADIN SERVEYS, SAC, DR. 11/7/74. RETER TO VOIT PAD AS-BULLT FOR MORISON AND METHOD, QALL
- S2), NOTH 2016.

 1. THE HARDAL DATAN IS BEST WIGHAN STATE PLAN, NORTH AMERICAN WESTON, BASIN HEN
- 4. He studies brown on the flux are for retitient framose day, if thale to contractors responsability to verify the exact location from to any exception by hospital was subject of rest uncome at 1-200-245-448.
- 6. A MÉRAMOS PROCENCY/MECHEL SURVEY MAS PERFORMED BY POTESTA & AMBODATES, MC. E. ME CELL & FILL SAMANY CALDILATORS PROCESSED BY THE AMERICAN PROCESSED AND ASSESSED AND ASSESSED BY THE PROCESSED AND TO MEN'S EXCHANGE VALUES, AND THE ASSESSED AND THE SECRETARY CONTROL WITH THE TOTAL PROCESSED AND THE TOTAL PROCESSED
- 7. ALL DESTRICT UTBITES HAVE MEN SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE MOTHERIDE.
- 6. A CONTRACTAL EVALUATION WAS PERFORMED BY SETTER ASSOCIATE, WIL. THE SENAITS OF THE REPORT AND SAMULATED AS THE "EXCHIPTIONS," SEPONS FOR ANYTHIN RESERVED WAS WAS THE FARD ASSOCIATED WAS WAS THE FARD AS THE PARTY AS THE PROPERTY OF T

WELL LOCATION RESTRICTIONS

ALL PAD AND PRACTURE HT CONSTRUCTION COMPLEX WITH THE FOLLOWING METRICIONS.

250 FIND AN DISTRICT WILL OF SCHLOFTS SPEND UPON FOR HAMME DE SONICITA MARKELS 630 FIND SCLUPPO DEULING DE BOYN GEATER THAN 2,160 ST UND FOR FOREST OF MARY MARKELST TEAL THE CHESS OF THE FAIR 1901 FINE LODG OF DEULINGES TO SCHLAGE, FEROMEL EVERALS, MARKEL OF ARTICULE LANG FORD OF RETURNED.

NHY FROM EDICE OF DISTURBANCE TO A KATURALLY PETRODUCING TROUT STREAM,



PROPERTICA	NER INFORM	DELICH - 4C	#1 PAU MS-60	ILI AND PAU EA	PANDIUM		
CENTRAL DISTRICT - DODDRIDGE COUNTY							
CHAER	IMPARKE	DEEDPAGE	TOTALACRES	CHROMOMOTE	ACREAGE		
IN AN ANABACH YARRY.	P.O.	294 / 320	19.50	ACCESS ACADA	0.40		
	THE - PLE 10						
				TOTAL	0,10		
ANNAMED TREETE	BA .	7617124	75.00	ACCESTEDANA !	*118		

ANNAMEL J PETAL	P-O	2907138	75.40	ACCESSIOND A	2.65
	THE PER 41			EDAC DE	100
				TOTAL	1.85
CASCONY & VOST. mur	TM 9 - Pu 18	245/429	100 80	ACCESS NOAC A	0.00
				FRACPIT	2 to
				DMIT MAD	3.31
				FAD EXPINITION	014
				TOTAL	8.62
Sieven W. Kelley, et us	TM 9 - Ful 16.3	2367823	19 195	PRO ENTARCION	8.60
				TOTAL	1.00
				GRAND TOTAL	11.32

MI CLARE, MY 15400 DODGENER WY 20300 PHONE (201) 122-545 DODGENER WY 20300 DOGGNER WY 20300 PHONE (201) 122-545 DOGGNER WY 20300 PHONE (201) PHONE (201)

EXISTING AND PROPOSED WELL COORDINATES

WILLIAM COORDINATES (IND. 61)						
and prome	Hermony (NADE2) (M)	Emite (HADES) (M)	Lot (NADES) (Dec. Dep.)	Long (NADES) (Dec. Sep.)		
Drifted that Names Unit 1H	67,100,224	482,470.018	HO39 27743836	#G80.86230537		
Drifted Hell Seuborn Unit 1H	67,927,296	452.418.975	NG39.27741712	WONG SEZZOL44		
Drived Well Sections Unit 24	67,196.750	462,671.664	40.29.27741306	W000 86214671		
DYRHE WHI WHAT UNIT IN	87,108,007	462,465,884	NO39.27742222	W080.66223614		
Permitted that Dunkolt Unit 1H	57,492,635	482.461.685	H039 27737328	MAND ROTATION		
Permitted Well Ducklet Unit 24	67,192,027	452,404,574	M039.27736809	W080.46234620		
Permitted Wall slople trip to	67,199.632	482,456,931	NO39.27743743	9060 66234029		
Permitted West MoDRI their BS	67,121.425	402.497.561	NG79.27736316	W050.85225447		
Permitted that begin that 24	87,190,515	402.470 546	H038.27723809	W960.66217975		
Permitted that Tulp Unit 191	87,166.616	462,452,665	NG39.27742730	WORK M127065		

₩ELUKAD COORDMARES (NAD 27)						
This blance	Harthing (MADZY) (M)	Eming (HACE27) (M)	Let (MAD 21) (Dec. Dep.)	Long (PACET) (Dec. Dag		
Driver was blocks that me	£7,153.646	435,043.64	MG24.27735032	HD8G 86247679		
Drilled Well Seasons Unit 1H	17,134,620	492,062,162	M038.27733508	VOSD.84237266		
Diffed that Sanbarn Unit 2H	67,184.212	487,064,140	HG39 27733002	WORG 84233783		
Detried West whose place the	67,83.431	492,049,167	N039.27734608	HORO. 84 2 40733		
Permitted Well Supersts Unit 119	87,182,00m	472,044,961	NO35 27726122	W(80.66248515		
Permitted that Duckate took 24	87,181,432	472.047.949	No3s 27728415	WQM0.86242042		
Permitted Well Hughs Unit 1H	67,146.234	482,040,297	NO39.27733638	WORD, 82651134		
Permitted Well skilled Link by	67,100.647	492,080,937	H039.27728112	W060.84230049		
Perceited their McSIN Unit 24	F7.160.230	412,053.923	N039.27727646	W080,86235097		
Personned and fulp their ter	67,186,040	497,046,163	M039.27734929	WCHID 84744297		

WEST VIRTURE NICE

YOU DIG! Dial 811 or 800,245,4848

SON S CLASSIFICATION

- SAC OLIVE-PLANCEY CONTEX, 25 TO 35 PORCENT ROPCE SAC OLIVE-LETIMAN OLI LUMAN, 8 TO 15 PERCENT ROPCE SAC OLIVE-LETIMAN OLI LUMAN, 10 TO 25 PERCENT ROPCE

LIST OF DRAWINGS

B OF 10. DETAILS B OF 10. DETAILS 10 OF 10. RECLAMABON PLAN

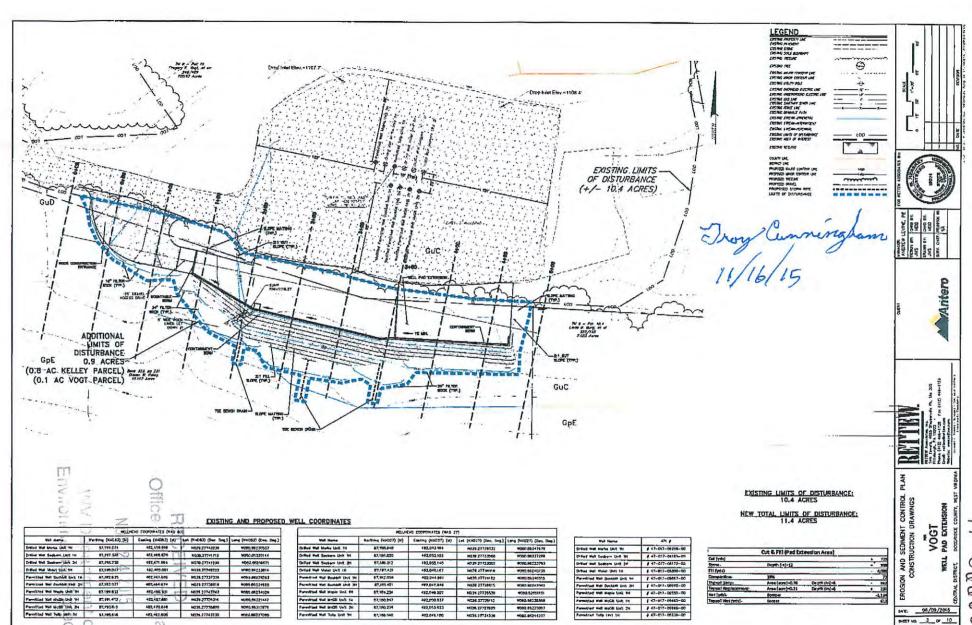
DIRECTIONS TO THE SITE

FROM PRINTED ON THAT LAST DO US TO THE APPLICATING AN MUSS THAN LIST OWN SUMMING HOLD AND THAT DIS MUSS. THE ROOT DUTY DO US THAT DIS MUSS. THE ROOT DO SAY THAT TO MUSS. THE ROOT TO SAY OF COMPANIES. THE ROOT TO SAY OF COMPANIES. THE ART ONTO COMPANIES FOCK MYAD AND MARCH. AT THE YOUT MULL AND ON HER ROOT.

AS-BUILT AND		
DAD A (E.S.ET PEET)	2.46	
DRILL PAD	3 12	
FRACPIT	3.10	
PACI EXPANSION	125	
TAL MERCETED MEA	1143	
DISTLASED	140	
THE LINEAR FRET CA	2541	

COVER SHEET
CONSTRUCTION DRAWINGS
WELL PAD EXTENSION

NOT FOR CONSTRUCTION/NOT FOR BIDDING



ion

NOT FOR CONSTRUCTION/NOT FOR BIDDING

AS-BUILT & EXPANDED PAD CONSTRUCTION DRAWINGS FOR

VOGT WELL PAD EXTENSION

CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

START PROPOSED ACCESS DRIVE NAD83 LAT: 39' 16' 38.4088" LONG: -80' -51' 47.9094'

OLD CEPN-UPSHIR SET LOAMS, IS TO IS PERCENT SUPPLY QUE ULPIN-IPPINIR SLI LONIS. 15 TO 25 PORCENT SLOPES

LIST OF DRAWINGS

3 0 13. EROSON AND SEDMENT CONTROL PLAN 4 OF 10 CPCSS MICTORS 5 CF 10 CROSS SECTIONS 6 OF 10 CROSS SECTIONS 7 OF 10. NOTES & DETALS

6 OF 10 CETAR S CETALS

DIRECTIONS TO THE SITE

AS-BUILT AND PAD EXPANSION LOD (AC)			
ROAD A D MI FEET	1.44		
DRILL PAD	7.78		
FRAC PIT	140		
PAD EXPANSION	1.00		
OTAL AFFECTED AREA	11.43		
DISTURBED	8.96		
OTAL LINEAR FEET OF	2.54		

EXISTING AND PROPOSED WELL COORDINATES

		9	AD COOPDINATES (NAD 6	≠cu e
Bel Nor	Long (MAD63) (Dec. Deg.)	Let (NAD83) (Dec. Dep.)	Easing (HADES) (M)	ning (NIDES) (W)
Drivet Well Marks 1	WSRS #6230557	4039-27743236	462,459.915	87,199.224
Drilled Mail Sentent	V080.85720144	NG39.27741712	452,458.875	87,197.316
Dilled Hell Septon	WOSD #6276571	N039.27741208	402,471.064	87,194.788
Drifted Well Visite 1	W080.8527.3814	NO39.27742222	482,455.891	87,198.007
Permitted Hell Duc	#080 86228583	HG39 27737329	482,461,656	87,192.635
Permitted Net Dar	W080 86224920	4039.27736619	452,454.674	87,192,027
Fermitted Not beg	W080.68234029	W039 27743743	482,454 571	87,199.832
Permitted Hell McC	W000.05221447	V039 27736316	482,467,661	87,191.423
Parmitted Not Mr.	W060 86217575	W039-27735809	482,470 848	87,190,815
		MOSE CELEVISION	487 447 900	#7 198 AM

CENTRAL DISTRICT - DODDRIDGE COUNTY

TIMPARCEL DEEDMACE TOTAL ACRES

mitted Wel McCil Unit 24

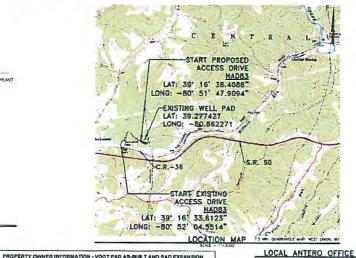
	METTH.	AD COORDINATES (NAD)	[7]	
But Hirms	Name (H4027) (w)	Enting (NAD27) (W)	Let (MAD21) (Dat. Dep.)	Long (44027) (Dec De
Order Well Morks Unit 1H	87,166.648	#92,043.194	A039.27735033	W080.86247679
Order Mail Sentern Unit 114	87,186.823	492,052152	NG30.27733506	W060 80237256
Drilled Herl Septorm Unit 201	87,166 212	492,055.140	NO39.27733002	WOND 81233793
Drifted West Visite Unit 191	E7.187 431	497,049 167	NO30 2773464E	W080.862+0739
Permitted Hell Ducksti Unit III	67,152.009	892,344.961	NO.59.27729122	W000 MIZ+5515
Permitted Net Ducksit Unit 24	E7,181 45I	492,047.945	NG39.27726415	W080.M747047
Formitted was bigule tink til	97,139,236	492,049.207	NO39.277355319	W080 82631151
Permitted Hell McCR Unit 84	87,150 847	+92,050 937	NO39.27728112	W280 85238589
Parmitted that MrGIT INIT 34	97,180.230	*92,053,923	NO32.27727609	#980.01275C97
Permitted Net Tally Linit III	87,188.043	497.046.18C	1039,27734526	W186 81244307



GENERAL NOTES

WELL LOCATION RESTRICTIONS

- MO' FROM EDGE OF DISTURBANCE TO A HATURALLY REPRODUCING TROUT STREAM



OHY SATH-FIELD ENCHED PHONE (304) 859-3405 CELL: (304) 873-8198

YOU DIG! 800.245.4848

Dial 811 or

DE: DUPN-PLANOT COMPLEX, 25 TO 25 PERCONT SLOPES

FECLANATION PLAN

AS-BUILT AND PAD EXPANSION LOD (AC)			
ROAD A D. MI FEET:	1.44		
CAN LIRIO	7.78		
FRAC PIT	149		
PAD EXPANSION	100		
TOTAL AFFECTED AREA	11.43		
DISTUMBED	196		
TOTAL LINEAR FEET OF	244		

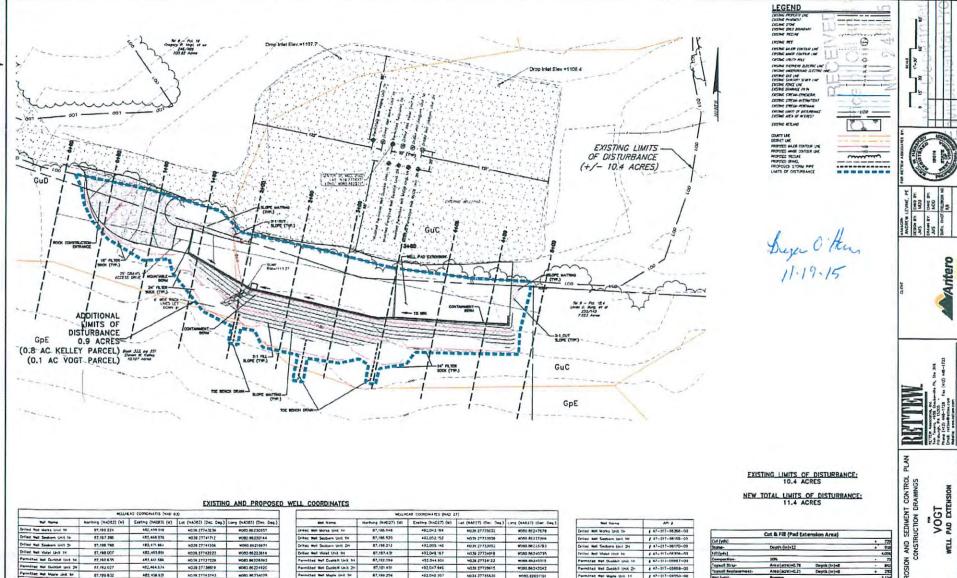
feet an 095452082 NOT FOR CONSTRUCTION/NOT FOR BIDDING

VOGT

DATE: 08/09/2015

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V



EXISTING AND PROPOSED WELL COORDINATES

	MILLEAS COOKEMATTE (NAD 83)			
No. Name	horiting (NACES) (W)	Exeting (NACES) (U)	Lot (4A)63) (Dec. Dep.)	Long (NADES) (Dec. Deg.)
Drilled West Warts Live TV	87,199 224	482,459 518	NO30 27743236	W060.66230957
Ortled Well Septorn Unit to	67,197.3%	482,446,576	9039.27741712	VOID 85220144
Orbins was Seeburn Linit 3	67,196.7ME	182,471.864	H039.27741206	W060.80216671
Driffed West Violet Unit 14	67,198 DD7	482,465.891	HO39.27742222	W080 86223614
Permeted and Durable this IN	87,193 K35	487,441.686	HQ39 27737328	WORD 84228393
Permitted Net Duckbill Unit 24	67,192 027	482,464,974	W039.27736519	WD83.86224920
Permitted Bet Hopie Joil 14	67,199 632	482.456.631	MO39.17743743	MORT METSANTE
Ferrities and section that the	67,171 423	462,467,661	W038.21136314	W080 86221447
Permitted Het McOil Unit 24	87,190 615	402,470 648	NO39.27735809	WORD 86217975
Permitted Bet Tale Unit 191	27,198.016	402,442,905	NO39.27742730	WORD #6227065

	WELLHEAD COORDINATES (NAD 27)				
Well Name	Northing (NAC27) (M)	Eceting (NAD27) (W)	Let (NA027) (De: Dec)	Long (MARST) (Dec. Dag.)	
(Freet Will Morks Unt 1H	67,160.548	492,043,194	NG29.27735032	W350.552+7679	
Dritter Well Septiern Unit 1H	87,186.520	492,052,152	NG39 27733508	MORO 81237246	
Drites myt Sestern Unit 219	67,196,212	472,000,140	NO39.27733002	W080.84233783	
Order Well Volet Unit tH	67,157,431	492,049.167	NO39.27734018	VOS0 76240735	
Mermitted Well Dushbill Unit 111	87,192.059	492,044,951	M039 27728122	W709 09240515	
Permitted Well Duckell Unit 24	87,181.451	492,047.945	NO39 27728415	W080,86242042	
Permitted Well Maple Unit 1H	87,189.254	+02.040 707	16233.27785836	W000,82631151	
Permitted Net McCil Unit to	67,160.347	+92,050 #37	1039 27728/12	#989.81235569	
Permitted Net McGit Unit 24	57,180.236	492.053 423	NO39 27727805	W355 84215097	
Permitted that Telly Unit 1H	67,186,040	492,046.180	NO33 27754526	W386.86244207	

Stell Nome	API I
Drilled Bell Marks Unit 14	47-017-06268-03
Drillac Katl Sasbara (July 164	# 47-017-06169-00
Drillec Hell Sasbera Unit 2H	1 47-017-06170-00
Drifted Seel Maket Emit to	# 47-017-06708-01
Fermities Wet Ducklet Unit 14	4 47-317-65867-03
Permitted Well Duckhill Unit 21	# 47-317-6668-OS
Fermitted Wet Mode Unit 14	£ 47-317-00553-00
Permitted Well McGII Unit 14	# 47-017-06655-00
Permitted Well McCH Unit 24	# 47-017-04644-00
Permitted Tulp Dnir tH	# 42-312-06236-00

	Cut & Fill (Pad Ext	ension Area)		
Cut (yds)				7
kone-	Depth (in)=12			9
Fill (yels)			-	LO
Compaction-	10%			
Topsoff Strip-	Area(acre)=0.76	Depth (in)=5		7
Topsdl Replacement-	Area(acre)=G.21	Depth (in)=8		2
Net (yos)-	Borrow		-1	ü
Topsail Net (yds)-	Excess			7

E	8
DATE: _	06/09/2015
SHEET NO.	3 or 10
DMC HO	095452062

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AS-BUILT & EXPANDED PAD CONSTRUCTION DRAWINGS FOR

VOGT WELL PAD EXTENSION

CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

ACCESS DRIVE

LONG: -80" 51" 47.9094"

EXISTING WELL PAD LAT: 59:277427 LONG: -80.862271

HAD83



LOCATION MAP

TOT FROM EDGE OF DISTRIBUNCE TO METANOG POPENIA SPEANS NATURAL OF AMERICAL LAND, POLIC OR RESERVOR. NET THEM LONG OF DESCRIPTIONS TO A RATERIALY REPOSSIONS TROUT STREAM,
1,000 OF A SUBSTACE OF SPECIAL SAFER RESULT TO A PUBLIC WATER SUPPLY.

ACCESS DRIVE NADB3 LAT: 39" 16" 35.5123" LDNG: -80" 52" 04.9514"

1110 0111	acri sei oto	H11011-101	III AD AFOO	ILT AND PAD EX	PARAMON
CENTRAL DISTRICT - DODDRIDGE COUNTY					
OWNER	TAPARCE.	DEEDPAGE	TOTAL ACRES	TYPE OF DETURBANCE	BASSCA
JERRY NORMAN, 44	MC	24/7/7	08.97	ACCRESS FIGAD A	0.10
	TWO-PM. 16				
	1000	100.01		TOTAL	0.14
AMMEEL J. NETLE	PIC	250 / 175	23.40	ACCESS FOAD A	2.86
	IM t-Fel ()			FRAC PIT	1.00
				IOTAL	1.44
CHESONYA HOST, et us	74 6 - Fu 's	2401466	VIX. BY	ACCUSE POAC #	0.90
			-	PRAC PIT	7.80
				DRELFAD	***
			-	PAD EXPANSION	0.14
				TOTAL	1.51
Sman W Kides, etca	730 PM 143	264 / \$20	90.107	PAC EXPRESSE	0.00
				TOTAL	1.71

	PHONE (304) 622-3842	SHOUSE ON THE
DRAME	I'M MACONES-BINACO	MENTAL ENGINEER
0,10	PHONE (204) 523 53112 (304)	
0.54	DIN CANCER-OFTENTS	DIE SLPERMIENDENT
2.66	AARON KING FR-CINE	
1 00	CULL: (4CE)	
0.90	MCHIGHT SATI- MCRAF (SM) CCLL: (SM)	MSS-3405
**	POWERT WINCE-DE	SIGN MANACON
0.14	PHONE (304)	\$42-mos
4.51	CIL: (304)	627-7405
0.80		
0.20		
11.37		

LOCAL ANTERO OFFICE

EXISTING AND PROPOSED WELL COORDINATES

WELDEAU COCKDINATES (NAD 82)				
tel ferre	Harma (MOES) (V)	Earthy (NADES) (LE)	Lat (NADEZ) (Dec Day)	Long DEADES) (Des. Deg.)
Drillad Met works Unit 1H	87,199.224	482,455.918	NO38.27743236	#080.81230567
Drilled Well Sectors Unit 194	E7,107,385	492.468.876	H039.27741712	WWX 20220144
Ordinal that Standard Unit 24	67,195,796	413,471,864	M34.277+1296	W080,80216671
D-Wad Med Hadel Limit 1H	87,196,007	402,465.001	1031.1774222	NOS3.86213614
Permitted Not Support UNIX TH	87,162,635	402.461.000	MC38.27727276	2221.0073638.3
Formities the Suice Unit 21	E7.102.027	403,404,674	M039.27738819	W083-84324430
Permitted that Maphy Unit 19	87,109.832	452,456,931	NG39.27743743	4080.86234009
Permitted that settle seet to	67.197.423	402,487,661	MM.377M34	9063 RF771447
Pending Mr Hall July 24	67,190.0-5	402,170,846	1639.27143070	4080 SH21/8 79
Permitted that Tully Link St	07.15E.0'S	482,442,900	M31.37747730	9063 86277065

WILLIAM COORDINATES (NAD 27)				
The time	Hertifus (MASSET) (N)	Costing (MATERY) (N)	Lat (WAGET) (Dec. E46)	Larg (MADZI) (Dec. Dec.
Dried Well Kores Link III	87,18L848	402,043.194	H036-27735032	VOID-81247679
Defined their Summer task the	87.164.820	402,082.192	#435.E773350E	W000.003277304
(read test Septem Lett 2+	07,100.212	#EZ,039.140	NO30.27713322	WORD_88233783
Drilled Wall Moral Just IN	\$2,167.433	402,040,167	NG31L27734016	VC0026247730
Permittee that Surickii (s-1); 19:	E7:151.509	192,044.811	ME30 27729122	MO(0.071467/0
Fernites and taken that 24	#1,184.401	492,047,940	MO39.27728815	A083-883-3043
Permitted that ticple that 14	87,586.238	492,040,207	MG30.27738530	MONES RONSTITUTE
Parallel And Maria Land St	\$7.180.5c7	47,040,837	MG20 27728112	*90.02365H
Females and stops that 3H	87,180.276	42,351,623	F038.27727825	M063,86225007
Permitted that Tulp Solt to	87.18K.040	402,044 (80	MENTO 27734538	9063,60244277

Dial 811 or 800.245,4848 YOU DIG!

SOILS CLASSIFICATION

GC CEPSCUPDED U. LOWIS, 3 TO 18 PORCOST SCHOOL GO GLPW-JPMM SLT LONES, 16 TO 25 PERCENT SLOTES

LIST	OF (DRAWINGS	
1 07 10.		CIMER SHEET	
2 07 12		EXISTING CONSTRONS FLAN	
3 DF 12		DIOSON AND SEDMEN DINING, PLAN	
4 05 12		oross scenova	
2 0 to.		DIOS ECHOIS	
		DOS FCIDE	
7 CF 12		HOTE & IZ IALS	
6 of 12		DETALS	
BILLIER		The same of the sa	

AS-RUILT AND EXPANSION LOS	
MCADA (LEH FEET)	140
CHILL PAD	180
ARAC PIT	1 55
PAC EXPANSION	1,00
TITLE APPECIED AND A	11.0
DISTURSED ACTUES	6.90
ACCESS SAGO	2541

DMC. NO. 095452082

ection

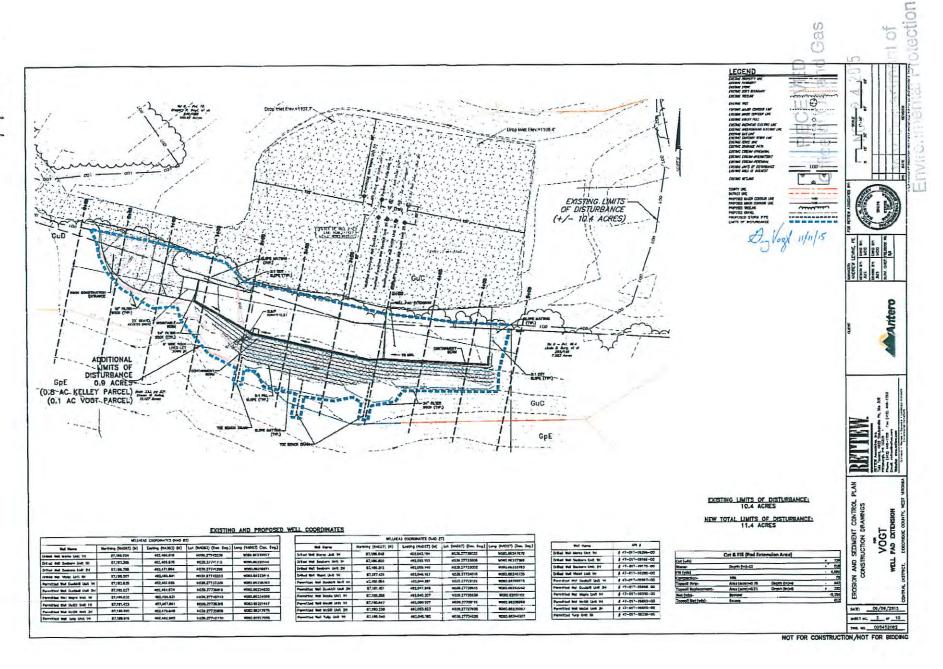
Gas

2 03

Office

ASSONAL SIN

NOT FOR CONSTRUCTION/NOT FOR BIDDIN



AS-BUILT & EXPANDED PAD CONSTRUCTION DRAWINGS

FOR

VOGT WELL PAD EXTENSION

CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA



NADES LONG: -80" 51" 47,9094" EXISTING WELL PAD LAT: 39.277427 LONG: -80.852271

WELL LOCATION RESTRICTIONS

SB

- LOOP OF A 18

THE OWNER OF THE PERSON	run.	-7.7
OF DETERMENT	TO A HATJRALLY	REPRODUCING TROUT STREAM.
DELL'ACE OU CHATHE	PATER MILE R	A PUBLIC MATTER SEAPLY.
-	119	7 1 6
-		
	100	23



PROPERTY OW	NER INFORM	MATION - VO	ST PAD AS-BU	ILT AND PAD EX	PANSION
	CENTRAL	DISTRICT -	DODDRIDGE C	YTMUO	
OWNER	THEFWICEL	DESTUPAGE	TUTAL ACRES	TYPE OF DESTURBANCE	ACREAGE
JERRY ROBBIAN, et al.	PIG	204/370	12.60	ALCESS ROAD A	6.10
	TM B - PHE 16				
-				TOTAL	6.10
HOUSEL ! METE	PIO	250/176	25.40	ACCESS NONDA	7.66
	THE . POINT			PRAC POT 1	180
				TOTAL	740
GREGORY R. VOOT, H. J.	THE - NO 10	244 / 489	300 G2	ACCESS ROAD A	5.60
				PRAC PIT	710
	- 22		100	DRILL PAD	3.36
				PACI EXPANSION	0.14
		1		TOTAL	6.62
	_				

EXISTING AND PROPOSED WELL COORDINATES

	WILLIA	THE CONSCRIPTION OF	E)	
Red Heres	Harding (HADES) (M)	Eneling (MERS) (M)	Lat (HADES) (Dec. Cop.)	Lang (NADEX) (Dam. Brog.)
Drived Med Migrid (I-AL TH	67,186,714	462,458,918	HG30.27743236	WEAK 84230557
D-Fed Md Same U-1 74	67,547,346	48Z,448,876	M039,2774(752	W080.89220144
Drive that Septem (PU) 29	87,196.76a	472,477,864	W0.16.27741206	WORLEAUTHE 71
Deline Mak Water Bart Ly	27,486,007	42,45.05	M038.27742221	9080.80223614
Permitted the Ducket Link by	67,102,020	40E.44T.486 '	MUSS.27727338	#040.88228.W3
Permitted that Duplies Unit 24	87,102.DI7	472.491.074	NC20.2773666	#MESSAGE24820
Perpetited Tiell Maple Link 110	87,199.832	402,450.031	HQ14.27743743	#EXEL SE224029
Ferential that south that the	E7,191.423	402,467.841	M030-27776358	4080 95221447
Permitted that MoDE Usiz 24	E7,190.E15	412,470,648	HG38.277366np	4000 64217978
Permitted that Tulp USE TH	67,196.646	440,467,905	HC39.27742730	9090 MZ27085

	AUTH	(SIM) STEMMONDOO ON	17)	
Well Valence	material (messa) (m)	Easting DANDERTY BAT	Let (MAC/27) (Dec. Cop.)	Long (NAD27) (Dec. Dog.
Critical Mari Augment Links, 295	67,188,646	#13,M3,164	1030.27735033	W000-R0247679
Drived that Sandon (24) 111	67,166,820	492,852,192	HC39,27733508	#000.00237264
Drillad Well Southern Unit 211	67,968.212	497,003,149	MG20.27735002	WC0076233707
DiPlud Had Market Unit 144	87,107,431	402,040.167	HG38.277340H6	WING 26249735
Provided that Dudded Seek 1H	F7,NELECT	483,D4L951	NG39L2772912Z	MD80.00243515
Pennitiad that Support (arts 2H	67.181.450	482,017,948	NG30,17728445	MOREO 2025/42043
Parentied that Marie Unit 184	67,180.25s	492,840,307	H030,27733538	WHITE SOME
Permitted that Made then be	E7,180.647	<97,850.837	M074.27720112	WOOD DOZJEDAN
Permitted met tisch that the	67,NEC.536	493,093.97D	H039.27727605	W000 06225007
Fermillies test hip that the	87,188.040	402,046,590	H038.27/34824	WD00 00244707

YOU DIG!

SOILS CLASSIFICATION

GE CHAMPENGEY CONFLIC. 25 TO 25 PORCENT TEAPON GE GUN-UPPOR MI LONG, I TO IN POPULAT MANS

LIST OF DRAWINGS

- 1 OF 10 COMEN SPEET

- S OF M. DIOSS METHOD
- 7 0 10 HOTES & PETALS
- 5 OF 10. DETALS
- 5 07 12 DETALS

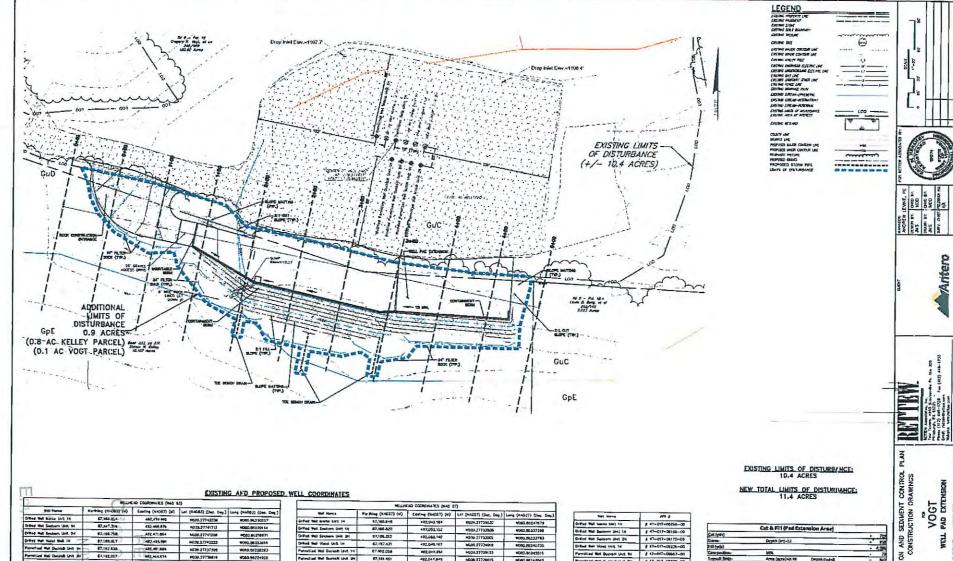
DIRECTIONS TO THE SITE

THOSE PRANTISONS WE TRANSE CAST OF US SO FOR APPROXIMATELY AD MALES WAS IN CONTINUED TO MAKE A MALES THAN SOUTH CAST OF A SOUT

AS-BUILT AND EXPANSION LOC	
NOAD A CLISH PERTY	A es
ENTILL PAGE	1.30
FRAC PIT	2 50
FADEIFANDOM	100
DTAL AFFECTED AREA	11,41
DIETURNED	4.60
ACTES PACO	2541

CATE 05/09/2015 PET NA _1 er _10

ENG. NO. 695452082 NOT FOR CONSTRUCTION/NOT FOR BIDDING



FEI Name	enamed (arces) (w)	Easting (44063) (MS	Let (MACAS) (Dec. Day)	Long (Haltes) (Dec. Deg.)
Diffed and Marks Unit 1H	E7,160,244	462,13v peg	MG20.27743234	MDRD PL250557
Drilled Well Septem Unit 14	£7,107,300	653, et0,874	4029.27741712	MDSC.85220144
(NEGS Bull System Unit 24	87.196.7tm	AE2.471.064	MG38.27741208	₩000.66216671
Drived man Vasted theil IH	\$7.186.02.7	452,415,894	M039.27742222	9090.38323614
Personal that Decision Decision in	£7,197.83A	482,451,556	NET39-27737326	W240.66720263
Permitted Well Ducktill Link 261	\$7.192.007	482,444,674	PG30.22738619	WG60 M1774920
Permitted Well Maple Unit IN	D7.199.822	ART 4M 631	MAN 17741545	

480,407 821

NG30.37736346

MILTO 27722809

67,101,425

rotection

(D)

Gas

EXISTING AND PROPOSED WELL COORDINATES

1000 01221447

W989 M217979

West North	For Pring (NAD27) (N)	Costing (NACET) (W)	LAT (MADET) (Dec. Deg.)	Long (map27) (Dec. Day)
OrFed Net Weste LIFE IN	87,166.646	497.043.164	M039.27735032	4060.66247679
Drived Well Sandarn Livery toy	47,166,620	487,052,152	H039.27732506	W060.86237246
Coffed theil Sections Unit 20	67,186,212	472,060,140	H039-27733002	W000,06233783
Dried that Make Unit 1H	67,157,431	492,049,167	MG31 27734042	W080,86340735
Permitted Well Durish Lavy 14	E7.902.058	APZ.044.964	MU34.37729122	4080,86343015
Permitted that Burtain Unit 24	\$7,161.451	402,047,045	HOM 27729615	9680 96242043
Permitted that Miguir Link Mi	87,189.256	482,040,207	NO38.2773\$336	W090 \$265/101
Femilies the McCit Unit 14	87,180.647	182,050,537	M034.27726-72	VDID M23/Mis
Permitted Wet Might Unit 24	E7,190.239	482,053,923	NO38.37727609	VS-00_002239087
Permitted that halp that IH	67, WELD+0	497.044.100	M036.27734526	M060.85244207

MELLHEND COORDINATES (MAD 27)

Tell Morre	mi
Ordered Mail Searces Conty See	# 47-017-06268-00
Diffed Well Sestern Unit 1H	# 47-017-06169-00
Drilled Wall Sections Unit 24	# 47-017-06170-00
Diffied than bloom tong the	1 17-017-01231-00
Permitted their Ductions that the	£ 43-047-06667-00
Permitted that Deviced Unit 2H	\$ 47-Q17-C0000-00
Permitted Well bispin that We	1 47-017-04560-00
Permitted that began that the	# 47-017-D0835-00
Persister out MCR Usin 2H	\$ 47-017-05676-00
Permitted fully Levi 1H	4 47-017-04736-00

EXISTING LIMITS OF DISTURBANCE:

NEW TOTAL LIMITS OF DISTURNANCE:

	Cut & Fill (Fad Ext	ension Aree)		
Cast (yels)				72
Clare-	Depth (Ind-32		-	-
Fill (yels)			-	4.00
Competition-	MARK		-	7
Toynoli Swip-	Area (2014) NO.78	Compit (Ind-E	-	No.
Topsoft Replacement	Acce (acm)=0.21	Depth (in)-6		290
Net fydal-	Report .			-313
Topsell Her (yes)-	Excres			E

DMG. NO. 095452082

NOT FOR CONSTRUCTION/NOT FOR BIDDING