

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Tuesday, April 25, 2017 WELL WORK PERMIT Vertical / Fracture

VIKING ENERGY CORPORATION (A) P. O. BOX 13366

SISSONVILLE, WV 253600000

Re: Permit approval for 47-039-02210-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number:

Farm Name: COLUMBIA GAS

U.S. WELL NUMBER: 47-039-02210-00-00

Vertical / Fracture

Date Issued: 4/25/2017

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)

CK 1398 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL WORK PERMIT APPLICATION

1) Well Operato	r: Viking	g Energy	Corporation	51440	Kanawha-039	Union-09	Pocatalico-551
	1			Operator ID	County	District	Quadrangle
2) Operator's V	/ell Numb	er: Walla	ce Unit #1		3) Elevation:	661.72	
4) Well Type: (a	a) Oil <u>N/A</u>	or Ga	ce Unit #1	rine Disp	osal (com	mercial)	
			ction N/A / Und		20222	_	
		Deep	YES / S	Shallow NO	_		
5) Proposed Ta 6) Proposed To 7) Approximate 8) Approximate	tal Depth fresh wa	: Existing 55 ter strata	a depths: 630"	ne disposal Formation at F			
9) Approximate	coal sea	m depths	s: N/A				
10) Approximat	e void de	pths,(coa	al, Karst, other):	N/A			_
11) Does land	contain co	al seam	s tributary to act	tive mine? N	0		
			nd fracturing meth				
			frac using 1,000 ga 40,000 #s 20/40 or				
			ıp post frac. Drill ou				
13) TYPE S	PECIFIC	of all to Charles White	ASING AND TU	BING PROGR FOOTAGE	AM INTERVALS	AL D CEME	lila NT 4-1417
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu	
Conductor	20"	UNK	106.5	15'	15'	CTS	
Fresh Water	13 3/8"	H-40	48	241'	241'	CTS	3
Coal							

Packers: Kind: **BAKER-LOCK**

Intermediate

Production

Tubing

Liners

Sizes: 5 1/2" X 2 7/8"

Depths Set 5520

8 5/8"

5 1/2"

2 7/8"

J-55

N-80

J-55

24

17

6.4

WV Department of Environmental Protection4/28/2017

5020 of Bland Gas

1738'

5514'

1738

5514'

5520'

("W/109x 15)

CTS

TOC @ 2700'

039-02210-



DEPARTMENT OF MINES OIL AND GAS DIVISION

Robert 11 Spudder Cable Tools 1:

LHARLESTON.

Quadrangle Ull	11.17.71(4)					C	
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Primit No.			***************************************			Oil or list	Well
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	c Unit No	4	Arres 110-1/		123,000		
Inestine (waters)			A. 110-17	Size	1		
Well No i			vi 661 72		1 . 15 .	1	Guide Shoe, C
District . Union	1	Comb. Kan	1.1. 001.72 1	gr. Hr 20" Con		- F1	oat Collar, call
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		J. 2. Call	leston, West	.Va 1/2".	5565.83		5/8,5-1/2,5-1/
Mineral rights are	dwited by	Route 5. Be	12 411	-m=2-3/8".	5574.54	17	6E:58F1:58E:38
* * *		Admiss Ciairle	13 413 West 1	Va. 53/16			14.54, 5480.61
Drilling commence							Perf. ter
Drilling completes			2)	1 2		n one in	Perf, bottom
Date Shat		· · · · · · · · · · · · · · · · · · ·		Liners lised			Perf. 10p
With							Perf. bottom
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.00				PRINCE	r inch	usF	EDET 120 161
alclum Chlorid					. 500# J84,		
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HESTER AFTER SHOCK PERSONN Fresh Water	TREATMENT CALLER TRO	Cost (o telep	Fraced with	Jec turbin	Feet	Bbls, of Wace
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RESELT AFTER ROCK PERSONN Fresh Water Fermatium off & Sand and (Hard) ed Rock	TREATMENT CALLER TRO	Cost (Tup	Satt Water Rattern	Jec turbin	Feet	Bbls, of Wace
RESELT AFTER ROCK PERSONN Fresh Water Fermatian	TREATMENT CALLER TRO	Cost (Tup 0 30 75 100	Sall Water Hallant	Jec turbin	Feet	Bbls, of Wace
RESULT AFTER ROCK PERSONN Fresh Water Fermatian	TREATMENT CALLER TRO	Cost (Tup 0 30 75 100 113	Sall Water Hattam	Jec turbin	Feet	Bbls, of Wace
RESULT AFTER ROCK PERSONN Fresh Weter Fermatian oil 6 Sand and (Hard) ed Rock and (hard) ed Rock hale-Sand-R.B.	TREATMENT CALLER TRO	Cost (Tup 0 30 75 100 113 120	Sall Water Hallant	Jec turbin	Feet	Bbls, of Wace
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RESELT AFTER ROCK PERSONN Fresh Weter Fermatian off & Sand and (Hard) ed Rock hale-Sand-R.R. sindy Lime aft Sand hale aft Sand ittle Lime	TREATMENT CALLER TRO	Cost (Tup O 30 75 100 113 120 860 950 1158 1183 1444	Satt Water Ration	Jec turbin	Feet	Bbls, of Wace
RESELT AFTER ROCK PERSONN Fresh Water Fermatian oil & Sand and (Hard) ed Rock and (hard) ed Rock hale-Sand-R.R. andy Lime alt Sand ittle Lime ig Lime	TREATMENT CALLER TRO	Cost (Tup O 30 75 100 113 120 860 950 1158 1183 1444 1486	Sall Water Rations	Oil, Can w Water	Foot	Bbls, of Wace
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RESELT AFTER ROCK PERSONN Fresh Weter Formation oil 6 Sand and (Hard) ed Rock hale-Sand-R.B. andy Lime alt Sand ittle Lime ig Lime and 6 Shale hale lime	TREATMENT ATTER TRO	Cost (Tup O 30 75 100 113 120 860 950 1138 1484 1486 1650 1703 1750 2115	Satt Water Battern	Oil, Can w Water	Foot	Bbls, of Wace
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Office of Oll & Gas
Office of Chief

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W/ Department of Environmental Protection

WW-2	2A
(Rev.	6-14)

1). Date:

April 13. 2017

2.) Operator's Well Number

Wallace Unit #1

State

County

Permit

3.) API Well No .:

47- <u>Kanawha</u> - <u>2210</u>

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

T) Guillace OV	vner(s) to be served:	5) (a) Coal Op	7010101
(a) Name	Viking Energy Corpora	ation Name	Viking Energy Corporation
Address	8113 Sissonville Dr.	Address	
	Sissonville, WV 25320		
(b) Name			Owner(s) with Declaration
Address		Name	Viking Energy Corp.
7144.555		Address	8113 Sissonville Dr.
		7144,000	Sissonville. WV 25320
(c) Name		Name	Olasonville. VV V 23020
Address	-	Address	
Address		Address	
6) Inspector	Terry Urban	(c) Coal L	essee with Declaration
Address	PO Box 1207	Name	N/A
	Clendendin, WV 25040	O Address	
Telephone			
	TO THE PERSO	NS NAMED ABOVE T	TAKE NOTICE THAT:
Included is t			racts by which I hold the right to extract oil and gas
OR		•	
			0/15 6/1 0 1 6/14 15/15 15/15
moluded is t	he information required by Ch	napter 22, Article 6, Section	on 8(d) of the Code of West Virginia (see page 2)
			on 8(d) of the Code of West Virginia (see page 2) ginia Code I have served copies of this notice and
I certify	that as required under Chapt	ter 22-6 of the West Virg	on 8(d) of the Code of West Virginia (see page 2) ginia Code I have served copies of this notice and bugh on the above named parties by:
I certify	that as required under Chapter cation plat, and accompanying	ter 22-6 of the West Virg documents pages 1 thro	ginia Code I have served copies of this notice and
I certify application, a loc	that as required under Chapt cation plat, and accompanying Personal Service (Affid	ter 22-6 of the West Virg documents pages 1 thro	ginia Code I have served copies of this notice and bugh on the above named parties by:
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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 personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

SURFACE OWNER WAIVER

County	Kanawha (039)	Operator	Viking Energy Corporation
		Operator well number	Wallace Unit #1

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) 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.

<u>Comments must be in writing.</u> Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on Form WW2-B, a survey plat, WW-9, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

			Company		
Machant Einharter	Date	4/13/17	Name	Viking Energy Corporation	
Signature	_		Ву	Eric Pilikestoni Oil and Gas	4/13/17
Michael Pinkerton			Its	APP 104	Date
Print Name				Ein fahit 1917	4/13/17
Time Name				Sensor Department of	Date
				Seneture Department of Seneture Department Department of Seneture Department Departmen	3/2017

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Kanawha		111 B 11 B W	
Operator Viking Energy Corporation.	Operator's Well Numl	ber Wallace Unit #1	47-039-02219
INSTRUCTIONS TO CO	OAL OPERATOR, OW	NER, OR LESSEE	
To the coal operator, owner, or less any objection you wish to make or are required with the Chief of the Office of Oil and Gas by the Office. Mail objections to:	quired to make by WV (Code 22-6-15, 16 or 1	7, must be filed
Chief, Office of Oil and Gas Department of Environmental Protection 601 57 th St. SE Charleston, WV 25304 (304) 926-0499 extension 1654			
	WAIVER		
The undersigned coal operatorlocation has examined this proposed well location, the well location has been added work proposed to be done at this location, requirements of the West Virginia Code are	location. If a mine map to the mine map. The provided, the well ope	e exists which covers to undersigned has no rator has complied wit	the area of well objection to the
FOR EXECUTION BY A NATURAL PERSON One Bristyllo Date Signature		EXECUTION BY A CORPO	
Signature	By E	ric Pinkerton 1/ we President	Date 4/12/
		Signature Signature	4/13/17 Date
		RECEIVED Office of Oil and C	as

APR 1 4 2017

WV Department of Environmental Protection

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) 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
Triple B Lumber and Farming	Columbia Gas Transmission		2142/295
Columbia Gas Transmission	Viking Energy Corporation	100 %	2723/19

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 a cknowledges 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. nullifies the need for other permits/approvals that may be necessary and furtifier affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator:

By: Its:

WV Department of Vice President Eric Pinke Hon Vil Orn Tiental Protection

WW-2B1 (5-12)

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Sampling Contractor

Sturm Environmental Sturm Environmental

Well Operator Viking Energy Corporation.

Address

8113 Sissonville Dr.

Sissonville, WV 25320

Telephone

304-988-1161

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

> HECEIVED Office of Oil and Gas

> > APR 1 4 2017

WV Department of Environmental Protection

API Number 47	039	_ 2210	
Operator's Well N	No. Walla	ce Unit #1	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_ Viking Energy Corporation.	OP Code 51440
Watershed (HUC 10) Lower Kanawha	Quadrangle Pocatalico
Do you anticipate using more than 5,000 bbls of water to con	mplete the proposed well work? Yes No
Will a pit be used? Yes No	
If so, please describe anticipated pit waste: N/A	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
	vide a completed form WW-9-GPP)
Underground Injection (UIC Per	mit Number_2D0392210)
Reuse (at API Number Off Site Disposal (Supply form V	WW-9 for disposal location)
Other (Explain_	, w s for disposal location)
Very All for	
	ac fluids will come from tanks and be flowed back into tank post frac
Drilling medium anticipated for this well (vertical and horizon	ontal)? Air, freshwater, oil based, etc. N/A rework
-If oil based, what type? Synthetic, petroleum, etc.	N/A
Additives to be used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill, remov	ed offsite, etc. N/A
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number? N/A	
	d Gas of any load of drill cuttings or associated waste rejected at any led within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Cas of the West provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have personapplication form and all attachments thereto and that, based of the West provisions	or imprisonment.
Company Official (Typed Name) Eric Pinkerton	HECEIVED
Company Official Title Vice President	Office of Oil and Gas
	APR 1 4 2017
Subscribed and sworn before me this 13 ⁻¹³ day of	
Warmy K. Budgel	De Notary Public Notary Public Notary Public
My commission emires 11/5/2021	My Commission Expires
My commission expires 11/5/2021	November 05 029 28 / 201 PO BOX 13 0 3 / 25 3 6 0

Proposed Revegetation Treatment: Acres Disturbed 1	Preveg etation pl	I
Lime Three (3) Tons/acre or to correct to p	H 6.5	
Fertilizer type		
Fertilizer amount 500 #s	lbs/acre	
Mulch 2 tons Hay Mulch Tons	s/acre	
Se	ed Mixtures	
Temporary	Permar	ent
Seed Type lbs/acre Orchard Grass 40#	Seed Type	lbs/acre
Perennial Rye 40#	Same as area #1	
Landine Cloves 40#		
A Mala		
Plan Approved by: My Will	be used	
Plan Approved by: Municipal Approved by: Mo Pit or land application will Fluids will be contained in tanks and o		
Comments: No Pit or land application will	disposed of in UIC well	Berea at 2100 ft
Fluids will be contained in tanks and o	disposed of in UIC well	Berea at 2100 ft
Fluids will be contained in tanks and of Gas is being produced up 5 1/2" X 8	disposed of in UIC well 5/8 annulus from the E	RECEIVED
Fluids will be contained in tanks and o	disposed of in UIC well 5/8 annulus from the E	

WV Department of Environmental Protection 04/28/2017

	Page	of
API Number	47 - 039-2210 -	Viking Energy Cc
Operator's W	ell No. Wallace #1	

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

Operator Name: Viking Energy Corporat	ion	
Watershed (HUC 10): Lower Kanawha		Quad: Pocatalico
Farm Name: Wallace		
List the procedures used for the tre groundwater.	eatment and discharge of fluids. Includ	de a list of all operations that could contaminate the
steel tank. Flow back and wo will be injected in UIC 2D039 pose a threat are pressure pressur	ork-over lines will be secured a 2210 post operation and well	back and any return fluids will be to a and of proper pressure rating. All fluids has passed inspection. Operations that and the flow back/clean up after frac. No ntil completion.
2. Describe procedures and equipmen	nt used to protect groundwater quality	from the list of potential contaminant sources above.
any operations commence. steel tanks through secured	All fluids being used in reworlines with control valves. All e. All lines in all procedures were	grating to nearest water source before rk/treatment will be flowed back into fracturing lines will be pressure tested will be of sufficient pressure ratings and
List the closest water body, distardischarge area.	nce to closest water body, and distar	nce from closest Well Head Protection Area to the
Tuppers creek is nearest bo discharge.	dy and approximately 100 ft,	from wellhead. There will be no
4. Summarize all activities at your fac	cility that are already regulated for gro	undwater protection.
		testing is required on Class II fluids creek on a regular DESEIVED Office of Oil and Gas
		APR 1 4 2017

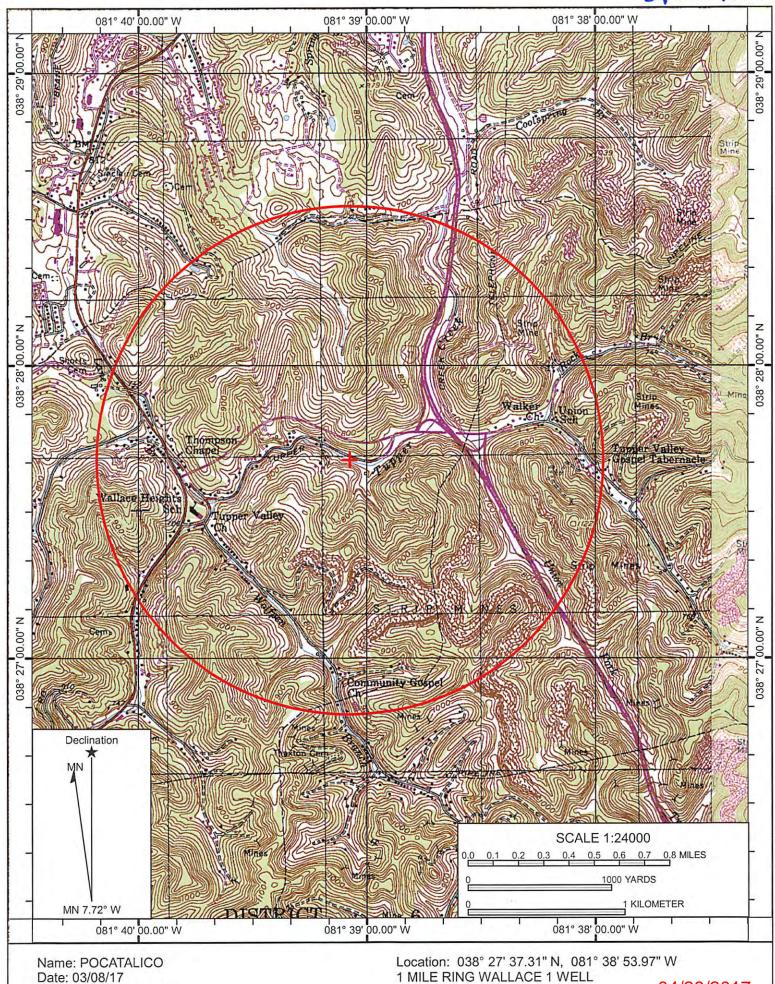
5. Discuss any existing groundwater quality data for your facility or an adjacent property.

04/28/2017

WV Department of Environmental Frotection

WW-9- GPP Rev. 5/16 Page of Michael Pinkertor
Operator's Well No, Wallace #1

All tests that have been performed at Tuppe An investigative Work Plan was recently con	ers Creek site has conformed to WVDEP standards. mpleted.
Provide a statement that no waste material will be used	for deicing or fill material on the property.
There will be no waste material used for dei	cing or fill material on the property.
Describe the groundwater protection instruction and to provide direction on how to prevent groundwater conta	raining to be provided to the employees. Job procedures shall unination.
lines. Containment booms and pads will be a equipment for immediate resolution. There we before operations commence. If a leak occur until any problems are resolved. In addition i at all times. All personnel on location have the	enced and are trained to control leaks from tanks or available on location to be placed around affected will be a pre-job meeting and instructions reviewed rs all operations will be immediately suspended it will be directed that all fluids are to be contained the right to stop work be it for safety or conform to the laws and regulations. (safety and
Provide provisions and frequency for inspections of all	GPP elements and equipment.
면서 그렇게 하는 것이 이번 에너 내는 이렇게 하고 없어졌다. 그러지 하면 세계 그렇게 이렇게 그렇게 하는 데 이렇게 하는 데 이렇게 되었다. 그런 아이들은 전하다면	nce will oversee the frac and everything associated. ation of containment equipment which will be on at least daily at pre-job meetings.
	HECEIVEL
Signature: Pur Pentint	Office of Oil and Gas
ignature	APP 1 4 2017
Date: 4/13/17	Wid Department of
	Environmental Pros

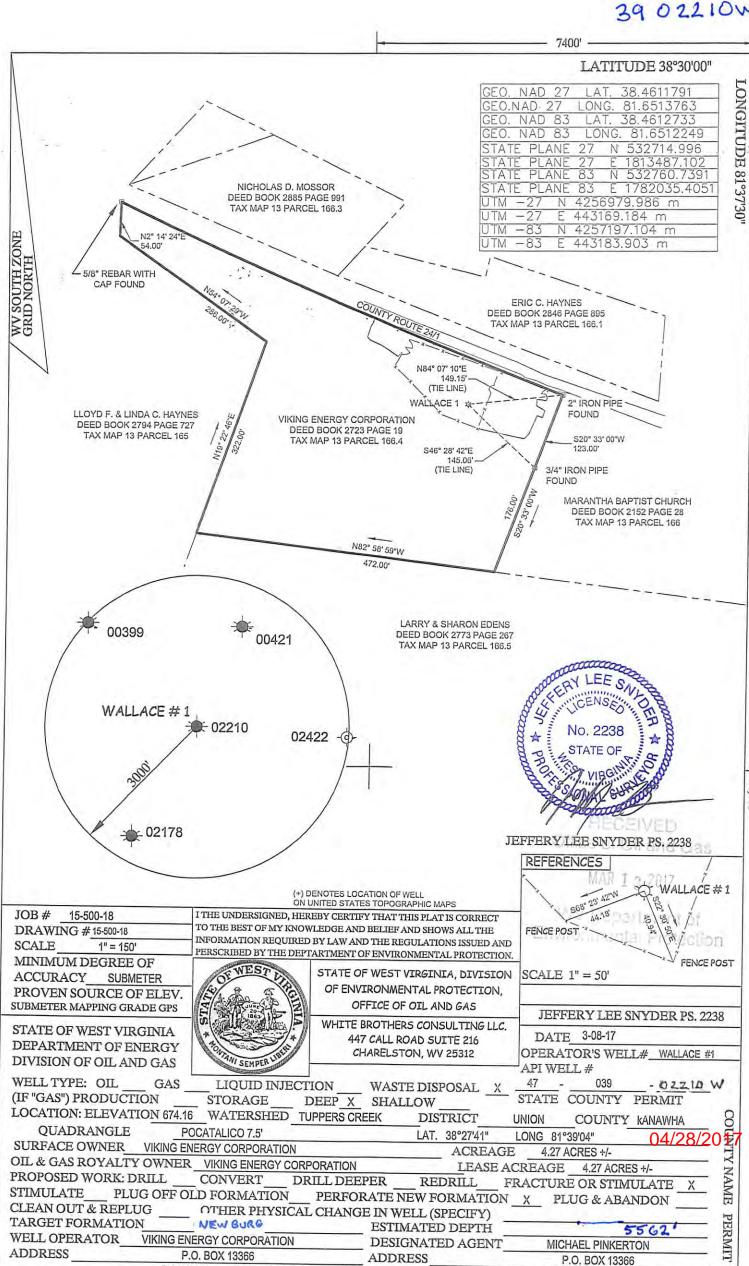


Scale: 1 inch = 2,000 ft.

1 MILE RING WALLACE 1 WELL

04/28/2017

SISSONVILLE, WV 25320



SISSONVILLE, WV 25320

FORM WW-6



