

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, January 9, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

CUNNINGHAM ENERGY LLC 3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Re: Permit approval for STUMP 1 47-039-06384-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: STUMP 1

Farm Name: HUFFMAN, PEARL & MAYFO

U.S. WELL NUMBER: 47-039-06384-00-00

Vertical Plugging Date Issued: 1/9/2019

LTB 1/9/19

47-039-06384P 01/11/2019

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1) Date OCTOBER 16	, Q12118/2019
2) Operator's Well No.STUMP#1	
3) API Well No. 47-039	0E384

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

5)	Location: Elevation 989	Watershed TRIBUTARY OF BIG SANDY
	District BIG SANDY	County KANAWHA Quadrangle CLIO 7.5'
6)	Well Operator CUNNINGHAM ENERGY, LL	C 7) Designated Agent RYAN CUNNINGHAM
Ÿ	Address 3230 PENNSYLVANIA AVE.	Address 1212 STAUNTON RD.
	CHARLESTON, WV 25302	CHARLESTON, WV 25302
8)	Oil and Gas Inspector to be notified Name TERRY URBAN	Name CUNNINGHAM ENERGY, LLC
	Address P.O. BOX 1207	Address 3230 PENNSYLVANIA AVE.
	CLENDENIN, WV 25045	CHARLESTON, WV 25302
1	PULL ALL PUMPS/TUBING/RODS.	RIG UP AND PULL ALL PRODUCTION L HOLE WITH GEL, SET SOLID PLUG NUMENT WITH API.
1	PULL ALL PUMPS/TUBING/RODS. CASING. TRIP TUBING TO TD, FIL	RIG UP AND PULL ALL PRODUCTION L HOLE WITH GEL, SET SOLID PLUG
1	PULL ALL PUMPS/TUBING/RODS. CASING. TRIP TUBING TO TD, FIL	RIG UP AND PULL ALL PRODUCTION L HOLE WITH GEL, SET SOLID PLUG NUMENT WITH API. RECEIVED
	PULL ALL PUMPS/TUBING/RODS. CASING. TRIP TUBING TO TD, FIL	RIG UP AND PULL ALL PRODUCTION L HOLE WITH GEL, SET SOLID PLUG NUMENT WITH API. RECEIVED Office of Oil and Gas

06384

WW-4A Revised 6-07

1) Date:	10/16/2018	
2) Opera	tor's Well Number	
STUMP #1		

3) API Well No.: 47 -

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

Address CHARLESTON, WV 25304 (b) Name Address CLENDENIN, WV 25045 (c) Name Address CLENDENIN, WV 25045 Address (c) Name Address Address (c) Name Address Address (c) Name Address Address (c) Coal Lessee with Declaration Name Address Telephone Terry Urban Po. Box 1207 CLENDENIN, WV 25045 Address Telephone Address Telep			(a) Coal Operator
(b) Name Address Address Address CLENDENIN, WV 25045 Address (c) Name Address Address (c) Name Address Address (c) Name Address (c) Coal Lessee with Declaration Name Address (d) Terry Urban Address (e) Coal Lessee with Declaration Name Address (f) The PERSONS NAMED ABOVE: You should have received this Form and the following documents: (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any setion at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator Well Operator CUNNINGHAM ENERGY, LLC By: RYAN CUNNINGHAM PRESIDENT	(a) Name	PEARL & MAYFORD HUFFMAN	Name
(b) Name Address P.O. BOX 847 CLENDENIN, WV 25045 (c) Name Address (d) Inspector Address (e) Name Address (f) Inspector Address (g) Inspector Address (g) Cal Lessee with Declaration Name Address (g) Telephone To THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: (g) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (g) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Well Operator CUNNINGHAM PRESIDENT	Address		Address
Address (c) Name Address Name Address (c) Name Address Name Address (c) Coal Lessee with Declaration Name Address Telephone Terry urban (c) Coal Lessee with Declaration Name Address Telephone 304-549-5915 To the persons Named Address (d) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (d) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator Cofficial Seal Well Operator CUNNINGHAM ENERGY, LLC By: RYAN CUNNINGHAM PRESIDENT		Parameter Continues and Contin	
(c) Name Address Name Address Name Address (c) Coal Lessee with Declaration Name Address Telephone Terry Urban (c) Coal Lessee with Declaration Name Address Telephone 304-549-5915 To The Persons Named Above: You should have received this Form and the following documents: (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator CUNNINGHAM ENERGY, LLC RYAN CUNNINGHAM PRESIDENT			
(c) Name Address Name Address (c) Coal Lessee with Declaration Name Address Telephone Other persons name and the following documents: (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: RYAN CUNNINGHAM ENERGY, LLC RYAN CUNNINGHAM PRESIDENT	Address		
Address Address CC Coal Lessee with Declaration Name CLENDENIN, WV 25045 Telephone TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: RYAN CUNNINGHAM ENERGY, LLC RYAN CUNNINGHAM PRESIDENT		CLENDENIN, WV 25045	Address
(c) Coal Lessee with Declaration Address P.O. BOX 1207 CLENDENIN, WV 25045 Telephone Official Saal Notary Public, Stale of West Virginia (c) Coal Lessee with Declaration Name Address (d) Coal Lessee with Declaration Name Address (e) Coal Lessee with Declaration Name Address (f) Coal Lessee with Declaration Name Address (g) Coal Lessee with Declaration Name Address (h) Address (g) The PERSONS NAMED ABOVE: You should have received this Form and the following documents: (g) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Pome WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator Well Operator CUNNINGHAM ENERGY, LLC By: RYAN CUNNINGHAM PRESIDENT	(c) Name		Name
Address P.O. BOX 1207 CLENDENIN, WV 25045 Telephone 304-549-5915 Name Address To the Persons Name Address To the application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator Well Operator Well Operator Well Operator CUNNINGHAM ENERGY, LLC By: RYAN CUNNINGHAM PRESIDENT	Address		Address
Address P.O. BOX 1207 CLENDENIN, WV 25045 Telephone 304-549-5915 Name Address To the Persons Name Address To the application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator Well Operator Well Operator Well Operator CUNNINGHAM ENERGY, LLC By: RYAN CUNNINGHAM PRESIDENT	6) Inspector	TERRY URBAN	(c) Coal Lessee with Declaration
Telephone CLENDENIN, WV 25045 304-549-5915 TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator Well Operator CUNNINGHAM ENERGY, LLC By: RYAN CUNNINGHAM PRESIDENT	Charles Control of	P.O. BOX 1207	
To the persons named Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator By: Well Operator By: CUNNINGHAM ENERGY, LLC RYAN CUNNINGHAM PRESIDENT		CLENDENIN, WV 25045	
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and (2) The plat (surveyor's map) showing the well location on Form WW-6. The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side However, you are not required to take any action at all. Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief. Well Operator Well Operator Well Operator Well Operator CUNNINGHAM ENERGY, LLC RYAN CUNNINGHAM PRESIDENT	Telephone		
Well Operator CUNNINGHAM ENERGY, LLC By: RYAN CUNNINGHAM Its: PRESIDENT	well (2) The The reason However, y Take notic accompany Protection, the Applic	its and the plugging work order; and plat (surveyor's map) showing the well location you received these documents is that you have rigou are not required to take any action at all. e that under Chapter 22-6 of the West Virginia Codying documents for a permit to plug and abandon a with respect to the well at the location described out on, and the plat have been mailed by registered	chts regarding the application which are summarized in the instructions on the reverses side. Ite, the undersigned well operator proposes to file or has filed this Notice and Application and well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental in the attached Application and depicted on the attached Form WW-6. Copies of this Notice, or certified mail or delivered by hand to the person(s) named above (or by publication in
Notary Public, State of West Virginia		Well Operator By:	CUNNINGHAM ENERGY, LLC RYAN CUNNINGHAM
	Notary Public,	State of West Virginia 3	3230 PENNSYLVANIA AVENUE

Subscribed and sworn before me this TH

6870 Crooked Run Road Ravenswood, WV 26164 My commission expires April 9, 2023

304-344-9291

CHARLESTON, WV 25302

My Commission Expires

Telephone

Notary Public

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 (5/16) 01/11/2019

API Number 47 - 039	_06384
Operator's Well No.	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CUNNINGHAM ENERGY, LLC OP Code 494508594
Watershed (HUC 10) TRIBUTARY OF BIG SANDY CREEK Quadrangle BIG SANDY
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP) Underground Injection (UIC Permit Number 392210-UIC Reuse (at API Number)
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain_
Will closed loop system be used? If so, describe: NO PIT WILL BE USED - ALL FLUIDS WILL BE PUT INTO A FLOWBACK TANK
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A
-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, removed 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
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title MEMBER
Subscribed and sworn before me this 14h day of October, 2018 Notary Public
My commission expires Official Seal Notary Public, State of West Virginia Tiffiny Long 6870 Crooked Run Roed Ravenswood, WV 26164 My commission expires April 9, 2023

01/11/2019

Proposed Revegetation Treatme	ent: Acres Disturbed	2.75	Preveg etation pH	
Lime3	Tons/acre or to correct	to pH6.5		
Fertilizer type	5-10-10	47		
Fertilizer amount	1/3	lbs/acre		
Mulch_ H	AY - 2	Tons/acre		
		Seed Mixtures		
Temp	porary		Permaner	nt
Seed Type	lbs/acre		ed Type	lbs/acre
KY-31	40	ORCHARI	RYE	15
ALSIKE CLOVER	5	ALSIKE CI	LOVER	5
ANNUAL RYE	15			
Attach: Maps(s) of road, location, pit a provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area.			
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.			
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.	ide water volume, include	dimensions (L, W	, D) of the pit, a
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.	ide water volume, include	dimensions (L, W	, D) of the pit, a
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.	ide water volume, include	dimensions (L, W	, D) of the pit, a
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.	ide water volume, include	dimensions (L, W	, D) of the pit, a
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.	ide water volume, include	dimensions (L, W	, D) of the pit, a
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.	ide water volume, include	dimensions (L, W	, D) of the pit, a
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet.	ide water volume, include	dimensions (L, W	, D) of the pit, a
Maps(s) of road, location, pit as provided). If water from the pit (L, W), and area in acres, of the Photocopied section of involve	will be land applied, prove land application area. d 7.5' topographic sheet. Rig Down 10000055	ide water volume, include	dimensions (L, W	, D) of the pit, a

WW-9- GPP Rev. 5/16

	Page	L of 2	
API Number 4	7 - 039	_ 06384	
Operator's Wall	No		

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

GROUNDWATER PROTECTION PLAN
Operator Name: CUNNINGHAM ENERGY, LLC
Watershed (HUC 10): TRIBUTARY OF BIG SANDY CREEK Quad: CLIO 7.5'
Farm Name:
 List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.
N/A NO PIT
2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.
N/A
 List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.
N/A
4. Summarize all activities at your facility that are already regulated for groundwater protection.
N/A

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

01/11/2019

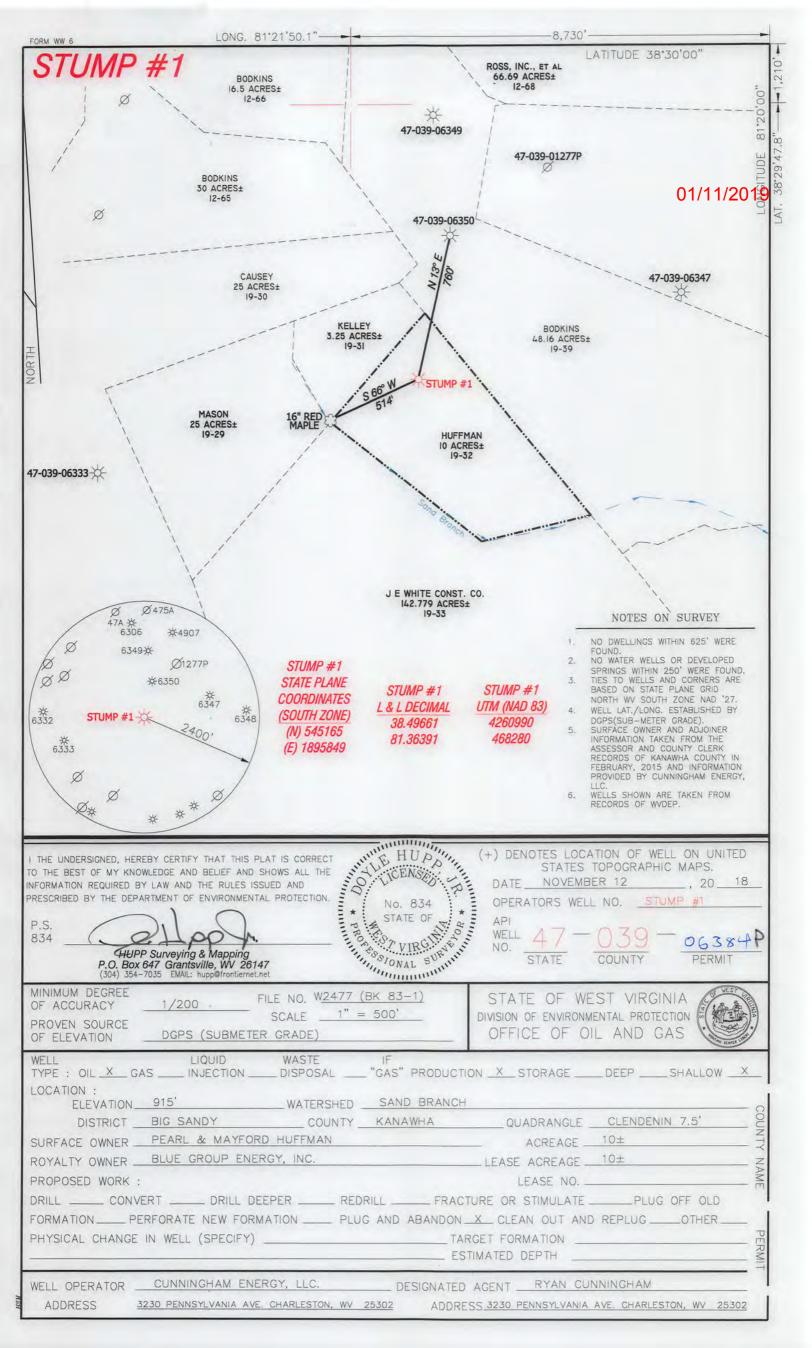
WW-9- GPP	Page 2 of 2
Rev. 5/16	API Number 47 - 039 - 06384
	Operator's Well No.
	$(/\lambda_1)$
N/A	
. Provide a statement that no waste material	will be used for deicing or fill material on the property.
N/A	
IN/A	
. Describe the groundwater protection inst	truction and training to be provided to the employees. Job procedures shall
provide direction on how to prevent ground	ndwater contamination.
AL/A	
N/A	
) b 🖎	
 Provide provisions and frequency for insp 	pections of all GPP elements and equipment.
NI/A	
N/A	
	5
Signature:	
Date:	

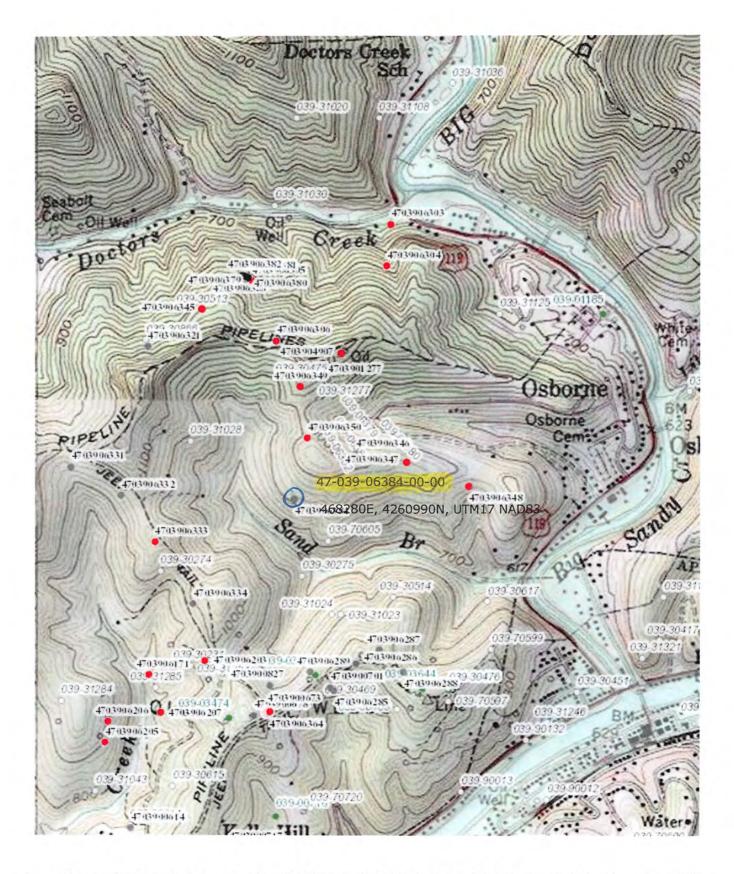
WW-7 8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: CPS

WELL LUCATION	ON FURIM; GPS
_{API:} 47-03906384	well no.: STUMP #1
FARM NAME: I.C. AND L.C. S	STUMP
RESPONSIBLE PARTY NAME: _ C U r	
COUNTY: KANAWHA	BIG SANDY
QUADRANGLE: CLIO 7.5'	
SURFACE OWNER: PEARL & MAYFORD H	SUFFMAN/DANIEL & LAURA BODKINS
ROYALTY OWNER: BLUE GRO	UP ENERGY, INC.
UTM GPS NORTHING: 4260990	
UTM GPS EASTING: 468 280	GPS ELEVATION: 915'
above well. The Office of Oil and Gas will not the following requirements: 1. Datum: NAD 1983, Zone: 17 North height above mean sea level (MSL 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Data Collection Method:	th, Coordinate Units: meters, Altitude:
Real-Time Diffe	
Mapping Grade GPS X: Post Processe	ed Differential
Real-Time D	ifferential X
4. Letter size copy of the topograph. I the undersigned, hereby certify this data is combelief and shows all the information required prescribed by the Office of Oil and Gas.	
Pro	31dept 10/16/2018
Signature	Title Date





 $http://deparcgis1/ooggis/index.html?x = 468280\&y = 4260990\&datum = NAD83\&pntlabel = 47-... \ \ 1/9/20190 = 1/20190$