

#### 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, October 16, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for 33898 47-033-05197-00-00

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: 33898

Farm Name: WARD, EVELYN MARIE

U.S. WELL NUMBER: 47-033-05197-00-00

Vertical Plugging
Date Issued: 10/16/2019

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. 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 September 3	, 2019
2)Operator's	***************************************
Well No. 33898	
3) APT Well No. 47-0	33 - 05197 P

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas _X _/ Liquid	d injection / Waste disposal /
		derground storage) Deep _X/ Shallow
	OI OIL	relgionid stolage Deep _x / Shallow
5)	Location: Elevation 985	Watershed West Fork River
	District Grant	County Harrison Quadrangle West Milford .
6)	Well Operator HG Energy II Appalachia, LLC	7) Designated Agent Diane White
	Address 5260 Dupont Road	Address 5260 Dupont Road
	Parkersburg, WV 26101	Parkersburg, WV 26101
8)	Oil and Gas Inspector to be notified	9)Plugging Contractor
	Name Sam Ward	Name To Be Determined Upon Approval of Permit
	Address P.O. Box 2327	Address
	Buckhannon, WV 26201	
	** See Attached She	eet for Plugging Manners **
		Office of Oil and Gas SEP 1 2 2019
		WV Department of Environmental Protection
-		
Notif work	ication must be given to the district oil can commence.	and gas inspector 24 hours before permitted
Work	order approved by inspector	Date 9/6/2019

API No

47-033-05197

Farm

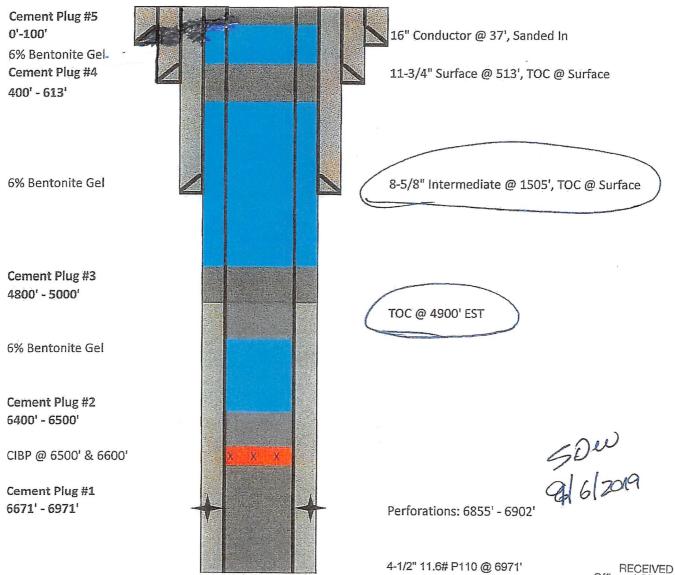
Ward, Evelyn Marie

Well#

33898

County

Harrison, WV



#### **PLUGGING PROCEDURE**

- 1 Run Tubing to TD
- 2 Establish Circulation w/ Fresh Water, Load Hole w/ Fresh Water
- 3 Set Cement Plug #1 (Balanced Plug), TOOH
- 4 Tag TOC, Set CIBP's w/ WL
- 5 TIH, Set Cement Plug #2 (Balanced Plug), TOOH
- 6 Cut and Recover 4-1/2" Casing
- 7 TIH, Set Cement Plug #3 (Balanced Plug), TOOH
- 8 Set Cement Plug #4 (Balanced Plug), TOOH
- 9 Set Cement Plug #5 (Balanced Plug), TOOH
- 10 Install Monument

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SEP 1 2 2019

WV Department of Environmental Protection 35 Nev (5-01) Page 1 of 2

# State of West Virginia Department of Environmental Protection

DATE: DEC 29, 2009 API No: 47-033-05197

Lease No: FK079962 & LC071243

### Office of Oil and Gas Well Operator's Report of Well Work

Farm Name: WARD, EVELYN M	MARIE	Operator	Well No. <u>33</u>	3898 Rev		_
LOCATION: Elevation: 985.01' Quadrangle: West Milford						
District: Grant		Coun	ty: Harrison			
-	Feet South of: 39		12 Min.	30 Sec.		
	Feet West of: 80		25 Min.	00 Sec.		
Company: Dominion Explorat	ion & Production,	-	-	W. S. 100 100 100		
		Casing and		Left in well		e
DO D. 1049		Tubing	drilling		up Cu. Ft.	-
Address: P.O. Box 1248				1		-
Jane Lew, WV 26378  Agent: Rodney J. Biggs						_ *
						-
	/2009		+			_
Date Well Work Commenced:	9/22/2009	16"	37'	37'	Sand In	-
Date Well Work Completed:	10/31/2009	10	31	- 31	- Ound III	
Verbal Plugging:	10/31/2007	11 3/4"	513'	513'	220 sks	-
Date Permission granted on:		1,3,1				
Rotary X Cable R	ig	8 5/8"	1505'	1505'	350 sks	_
Total Depth (feet): 6,986'	·B	3 2,0				_
	5',40',115',585'	4 1/2"	6971'	6971'	400 sks	_
Salt Water Depth (ft.): N/A				,		_
Is coal being mined in area (N/Y)						_
Coal Depths (ft.): 405'-425'						
Oil Depths (ft.):	N/A					- RECEIVED
OPEN FLOW DATA					Of	ffice of Oil and Gas
OPEN FLOW DATA						CED 4 0 0040
					•	SEP 1 2 2019
					V	W Department of
Producing formation MARCEL	LUS				55'-6902' Envi	VV Department of ronmental Protection
Gas: Initial production62	25MC	F/d	Oil: Initia	open flow_	0 Bbl/d	
Final open flowN	/A MC	F/d	Fina	l open flow	Bbl/d	
Time of open flow between	n initial and final tes	ts			Hours	
Initial Flowing Pressure 25	55	psi	g (surface pre	essure) after	Hours	
				,		
	*					
Second Producing formation			Pay zone	e depth (ft)		
Gas: Initial open flow*	MO	CF/d	Oil: Initial	-	* Bbl/d	
Final open flow *		CF/d		open flow	* Bbl/d	
Time of open flow between			2 2110		.14	
Static rock Pressure *	i iiiitiai and iiiiai test		(surface pres	cura) after	———Hours	
Static fock i fessure		parg	(Surface pres		* Hours	
NOTE: ON BACK OF THIS FORM PUT TH	E FOLLOWING: 1). D	ETAILS OF PE	RFORATED INT	TERVALS, FRAC	TURING	
OR STIMULATING, PHYSICAL CHANGE,						
GEOLOGICAL RECORD OF ALL FORMAT						
Signed:		M By	2	$\neg$		
	ney J. Biggs	1	med			
Date:	11/	30/04			Rev. (11/30/2009	<i>)</i> }

WELL: 33898 Rev DEPI

Page 2 of 2

10/31/2009 HALLIBURTON FRACED WELL AS FOLLOWS; PUMPED A

TOTAL OF 433,405 LBS OF 80/100 SAND AND 374,467 LBS OF 40/70 SAND.

TOTAL FLUID TO RECOVER 24,576 BBLS ATP 6721 PSI, ATR 84 BPM,

ISIP 4850 PSI, 15 MIN SIP 2950 PSI.

Fill	0	6	Clay	6	12
Milford Rock	12	22	Sand&Shale	<b>22</b> .	160
Sand	160	275	· Sand&Shale	275	298
Sand	298	405	Coal	405	425
Sand&Shale	425	861	Sand	861	964
Sand&Shale	964	1157	Little Lime	1157	1187
Sand&Shale	1187	1202	Big Lime	1202	

Sand&Shale	1187	1202		Big Lime	1202
		GAN	MA	•	
		BA	Y./		
		FORM	ATION .		
DEP! #33898 Rev		TO	PS		47-033-05197
			OP BASE	1	
BIG LIME	,		205 1264		
BIG INJUN SAND		1	265 1365		
GANTZ		1	580 1590		
FIFTY FOOT		1	696 1752		
THIRTY FOOT		1	780 1794		
GORDON		1	850 2011		
FOURTH SAND		2	038 2058		
FIFTH SAND		2	104 2124		
BAYARD		2	148 2164		
ELIZABETH		2	420 2516		
WARREN		2	546 2620		
SPEECHLEY		2	880 2830		
BALLTOWN		2	950 3058		
BRADFORD	•	3	520 3558		
FAULT		3	975		
BENSON		4:	258 4306		
LEOPLOD		4	430 4500		
ALEXANDER		4	590 4680		
THIRD ELK		4	330 4850		
SYCAMORE GRIT		6	107 6140		
BURKETT		6	6644		
TULLY		61	345 6685		
MARCELLUS		61	314 6914		
ONONDAGA		69	915 6946		7
HUNTERSVILLE		69	947		
LTD		69	994		

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Office of Oil and Gas

SEP 1 2 2019

WV Department of Environmental Protection

WW-4A Revised 6-07

1)	Date:	July 15, 2019
2)	Operator's	Well Number
389	8	

3) API Well No.: 47 -

33 - 05197 🏳

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

(a) Name	Evelyn M. Ward, c/o Rick	nard Ward	_ Name	NA	
Address	9496 Good Hope Road	<del>\</del>	Address		
(1 \ <b>)</b> \ <b>1</b>	Jane Lew, WV 26378	-	_	wner(s) with Declaration	
(b) Name	-		_ (b) Coal O	wner(s) with Declaration	
Address			_ Name Address		
			_ Address		
(c) Name			Name	1	
Address			- Address	F	
Address			– Address		
C) Imama atau	Sam Ward		- (a) Cool I c	essee with Declaration	
6) Inspector Address	P. O. Box 2327		_ (c) Coar Le Name	NA	
Address	Buckhannon, WV 26201		_ Address		
Telephone	304-389-7583		_ Address		
relephone	304-309-7303		_		
However, your Take notice accompanying Protection, the Applica	that under Chapter 22-6 or ng documents for a permit with respect to the well at t	iny action at all.  If the West Virginia Code to plug and abandon a v he location described or mailed by registered	e, the undersigned wel vell with the Chief of t in the attached Application or certified mail or d	lication which are summarized in the in Il operator proposes to file or has filed the Office of Oil and Gas, West Virgini tion and depicted on the attached Form lelivered by hand to the person(s) name	this Notice and Application and in Department of Environmental www-6. Copies of this Notice,
		Well Operator	HG Energy II Appala	achia, LLC	RECEIVED Office of Oil and Gas
OFFIC	IAL SEAL	By:	Diane White	Diane White	011100 01 011 011 01
	VEST VIRGINIA	Its:	Agent		
L MAN ALCO IN TO A CONTRACT AND A CO		Address	5260 Dupont Road		SEP <b>1 2 201</b> 9
NOTAF CASSIDY A	. BOARDMAN				
CASSIDY A 5301 13th Ave	Vienna, WV 26105		Parkersburg, WV 26	101	WV Department of
CASSIDY A 5301 13th Ave		Telephone	Parkersburg, WV 26 304-420-1119	101	

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 <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

September 3, 2019

Evelyn M. Ward c/o Richard Ward 9496 Good Hope Road Jane Lew, WV 26378

RE:

Ward No. 33898

Grant District, Harrison County

West Virginia

#### Dear Landowner:

Enclosed are copies of various application papers that we have filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a landowner are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

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Office of Oil and Gas

SEP 1 2 2019

WV Department of Environmental Protection

Enclosures

WW-9 (5/16)

API Number 47 - <sup>033</sup>	_05197 🏱	
Operator's Well No.		

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

PEOLDS/ COTTINGS DISTOSAL & RECLAMATION TEAM	
Operator Name HG Energy II Appalachia, LLC OP Code 494519932	
Watershed (HUC 10) West Fork River Quadrangle West Milford	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No	
If so, please describe anticipated pit waste:  Fluids encountered while plugging subject well will be shipped offsite to an approved landfill	
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)  Reuse (at API Number)	
Off Site Disposal (Supply form WW-9 for disposal location)  Other (Explain Fluids will be stored in tanks for offsite disposal	
Other (2:4) turn	
Will closed loop systembe used? If so, describe: No	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA	
-If oil based, what type? Synthetic, petroleum, etc. NA	
Additives to be used in drilling medium?NA	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Remove offsite	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement, lime and soil	
-Landfill or offsite name/permit number? To be determined upon approval of permit	
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 Cas 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 obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penaltics for of Oil and Complete information, including the possibility of fine or imprisonment.	Gas
Company Official Signature Diane White SEP 1 2 2019	9
Company Official (Typed Name) Diane White  Company Official Title Agent  MV Department of Environmental Protes	of.
Company Official Title Agent Environmental Prote	ction
Subscribed and sworn before me this 3rd day of 5 eptember, , 20 19	
Casaidy A. Boadon Notary Public OFFICIAL SEAL	
My commission expires 731 2022  Notary Public OFFICIAL SEAL STATE OF WEST VIRGINI NOTARY PUBLIC CASSIDY A. BOARDMA 5301 13th Ave Vienna, WV 2 My Commission Expires July 3:	N 16105
Con Contract	Aldemarking.

Form WW-9 Operator's Well No.\_\_\_\_\_ Proposed Revegetation Treatment: Acres Disturbed 0.5 acres Preveg etation pH \_\_\_\_\_ 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 500 lbs/acre Fertilizer amount Mulch Straw 2 Tons/acre **Seed Mixtures** Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Tall Fescue 40 Tall Fescue 40 **Ladino Clover** 5 Ladino Clover \*\*Sediment Control Will Be Maintained At All Times\*\* Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area. Photocopied section of involved 7.5' topographic sheet. S D Warrett Comments: Title: OOGInspector Date: 9/6/2019

Field Reviewed?

(\_\_V\_\_\_) Yes

N/A

WW-9- GPP Rev. 5/16

Page	1	of	2	
API Number 47 - 033		05197	P	
Operator's Well No.				

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

GROUNDWATER PROTECTION PLAN

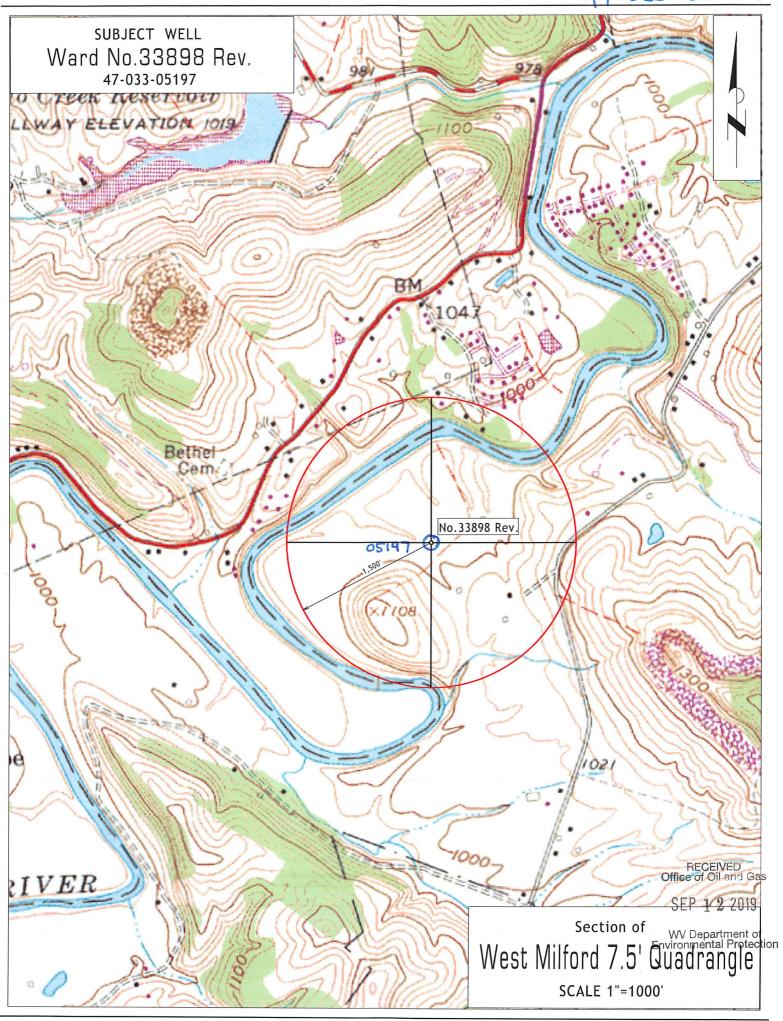
Operator Name: HG Energy II Appalachia, LLC	
Watershed (HUC 10): West Fork River	Quad: West Milford
Farm Name:	
<ol> <li>List the procedures used for the treatment and dischargroundwater.</li> </ol>	rge of fluids. Include a list of all operations that could contaminate the
NA	
2. Describe a new coduces and a quiement used to meste of an	oundwater quality from the list of potential contaminant sources above.
	oundwater quality from the list of potential contaminant sources above.
NA	
<ol><li>List the closest water body, distance to closest wate discharge area.</li></ol>	r body, and distance from closest Well Head Protection Area to the
NA	
Summarize all activities at your facility that are alread	y regulated for groundwater protection.
NIA.	
NA	RECEIVED Office of Oil and Gas
	SEP 1 2 319

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

N/A

Page 2 of 2
API Number 47 - 033 - 05197 P
Operator's Well No.

NA	
Provide	a statement that no waste material will be used for deicing or fill material on the property.
NA	
Describe provide	e the groundwater protection instruction and training to be provided to the employees. Job procedures shall direction on how to prevent groundwater contamination.
NA	
Provide	provisions and frequency for inspections of all GPP elements and equipment.
NA	
Signature:	Diane White
Date:	9-3-19



## West Virginia Department of Environmental Protection Office of Oil & Gas

# WELL LOCATION FORM: GPS

API: 47-	033 - 05197	WELL NO: 3389	28 Rev.
FARM NAME:	Evelyn Marie Ward		
RESPONSIBLE PARTY NAME: HG Energy, LLC			
COUNTY:	Harrison	DISTRICT: Gran	nt
QUADRANGLE:	West Milford 7.5'		
SURFACE OWNER:	Evelyn Marie Ward (LE)		
ROYALTY OWNER:	Evelyn Ward et al.		
UTM GPS NORTHING:	4,337,833	_	200 I
UTM GPS EASTING:	550,253	_GPS ELEVATION:	300 m.
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:  1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.  2. Accuracy to Datum - 3.05 meters  3. Data Collection Method:			RECEIVED Office of Oil and Gas SEP 1 2 2019
Survey Grade G	PS — Post Processed Differential Real-Time Differential		WV Department of Environmental Protection
Mapping Grade	GPS X Post Processed Differential Real-Time Differential	X	
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.			
Diane White	Diane C. White	Designated Agent	
Signature Title			
August 30, 2019  Date			