

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

Tuesday, January 29, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit approval for NAYS 1209 N-6H

47-033-05939-00-00

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: NAYS 1209 N-6H

Farm Name: HG ENERGY II APPALACHLA

U.S. WELL NUMBER: 47-033-05939-00-00

Horizontal 6A New Drill Date Issued: 1/29/2019

API Number:	

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. 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 § 22-6A-5a (12), 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	
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PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47		
OPERATOR WELL	NO.	Nays 1209 N-6H
Well Pad Name:	Nays 1	209

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

1) Well Operat	or: HG En	ergy II Appa	alachia, 🛔	49451	9932	Harrison	Union	West Milford 7.5'
•					tor ID	County	District	Quadrangle
2) Operator's V	Well Number	.: Nays 120	9 N-6H		_ Well Pa	ad Name: N	ays 1209	
3) Farm Name/	Surface Own	ner: Nays/HG	Energy II App	palachia]	Public Ro	ad Access:	Kincheloe Ru	n Rd/SLS 35
4) Elevation, c	urrent groun	d: <u>1002'</u>	El	evation,	proposed	d post-consti	ruction: 1007'	
5) Well Type	(a) Gas Other	X	_ Oil		Unc	derground S	torage	
	(b)If Gas	Shallow	х		Deep			_
6) Existing Pac	l: Yes or No	Horizontal No						57W 10/22/2018
7) Proposed Ta	ırget Formati			•		•	ed Pressure(s):	
8) Proposed To	otal Vertical	Depth: 690	0'					
9) Formation a		· · · · · · · · · · · · · · · · · · ·	Marcellus	<u> </u>				
10) Proposed T	otal Measur	ed Depth:	23,028'					
11) Proposed H	Horizontal Le	eg Length:	14757'					
12) Approxima	ate Fresh Wa	ter Strata De	pths:	135', 5	500'			
13) Method to	Determine F	resh Water I	Depths: 1	Vearest	offset we	ell data		
14) Approxima	ate Saltwater	Depths: No	one noted	in offse	ts			
15) Approxima	ate Coal Sear	n Depths: 6	60' to 66	5'				
16) Approxima	ate Depth to	Possible Voi	d (coal mi	ine, kars	st, other):	None	· · · · · · · · · · · · · · · · · · ·	
17) Does Propo directly overly					es		No X	
(a) If Yes, pro	ovide Mine I	nfo: Name	:				REC	EIVED
(w) II 1 00, pro	. 140 111110 1	Depth					Office of (Social Gas
		Seam					NOV 1	4 2018
		Owne					WV Depa	Ittmont of
						Ĺ	Environment	al Protection

WW-6B (04/15) API NO. 47-_

OPERATOR WELL NO. Nays 1209 N-6H

Well Pad Name: Nays 1209

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	100'	100'	Drilled In
Fresh Water	20"	NEW	J-55	94	600'	600'	40% excess,yield =1.20,CTS
Coal	13 3/8"	NEW	J-55	54.5	1635'	1635'	40% excess yield = 1.20,CTS
Intermediate	9 5/8"	NEW	J-55	40	2500'	2500'	40% excess yield Lead/ 0% Excass Tell
Production	5 1/2"	NEW	P-110	23	23028'	23028'	20% excess yield = 1.19, tail yield = 1
Tubing							
Liners			-				

50W 10/22/2018

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500			-	CTS
Fresh Water	20"	24"	.438	2110	1200	Type 1, Class A	30 % excess yield = 1.20, CTS
Coal	13 3/8"	17 1/2"	.380	2730		Type 1/Class A	40% excess yield = 1.20, CTS
Intermediate	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	40% axcass yield = 0% Excess Lead, 40
Production	5 1/2"	8 1/2"	.415	14520	12500	Type 1/ClassA	20% excess yield = 1.19, tell yield 1.94.0
Tubing							
Liners							

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Office of Cil and Gas

PACKERS

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Kind:		ı	WV Department of Environmental Protection
Sizes:			in the second second
Depths Set:	-		

WW-6B
(10/14)

API NO. 47		
OPERATOR WELL	NO.	Nays 1209 N-6H
Well Pad Name:	Nays 1	209

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6900 feet. Drill horizontal leg to estimated 14757 TMD, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 12,500 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.148 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 10.834 acres
- 23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater - centralized every 3 joints to surface.
Coal - Bow Spring on every joint.
Coal - Bow Spring on terry joint.
Intermediate - Bow Spring on first 2 joints then every third joint to 100' from eurface.
Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

24) Describe all cement additives associated with each cement type:

Conductor -NIA, Casing to be delied in wi Dual Rosary Rig.
Frosh Water - 15 8 pag PRI-1 + 3% bwoc CaCl, 40% Excess Yield = 1.20, CTS
Call -Lacet 154 ppg PRI-1 + 2.5% bwoc CaCl, 40% Excess Yield = 1.20, CTS
Call -Lacet 154 ppg PRI-1 + 2.5% bwoc CaCl, 40% Excess 7 tal: 15.3 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS
Informedate - Lacet 154 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tal: 15.3 ppg, PNE-1 + 2.5% bwoc CaCl, 20% Excess, Tal: 15.3 ppg PNE-1 + 2.5% bwoc CaCl, 20% Excess, CTS
Production - Lacet 1.45 ppg PNE-PNE-1 + 4.25% bwoc CaCl, 40% Excess, Tal: 15.3 ppg, PNE-1 + 2.5% bwoc CaCl, 20% Excess, Tal: 15.3 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tal: 15.3 ppg, PNE-1 + 2.5% bwoc CaCl, 20% Excess, Tal: 15.3 ppg PNE-1 + 2.5% bwoc CaCl, 40% Excess, Tal: 15.3 ppg, PNE-1 + 2.5% bwoc CaCl, 20% Excess, Tal: 15.3 ppg PNE-1 + 2.5% bwoc CaCl,

25) Proposed borehole conditioning procedures:

Office of Oil and Gas

Coal - Once casing is a seeing depth, Circulate and condition of TD. Circulate a minimum of one hole volume prior to pumping cement.

Intermediate - Once cases pile at seeting depth, Circulate and condition and at TD. Circulate a minimum of one hole volume prior to pumping cement.

Production - Once on bottom/TD with casing, circulate at max allowable pump rate for a least 2x bottoms up, or until returns prior to pumping cement.

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WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

Nays 1209 Well Pad (N-1H to N-6H, S-7H to S-12H) <u>Cement Additives</u>

Material Name	Material Type	Material Description Premium NE-1 is a	CAS#	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1 - 5	1305-78-8
mium NE-1	Portland Cement	strength properties.	Magnesium oxide Crystaffine silica: Quartz (SiO2)	1 - 5 0.1 - 1	1309-48-4 14808-60-7
		The second section of			
		Commonly called gel, it is a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free water.	2.73.00.00.00.00.00.00.00.00.00.00.00.00.00	12.12	1,000
tonite	Extender				
		A powdered, flaked or	The second secon	la.	love
		pelletized material used to decrease thickening	Ingredient name Calcium chloride	90 - 100	CAS number 10043-52-4
		time and increase the rate	Sustain attende	00 100	100,000
ium Chloride	Accelerator	of strength development			
ani chionac	Accelerator	w 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7			
		Graded (3/8 to 3/4 inch) cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
o Flake	Lost Circulation				
		5.4 A& 2 1			
		FP-13L is a clear liquid organic phosphate			
		antifoaming agent used in	Interestinate name	l oz	CAS
		cementing operations. It is very effective	Ingredient name Tributyl phosphate	% 90 - 100	CAS number 126-73-8
		minimizing air	asy prospriate	30 2 100	120-13-3
		entrapment and			
		preventing foaming tendencies of latex			
		systems.			
13L	Foam Preventer				
		Used to retard coment	Ingredient name	%	CAS number
nulated Sugar	Retarder	Used to retard cement returns at surface.	Sucrose	90 - 100	57-50-1
	2000	A proprietary product			
		that provides expansive properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
i.		temperatures.			
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss, rheology, and gas	No hazardous ingredient	REC	EWED
A-170	Gas Migration	migration.		Office of (Ill and Con
		A synthetic pozzolan,			CAS CAS
		(primarily Silicon Dioxide).		NOV 1	Ill and Gas 4 2018
		When blended with cement, Pozzolan can be	Ingredient name		CAS number
		used to create	Ingredient name Crystalline silica: Quartz (SiO2)	% 5 - 10	14808-60-7
		lightweight cement slurries used as either a	Calcium oxide	1-5	1305-78-8
		filler slurry or a sulfate		- Introdutient	ed Protection
		resistant completion			
(Fly Ash)	Base	cement.			
		A low townserstors			
		A low temperature retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend		(40.00)	
		the chienrithisbanian time			
	Retarder	the slurry thickening time.			
	Retarder	the slurry thickening time.		94	CAS number
	Retarder	the slurry thickening time.	Ingredient name 2-Butoxyethanol	% 20 - 30	CAS number 111-76-2
	Retarder		Ingredient name 2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.
í	Retarder	the slurry thickening time. Used to water wet casing and formation to facilitate	Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides Alkylanysulfonate amine salt	20 - 30	111-76-2



1209 N-6H Marcellus Shale Horizontal Harrison County WV

							Harrison County, WV					
							1209 N	N-6H SHL 237394.8N 1732372.24E				
round Ele	evatio	n		1007	•		1209	N-6H L		238712.06N 1734876.74E		
Azm		340.737°			1209 N	N-6H BH	IL.	1	252642.42N 173000	8.6E		
WELLBORE D	IAGRAM		HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
			30"	30" 157.5#				AIR	N/A, Casing to be drilled	N/A	Ensure the hole is clean at	Conductor casing = 0.5" w
		х		LS	Conductor	0	100		in w/ Dual Rotary Rig		TD,	thickness
				201					15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w
		x	24"	20" 94# J-55	Fresh Water	0	135, 500	AIR	40% Excess	joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi
x	,				Fresh Water	0	600		Yield=1.20 / CTS		pumping cement.	50/3(-2/10 53/
					Kittaning Coal	660	665		Lead: 15.4 ppg PNE-1 +		Once casing is at setting	
			47.0	13-3/8" 68#	Little/Big Lime	1126 / 1167	1151 / 1243		2.5% bwoc CaCl 40% Excess / Tail: 15.9	Bow Spring on every	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.480" wall thickness Burst=3450 psi
x)	<	17.5"	J-55 BTC	Injun / Gantz (Storage)	1243 / 1535	1349 / 1585	Salt Polymer	ppg PNE-1 + 2.5% bwoc	joint	minimum of one hole	
					Intermediate 1 (Shoe 50' below storage)	0	1635		CaCl zero% Excess. CTS		volume prior to pumping cement.	
х	X	-			Fifty / Thirty Foot	1650 / 1730	1697 / 1742		Lead: 15.4 ppg PNE-1 +	Bow Spring on first 2 joints then every third	Once casing is at setting	
				9-5/8" 40# J-55 BTC	Gordon Stray / Gordon	1785 / 1850	1850 / 1940	AIR / KCL	2.5% bwoc CaCl 40% Excess / Tail: 15.9		depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.39 wall thickness Burst=3950 psi
			12,25"		5th Sand	2035	2070	Salt Polymer	ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form		
x	X				Bayard Sand	2125	2160	Folymer	CaCl zero% Excess. CTS	surface		
					Intermediate 2	0	2500		Zelo% Excess. 013			
X	X				Speechley	2745	2763	-		Run 1 spiral centralizer	r	
		-	8.5" Vertical	3.5" Vertical	3.5" Vertical	Balltown	SOPM Lead: 14.5 ppg	1 44 5 000	every 5 joints from the			
		꾶	3.3 (3.3)		Benson	4050	4083	SOBM	POZ:PNE-1 + 0.3%	top of the curve to surface.		Production casing = 0.415" wall thickness Burst=14520 psi
		Mice.			West Falls	4620	5865		bwoc R3 + 1% bwoc		Once on bottom/TD with	
		10	22		Rhinestreet	5865	6140		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc		Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or unti returns and pump pressures indicate the hole is clean. Circulate a	
		2	5	5-1/2"	Cashaqua	6140	6341		MPA170 Tail: 14.8 ppg PNE-1 +			
X	X	黑		23#	Middlesex	6341	6421	11,5ppg-	0.35% bwoc R3 + 0.75			
	T S	5/1/0	8.5" Curve	P-110 HC CDC HTQ	West River	6421	6514	12.5ppg SOBM	gal/sk FP13L + 50% bwoc ASCA1 + 0.5%	Run 1 spiral centralizer		Note:Actual centralizer schedules may be change
	3	0	7	CDCHIQ	Burkett	6514	6540	CODIN	bwoc MPA170	every 3 joints from the	minimum of one hole	due to hole conditions
		137			Tully Limestone	6540	6644		20% Excess Lead Yield=1.19	1st 5.5" long joint to the	volume prior to pumping	
		SE			Hamilton	6644	6863		Tail Yield=1.94 CTS	top of the curve.	cement.	
3					Marcellus	6863	6914	11.5ppg-				
			8.5" Lateral		TMD / TVD (Production)	23028	6900	12.5ppg SOBM				
X	X				Onondaga	6914						
	LP		: X :0' TVD / 8271' MD	X	8	A:::::::::::::::::::::::::::::::::::::		.	.	+/-1475	57' ft Lateral	TD @ +/-6900' TVD +/-23028' MD

List of Frac Additives by Chemical Name and CAS

Nays 1209 Well Pad (N-1H to N-6H, S-7H to S-12H)

Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
		0
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	Enyn
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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V Department of Inmuntal Protection WW-9 (4/16)

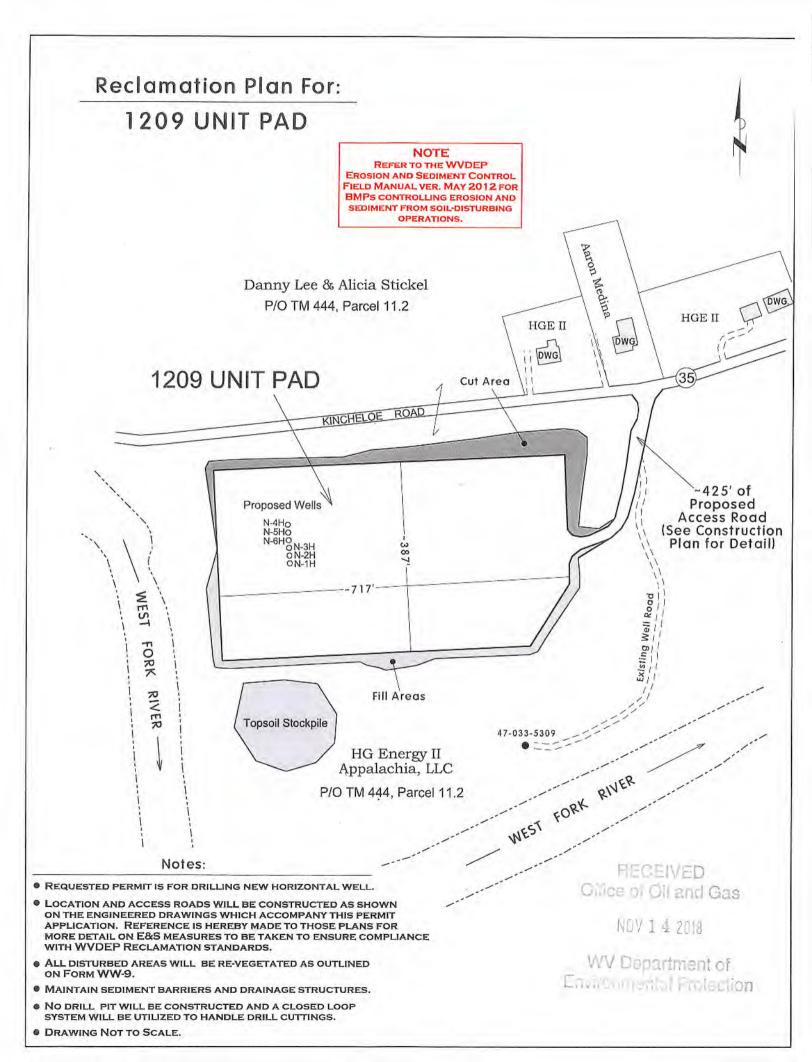
API Number 47 -		
Operator's	Wall No Nove 1200 N.SH	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FEUIDS/ CUTTINGS DISI	POSAL & RECLAMATION PLAN
Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) West Fork	Quadrangle West Milford 7.5'
Do you anticipate using more than 5,000 bbls of water to comp Will a pit be used? Yes No V	plete the proposed well work? Yes No No
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes	No ✓ If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	No [V] If so, what ml.?
Land Application	10124
Underground Injection (UIC Perm	it Number)
Reuse (at API Number TBD - At next	
Off Site Disposal (Supply form W) Other (Explain	N-9 for disposal location)
Will closed loop system be used? If so, describe: Yes, cuttings and fi	uids will be collected in a closed loop drilling system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizon	tal)? Air, freshwater, oil based, etc. Air, Freshwater and SOBM
-If oil based, what type? Synthetic, petroleum, etc5	Synthetic
Additives to be used in drilling medium? Water, Soap, KCl, Bar	ite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, removed	1 offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium will be	e used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See Attache	d List
	Gas of any load of drill cuttings or associated waste rejected at any d within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action. I certify under penalty of law that I have personall application form and all attachments thereto and that, base obtaining the information, I believe that the information is penalties for submitting false information, including the possible of the control of the co	conditions of the GENERAL WATER POLLUTION PERMIT issued diriginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment.
D. 110.3	- Kana a
company official (Typed Name)	NUV 1 = = 1.8
Company Official Title Agent	WV Detailment of
10 A C 10	Linkinghthersel Fig. Stight
Subscribed and sworn before me this 19th day of C	October , 20_18 OFFICIAL SEAL
- Calse	Notary Public Notary Public NOTANY PUBLIC STATE OF WEST NAME AND ANALYSCHALL HG Energy LLC
My commission expires $11/2/2021$	PO Box 5519, Vienna, WV 2811 My Commission Expires November

Proposed Revegetation Treat	ment: Acres Disturbed 16.	.148 Prevegetation pl	ĭ
Lime	3 Tons/acre or to correct	to pH 6.5	
Fertilizer type10	-20-20		
Fertilizer amount	500	Olbs/acre	
_{Mulch} Hay	2 -	Tons/acre	
		Seed Mixtures	
Те	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
attach: flaps(s) of road, location, pirrovided). If water from the creage, of the land applicati	and proposed area for land pit will be land applied, incluon area.	ing and completion process application (unless engineered plans include dimensions (L x W x D) of the pit, and	
Attach: Maps(s) of road, location, pirorovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	and proposed area for land pit will be land applied, inch on area. ved 7.5' topographic sheet. Mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and	regulation.
Attach: Maps(s) of road, location, pirorovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	and proposed area for land pit will be land applied, inch on area. ved 7.5' topographic sheet. Mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and	regulation.
Attach: Maps(s) of road, location, pirorovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	and proposed area for land pit will be land applied, inch on area. ved 7.5' topographic sheet. Mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and	regulation.
Attach: Maps(s) of road, location, pirorovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	and proposed area for land pit will be land applied, inch on area. ved 7.5' topographic sheet. Mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and see reasonably possible per EP E&S manual.	regulation. Profive of Cite
Attach: Maps(s) of road, location, pirorovided). If water from the acreage, of the land application application of involution of the land approved by: Plan Approved by: Comments: Pre-seed	and proposed area for land pit will be land applied, inch on area. ved 7.5' topographic sheet. Mulch as soon as	application (unless engineered plans included dimensions (L x W x D) of the pit, and see reasonably possible per EP E&S manual.	regulation.



Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1875 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

Wáste Management 200 Rangos Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 8297 US Highway 19 Cochranton, PA 16914 814-425-7773

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08488 11 County Road 78 Amsterdam, OH 48909 740-548-4989

Westmoreland Waste, LLC Permit # 100277 111 Conner Lane Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R80-078001 05-2010 4301 Sycamore Ridge Road Hurrleane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071 233 Max Lane Yukon, PA 25968 724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1801 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 9100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1.488 Dawson Drive Bridgeport, WV 26380

Brooks County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED

Office of Oil and Gas

NOV 1 4 2018

WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 804-455-3800

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1.560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 221-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 330-892-0164

Nabors Completion & Production Services Co. PO Box 975682 Dallas, TX 75397-5682

Select Energy Services, LLC PO Box 203997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Cialraville, OH 43950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15801

Disposal Locations:

Solidification
Waste Management, Arden Landfili Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-225-1589

Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20753
6065 Arrel-Smith Road
Lowelville, OH 44436
930-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 48812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Oilfield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, Inc.
Office of Oil and Gas
1380 Rta. 286 Hwy. E, Sulta 303
Indiana, PA 15701
NOV 1 4 2018

Solo Construction V/V Department of P.O. Box 544 Environmental Pretection St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisle, PA 17015

Myers Well Service, ____ 2001 Ballpark Court Export, PA 15682

Burns Drilling & Excavating 618 Crabapple Road P.O. Bow Wind Ridge, PA 15880

Nichlos 1-A (SWIW #18) Permit # 8862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 719-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 514-648-8898 740-796-6495 Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 612-478-6545

Adams #8 (Buckeye Brine, LLC) Permit #84-031-2-7241-00-00 2580 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 18)
Permit # 34-157-2-5511-00-00
5367 E. State Street
Newcomerstown, OH 43832
740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Corappolis, PA 15108 412-829-7275

SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Olifield Services, Inc.
2939 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

OH UIC #1 Bu keya UIC Barnesville 1 & 2 CNX Gas Com. Jany, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

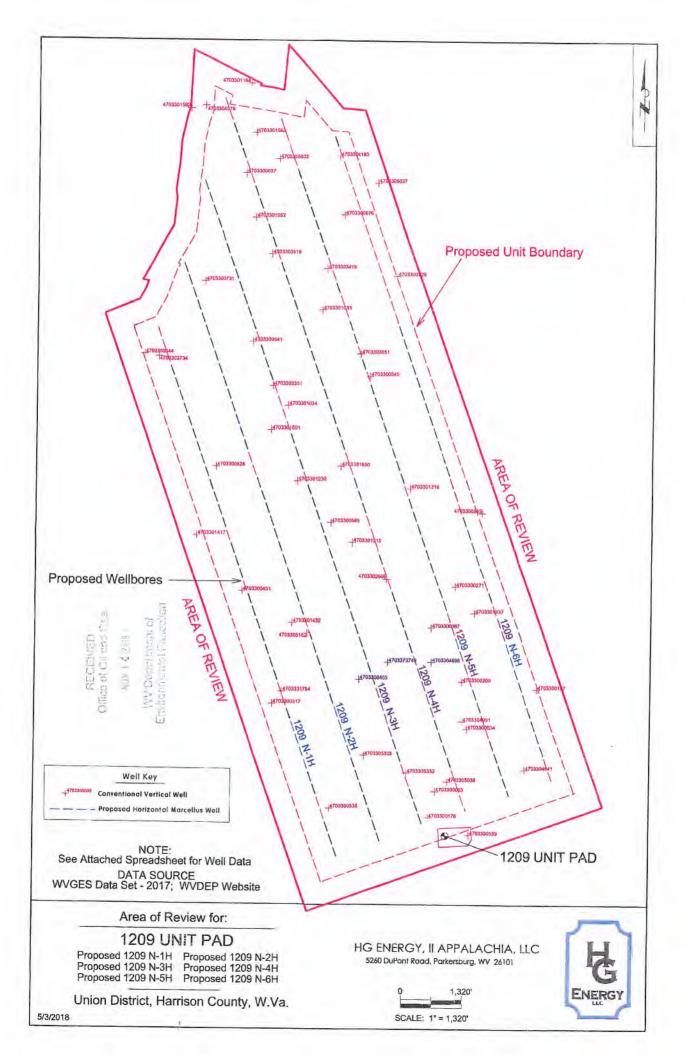
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4187-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-768-3966

RECEIVED
Office of Oil and Gas

NOV 1 4 2018

WV Department of Environmental Protection



EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

1209 UNIT PAD AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H & N-6H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300063	HARRISON	J A Hardway	Dominion Energy Transmission Inc.	Gantz	Storage	1,636	ACTIVE	39.150649	-80.444245
2	4703300087	HARRISON	V B Washburn	Dominion Energy Transmission Inc.	Gordon Stray	Observation	1,850	ACTIVE	39.160372	-80.444617
3	4703300176	HARRISON	Jerome B Gusman	Dominion Energy Transmission Inc.	Gantz	Storage	1,542	ACTIVE	39.149066	-80.444789
4	4703300197	HARRISON	Leeman Maxwell	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2,102	ACTIVE	39.156758	-80.436440
5	4703300200	HARRISON	E Southern 2	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1,926	ACTIVE	39.157179	-80.442196
6	4703300271	HARRISON	Mary Burnside	Hope Natural Gas Company	Greenland Gap Fm	Gas	2,765	PLUGGED	39.162840	-80.442754
7	4703300455	HARRISON	Mary S Deison	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1,720	ACTIVE	39.157324	-80.450208
8	4703300491	HARRISON	M G Law	Dominion Energy Transmission Inc.	Benson	Gas	4,261	ACTIVE	39.162549	-80.459266
9	4703300517	HARRISON	J S Law	Dominion Energy Transmission Inc.	Benson	Gas	4,400	ACTIVE	39.155873	-80.456916
10	4703300526	HARRISON	WTLaw	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	4,491	ACTIVE	39.169962	-80.461316
11	4703300534	HARRISON	Mallie Jenkins	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4,140	ACTIVE	39.154422	-80.441823
12	4703300538	HARRISON	Nays Riverbend Farms Inc	Dominion Energy Transmission Inc.	Benson	iii Gas	4,310	ACTIVE	39.149632	-80.452444
13	4703300539	HARRISON	Nays Riverbend Farm Inc	Dominion Energy Transmission Inc.	Benson	Gas Gas	4,115	ACTIVE	39.148035	-80.441636
14	4703300540	HARRISON	Wm Burnside	Dominion Energy Transmission Inc.	Greenland Gap Fm	□ ⊕ Gas □ ⊟	4,775	ACTIVE	39.175333	-80.449463
15	4703300541	HARRISON	Harriet Washburn	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas S	4,561	ACTIVE	39,177365	-80,458520
16	4703300545	HARRISON	Mary Burnside	Dominion Energy Transmission Inc.	Benson	O Gas	4,225	ACTIVE	39.167206	-80.440704
17	4703300576	HARRISON	Jacob P Post	Dominion Energy Transmission Inc.	Benson	Gas	4,323	ACTIVE	39.184912	-80.451513
18	4703300585	HARRISON	G W Washburn	Dominion Energy Transmission Inc.	Balltown	Gas	3,228	ACTIVE	39.166613	-80.452444
19	4703300637	HARRISON	Jacob McConkey	Dominion Energy Transmission Inc.	Benson	Gas	4,525	ACTIVE	39.187396	-80.459080
20	4703300728	HARRISON	Jacob P Post	Dominion Energy Transmission Inc.	Balltown	Gas	3,129	ACTIVE	39.181284	-80.447414
21	4703300944	HARRISON	Harriett Washburn 1	Jackson Fuel Corp.	Big Injun (Grnbr)	Dry	2,070	PLUGGED	39.176639	-80.466907
22	4703301033	HARRISON	Jacob P Post	EQT Production Co.	Benson	Gas	4,360	ACTIVE	39.179252	-80.453189
23	4703301034	HARRISON	W M Burnside	EQT Production Co.	Benson	Gas	4,487	ACTIVE	39.173591	-80.455799
24	4703301164	HARRISON	D H Hilkey	Greylock Conventional, LLC	Benson	Gas	4,443	ACTIVE	39.192749	-80.458707
25	4703301230	HARRISON	Brenda Tuckwiller	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4,595	ACTIVE	39.169092	-80.455053
26	4703301315	HARRISON	M Burnside	Dominion Energy Transmission Inc.	Big Lime	Gas	1,213	ACTIVE	39.165452	-80.450767
27	4703301316	HARRISON	M Burnside	Dominion Energy Transmission Inc.	NA	Gas	- 2-1	PLUGGED	39.168657	-80.446294
28	4703301417	HARRISON	Paul McDonald	Dominion Energy Transmission Inc.	Alexander	Gas	4,782	ACTIVE	39.165887	-80.462806
29	4703301432	HARRISON	M G Law	Dominion Energy Transmission Inc.	Hampshire Grp	Gas	2,264	NA	39,160667	-80.455411
30	4703301552	HARRISON	J McConkey	Dominion Energy Transmission Inc.	NA	Gas	2.7	ACTIVE	39.184766	-80.458335
31	4703301553	HARRISON	J McConkey	Dominion Energy Transmission Inc.	NA	NA	- 3	PLUGGED	39.189847	-80.458334
32	4703301592	HARRISON	G McConkey	Ross & Wharton Gas Co, Inc.	NA	NA	-8	ACTIVE	39.191297	-80.463366

34 4703301601 HARRISON W Burnside Dominion Energy Transmission Inc. Hampshire Grp Gas 2,243 PLIGGED 39.172140 -80.4 35 4703301937 HARRISON Margaret J Bodkin Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,260 ACTIVE 39.161247 -80.4 36 4703302666 HARRISON G W Riffee Dominion Energy Transmission Inc. Benson Gas 2,370 PLUGGED 39.176639 -80.4 37 4703303051 HARRISON W M Burnside Dominion Energy Transmission Inc. Hampshire Grp Gas 2,370 PLUGGED 39.176639 -80.4 38 47033031731 HARRISON Harry W Post Dominion Energy Transmission Inc. Hampshire Grp Storage 2,028 ACTIVE 39.18093 -80.4 40 4703303734 HARRISON Charles Reich Enervest Operating, LLC Greenland Gap Fm Gas 5,058 ACTIVE 39.180913 -80.4 41 4703304183 HARRISON Charles N Tyr								,			
35	33	4703301600	HARRISON	W Burnside	Dominion Energy Transmission Inc.	Hampshire Grp	Gas	2,337	PLUGGED	39.169963	-80.451700
36	34	4703301601	HARRISON	W Burnside	Dominion Energy Transmission Inc.	Hampshire Grp	Gas	2,243	PLUGGED	39.172140	-80.457103
37 4703303051 HARRISON W M Burnside Dominion Energy Transmission Inc. Hampshire Grp Gas 2,370 PLUGGED 39.176639 -80.4 38 4703303418 HARRISON Harry W Post Dominion Energy Transmission Inc. Hampshire Grp Storage 2,028 ACTIVE 39.181719 -80.4 39 4703303731 HARRISON Charles Reich Enervest Operating, LLC Greenland Gap Fm Gas 5,004 ACTIVE 39.180993 -80.4 40 4703303734 HARRISON James D Sexton Jr Enervest Operating, LLC Greenland Gap Fm Gas 5,058 ACTIVE 39.186993 -80.4 41 4703303919 HARRISON James D Sexton Jr Enervest Operating, LLC Greenland Gap Fm Gas 4,650 ACTIVE 39.186911 -80.4 42 4703304183 HARRISON Jean P Rapking Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,558 ACTIVE 39.188411 -80.4 43 4703304376 HARRISON June S Hann	35	4703301937	HARRISON	Margaret J Bodkin	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4,260	ACTIVE	39.161247	-80.441255
38 4703303418 HARRISON Harry W Post Dominion Energy Transmission Inc. Hampshire Grp Storage 2,028 ACTIVE 39.181719 -80.4 39 4703303731 HARRISON Charles Reich Enervest Operating, LLC Greenland Gap Fm Gas 5,004 ACTIVE 39.180993 -80.4 40 4703303734 HARRISON James D Sexton Jr Enervest Operating, LLC Greenland Gap Fm Gas 5,058 ACTIVE 39.176493 -80.4 41 4703303919 HARRISON Charles N Tyre etux Berry Energy Inc. Greenland Gap Fm Gas 4,650 ACTIVE 39.182611 -80.4 42 4703304183 HARRISON Jean P Rapking Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,558 ACTIVE 39.18411 -80.4 43 4703304376 HARRISON June S Hanner Consol Gas Co. Greenland Gap Fm Gas 4,700 ACTIVE 39.191457 -80.4 44 4703304641 HARRISON William B Ferrell Jr Dominion Energy Transmission Inc. Benson Gas 4,264 ACTIVE 39.151966 -80.4 45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.158347 -80.4 46 4703304991 HARRISON John E Jr & Lee M Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.188266 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.186816 -80.4 48 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	36	4703302666	HARRISON	G W Riffee	Dominion Energy Transmission Inc.	Benson	Gas	4,325	ACTIVE	39.163278	-80.448100
39 4703303731 HARRISON Charles Reich Enervest Operating, LLC Greenland Gap Fm Gas 5,004 ACTIVE 39.180993 -80.4 40 4703303734 HARRISON James D Sexton Jr Enervest Operating, LLC Greenland Gap Fm Gas 5,058 ACTIVE 39.176493 -80.4 41 4703303919 HARRISON Charles N Tyre etux Berry Energy Inc. Greenland Gap Fm Gas 4,650 ACTIVE 39.182611 -80.4 42 4703304183 HARRISON Jean P Rapking Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,558 ACTIVE 39.188411 -80.4 43 4703304376 HARRISON June S Hanner Consol Gas Co. Greenland Gap Fm Gas 4,700 ACTIVE 39.191457 -80.4 44 4703304641 HARRISON William B Ferrell Jr Dominion Energy Transmission Inc. Benson Gas 4,264 ACTIVE 39.151966 -80.4 45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.158347 -80.4 46 4703304991 HARRISON John E Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.188266 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.188266 -80.4 48 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	37	4703303051	HARRISON	W M Burnside	Dominion Energy Transmission Inc.	Hampshire Grp	Gas	2,370	PLUGGED	39.176639	-80.450209
40 4703303734 HARRISON James D Sexton Jr Enervest Operating, LLC Greenland Gap Fm Gas 5,088 ACTIVE 39.176493 -80.4 41 4703303919 HARRISON Charles N Tyre etux Berry Energy Inc. Greenland Gap Fm Gas 4,650 ACTIVE 39.182611 -80.4 42 4703304183 HARRISON Jean P Rapking Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,558 ACTIVE 39.188411 -80.4 43 4703304376 HARRISON June S Hanner Consol Gas Co. Greenland Gap Fm Gas 4,700 ACTIVE 39.191457 -80.4 44 4703304641 HARRISON William B Ferrell Jr Dominion Energy Transmission Inc. Benson Gas 4,264 ACTIVE 39.151966 -80.4 45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.158347 -80.4 46 4703304991 HARRISON John E Jr & Lee M Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.188266 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.188161 -80.4 48 4703305037 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.15141 -80.4	38	4703303418	HARRISON	Harry W Post	Dominion Energy Transmission Inc.	Hampshire Grp	Storage	2,028	ACTIVE	39.181719	-80.452817
40 4703303734 HARRISON James D Sexton Jr Enervest Operating, LLC Greenland Gap Fm Gas 5,058 ACTIVE 39.176493 -80.4 41 4703303919 HARRISON Charles N Tyre etux Berry Energy Inc. Greenland Gap Fm Gas 4,650 ACTIVE 39.182611 -80.4 42 4703304183 HARRISON Jean P Rapking Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,558 ACTIVE 39.182611 -80.4 43 4703304376 HARRISON June S Hanner Consol Gas Co. Greenland Gap Fm Gas 4,700 ACTIVE 39.191457 -80.4 44 4703304641 HARRISON William B Ferrell Jr Dominion Energy Transmission Inc. Benson Gas 4,264 ACTIVE 39.151966 -80.4 45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.154867 -80.4 46 4703304991 HARRISON John E Jr & Lee M Pau	39	4703303731	HARRISON	Charles Reich	Enervest Operating, LLC	Greenland Gap Fm	Gas	5,004	ACTIVE	39.180993	-80.462247
42 4703304183 HARRISON Jean P Rapking Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,558 ACTIVE 39.188411 -80.4 43 4703304376 HARRISON June S Hanner Consol Gas Co. Greenland Gap Fm Gas 4,700 ACTIVE 39.191457 -80.4 44 4703304641 HARRISON William B Ferrell Jr Dominion Energy Transmission Inc. Benson Gas 4,264 ACTIVE 39.151966 -80.4 45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.158347 -80.4 46 4703304991 HARRISON John E Jr & Lee M Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.154867 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,450 ACTIVE 39.188266 -80.4 48 4703305037 HARRISON Post Heritage LLC Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.186816 -80.4 49 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	40	4703303734	HARRISON	James D Sexton Jr		Greenland Gap Fm	Gas	5,058	ACTIVE	39.176493	-80.465788
43 4703304376 HARRISON June S Hanner Consol Gas Co. Greenland Gap Fm Gas 4,700 ACTIVE 39.191457 -80.4 44 4703304641 HARRISON William B Ferrell Jr Dominion Energy Transmission Inc. Benson Gas 4,264 ACTIVE 39.151966 -80.4 45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.158347 -80.4 46 4703304991 HARRISON John E Jr & Lee M Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.154867 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,450 ACTIVE 39.186816 -80.4 48 4703305037 HARRISON Post Heritage LLC Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.186816 -80.4 49 4703305038 HARRISON N	41	4703303919	HARRISON	Charles N Tyre etux	Berry Energy Inc.	Greenland Gap Fm	Gas	4,650	ACTIVE	39.182611	-80.457101
44 4703304641 HARRISON William B Ferrell Jr Dominion Energy Transmission Inc. Benson Gas 4,264 ACTIVE 39.151966 -80.4 45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.158347 -80.4 46 4703304991 HARRISON John E Jr & Lee M Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.154867 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,450 ACTIVE 39.188266 -80.4 48 4703305037 HARRISON Post Heritage LLC Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.186816 -80.4 49 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	42	4703304183	HARRISON	Jean P Rapking	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4,558	ACTIVE	39.188411	-80.451886
45 4703304698 HARRISON John E Paugh Jr Dominion Energy Transmission Inc. Price Fm & equivs Gas 1,488 ACTIVE 39.158347 -80.4 46 4703304991 HARRISON John E Jr & Lee M Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.154867 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,450 ACTIVE 39.188266 -80.4 48 4703305037 HARRISON Post Heritage LLC Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.186816 -80.4 49 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	43	4703304376	HARRISON	June S Hanner	Consol Gas Co.	Greenland Gap Fm	Gas	4,700	ACTIVE	39.191457	-80.462248
46 4703304991 HARRISON John E Jr & Lee M Paugh Dominion Energy Transmission Inc. Weir Gas 1,503 ACTIVE 39.154867 -80.4 47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,450 ACTIVE 39.188266 -80.4 48 4703305037 HARRISON Post Heritage LLC Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.186816 -80.4 49 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	44	4703304641	HARRISON	William B Ferrell Jr	Dominion Energy Transmission Inc.	Benson	Gas	4,264	ACTIVE	39.151966	-80.437340
47 4703305032 HARRISON James S. Jenkins Dominion Energy Transmission Inc. Greenland Gap Fm Gas 4,450 ACTIVE 39.188266 -80.4 48 4703305037 HARRISON Post Heritage LLC Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.186816 -80.4 49 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	45	4703304698	HARRISON	John E Paugh Jr	Dominion Energy Transmission Inc.	Price Fm & equivs	Gas	1,488	ACTIVE	39.158347	-80.444606
48 4703305037 HARRISON Post Heritage LLC Dominion Energy Transmission Inc. Greenland Gap Fm Gas 5,126 ACTIVE 39.186816 -80.4 49 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	46	4703304991	HARRISON	John E Jr & Lee M Paugh	Dominion Energy Transmission Inc.	Weir	Gas	1,503	ACTIVE	39.154867	-80.442184
49 4703305038 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Weir Gas 1,428 ACTIVE 39.151241 -80.4	47	4703305032	HARRISON	James S. Jenkins	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4,450	ACTIVE	39.188266	-80.456545
Way stiverbeild rainfill. Common Energy Iransmission III.	48	4703305037	HARRISON	Post Heritage LLC	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	5,126	ACTIVE	39.186816	-80.448904
50 4703305162 HARRISON Sharon S McDonald Dominion Energy Transmission Inc. Weir Gas 1,640 PLUGGED 39.160078 -80.4	49	4703305038	HARRISON	Nay's Riverbend Farm Inc	Dominion Energy Transmission Inc.	Weir	Gas	1,428	ACTIVE	39.151241	-80.443300
	50	4703305162	HARRISON	Sharon S McDonald	Dominion Energy Transmission Inc.	Weir	Gas	1,640	PLUGGED	39.160078	-80.454245
51 4703305332 HARRISON Nay's Riverbend Farm Inc Dominion Energy Transmission Inc. Big Injun (Grnbr) Gas 1,469 ACTIVE 39.151781 -80.4	51	4703305332	HARRISON	Nay's Riverbend Farm Inc	Dominion Energy Transmission Inc.	Big Injun (Grnbr)	Gas	1,469	ACTIVE	39.151781	-80.446467
52 4703305333 HARRISON Nay's Riverbend Farm Inc Consol Gas Co. WELL WAS NOT DRILLED 39.152819 -80.4	52	4703305333	HARRISON	Nay's Riverbend Farm Inc	Consol Gas Co.	WELL WA	S NOT DRILLED			39.152819	-80.449784
53 4703305351 HARRISON William M McDonald Consol Gas Co. WELL WAS NOT DRILLED 39.174766 -80.4	53	4703305351	HARRISON	William M McDonald	Consol Gas Co.	WELL WA	S NOT DRILLED			39.174766	-80.456970
54	54										

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

RECEIVED
Office of Oil and Gas
NOV 1 4 2018

WV Department of

HG Energy II Appalachia, LLC

Site Safety Plan

1209 Unit Well Pad
327 Gooseman Rd Jane Lew
Harrison County, WV 26378

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RECEIVED

NOV 1 4 2018

May 2018: Version 1

WV Department of Environmental Protection

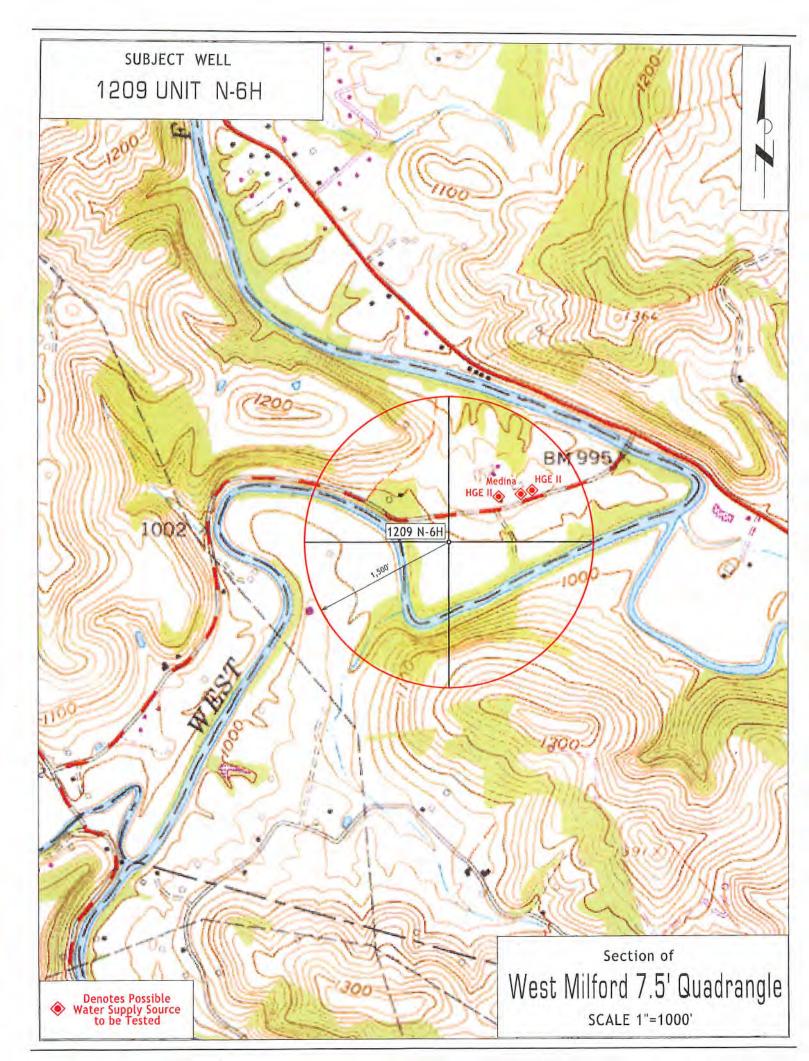
For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

SPW 10/22/2018

HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101



BHL is located on topo map 6,745 feet south of Latitude: 39 12 30 feet south of Latitude: 39 10 00 SHL is located on topo map SEE PAGE 2 FOR PLAT LATERAL SEE PAGE 3 FOR SURFACE OWNERS 0. W. LESSOR J. B. GUSMAN ET AL DIST-TM/PAR 20-444/11.2 12-444/13 12-444/14 ted 12-424/51 12-424/52.1 12-424/45.8 12-424/46 EDMOND SOUTHERN ET UX L. B. MAXWELL ET AL PAUL S. HORNOR ET AL 99 WM BURNSIDE ET AL 12-424/45.5 12-424/27.1 12-424/56 12-424/45.6 12-424/45.1 12-424/27 12-424/24 12-424/4 12-424/45.2 12-424/54 WILLIAM BURNSIDE ET AL 12-424/3 12-424/5 WILLIAM AND RUHAMA BURNSIDE 12-424/2 20-404/5 G 20-404/37 20-404/32.2 20-404/32.10 20-404/32.7 20-404/32.6 9,9 J P POST ET AL Longitude: Longitude: DETAIL "A" 20-404/32 80 LEGEND 25 - TOPO MAP POINT 80 - WELL - ALL ARE POINTS UNLESS OTHERWISE NOTED. 0 33-00545 (A) - LESSORS - SURFACE OWNERS - PARCEL LINES 1 - LEASE BOUNDARY 10 - WELL REFERENCE (15) - PROPOSED HORIZONTAL WELL - ROAD - STREAM CENTER LINE = - DETAIL WELLS WITHIN 2400' - EXISTING WELLS - PLUGGED WELLS - ABANDONED WELLS I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS 1209 N-6H PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY 1209 N-6H LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. PLACE SEAL HERE Signed: PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.81' R.P.E.: L.L.S.: P.S. No. 2000 (+) DENOTES LOCATION OF WELL ON DATE: OCTOBER 24, 2018 UNITED STATES TOPOGRAPHIC MAPS OPERATOR'S WELL#: 1209 N-6H API WELL #: 05939 33 STATE COUNTY PERMIT X Production Well Type: Oil Waste Disposal Deep X Gas Liquid Injection Storage X Shallow MIDDLE WEST FORK CREEK ELEVATION: HARRISON / UNION WEST MILFORD, WV 7.5' QUADRANGLE: _ HG ENERGY II APPALACHIA, LLC ACREAGE: 95.06± ACREAGE: 1014.105± OIL & GAS ROYALTY OWNER: ANN COVINGTON, ET AL DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): TVD: 6,900'± TMD: 23,029'± MARCELLUS ESTIMATED DEPTH: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT 5260 DUPONT ROAD

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M) N:4333350,30 E:548091.02 UTM 17-NAD83(FT) N:14217000.10

E:1798195.30 LAT/LON DATUM-NAD83 LAT:39,148021

APPROX. LANDING POINT

UTM 17-NAD83(M) N:4333764.31 E:548847.34 UTM 17-NAD83(FT)

N:14218358.40 E:1800676.67

LAT/LON DATUM-NAD83 LAT:39.151709 LON:-80.434682

BOTTOM HOLE LOCATION (BHL)

N:4337983.53 E:547293.58 UTM 17-NAD83(FT) N:14232200.96 E:1795579.01

LON:-80.452368

22

Blue Mountain

11023 MASON DIXON HIGHWAY BURTON, WV 26552 PHONE: (304) 662-6486

1" = 2000'

DRAWING #:

WVDEP

MINIMUM DEGREE OF ACCURACY:

OFFICE OF OIL & GAS 601 57TH STREET

WATERSHED:_

COUNTY/DISTRICT: _

SURFACE OWNER:_

TARGET FORMATION:

5260 DUPONT ROAD

State WV

Zip Code 26101

City

PARKERSBURG

State

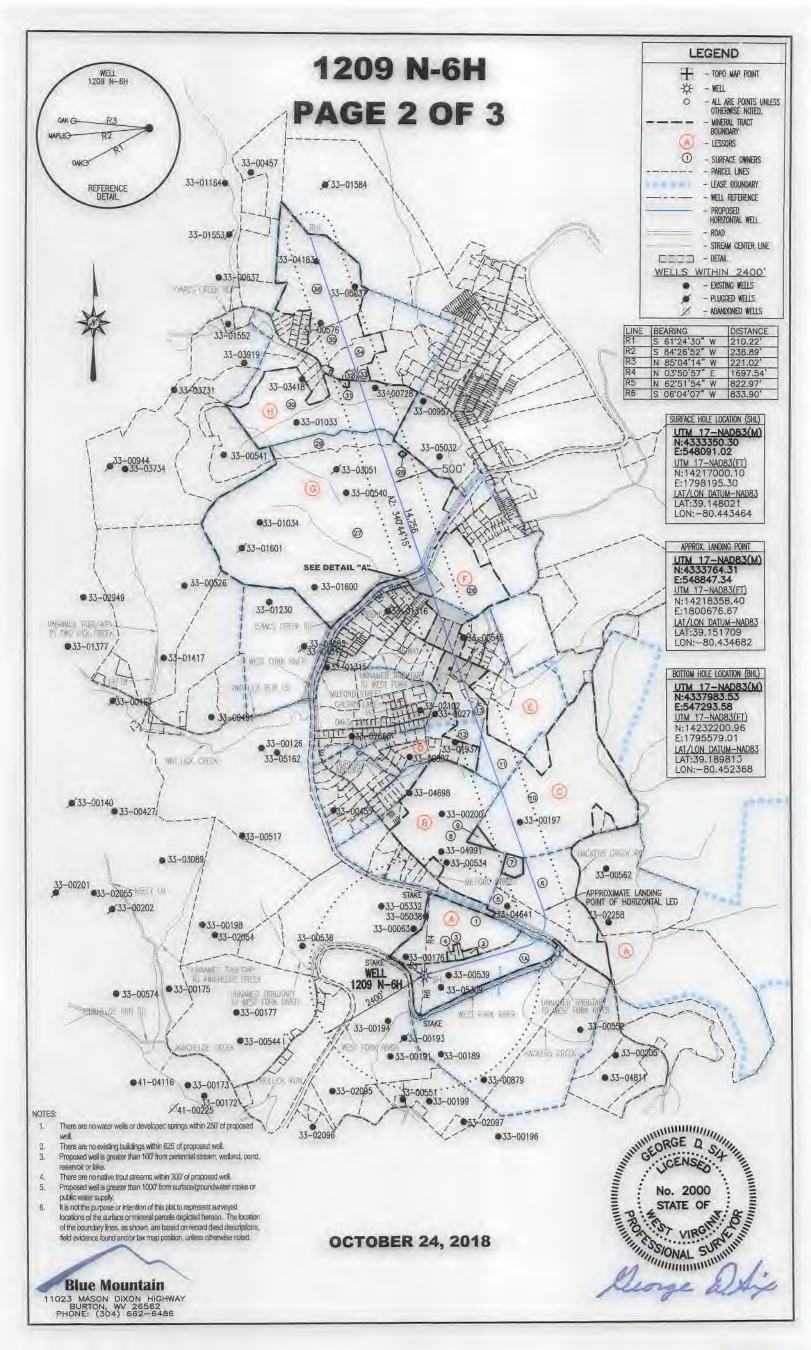
Zip Code 26101

WELL OPERATOR

City PARKERSBURG

CHARLESTON, WV 25304

LON:-80.443464



1209 N-6H PAGE 3 OF 3

	SURFACE OWNER	DIST-TM/PAR
1	DANNY LEE & ALICIA A. STICKEL	P/0 20-444/11.2
1A	HG ENERGY II APPALACHIA, LLC	P/0 20-444/11.2
2	HG ENERGY II APPALACHIA, LLC	20-444/11.3
3	AARON C. & CHRISTINA P. MEDINA	20-444/11
4	HG ENERGY II APPALACHIA, LLC	20-444/11.1
5	WILLIAM BRUCE, JR. & CONNIE C. FERRELL	12-444/13
6	ROBERT J. BRIGHTBILL	12-444/14
7	ROBERT J. BRIGHTBILL	12-424/51.3
8	JOHN E., JR. & LEE M. PAUGH	12-424/51
9	JOHN E., JR. & LEE M. PAUGH	12-424/52.4
10	ROBERT J. BRIGHTBILL	12-424/52.1
11	EDWARD MICHAEL BODKIN	12-424/46
12	GREGORY J. & KIMBERLY D. BODKIN	12-424/45.8
13	EARL J. & CHARLOTTE HEATER	12-424/45.5
14	STACI M. COTTRILL & D. DAVIS MICKY	12-424/45.6
15	*CHARLOTTE ANN HEATER	12-424/56
16	STACI M. COTTRILL & MICKY D. DAVIS	12-424/45.2
17	KAZIMIER A. & PAMELA L. KAPIS	12-424/45.1
18	GREATER HARRISON COUNTY PUBLIC SERVICE DISTRICT	12-424/27.1
19	VIVIAN K. ABLES	12-424/27
20	GARY R. & CHYRL L. DRUMMOND	12-424/54
21	CARL R. KROSMICO	12-424/25
22	CARL R. KROSMICO	12-424/24
23	CARL R. KROSMICO	12-424/20
24	JOE M. & KAREN S. GONZALEZ	12-424/4
25	LISA D. GOFF	12-424/3
26	JOSEPH HARRY MASON	12-424/5
27	WILLIAM MICHAEL MCDONALD	12-424/2
28	GREATER HARRISON COUNTY PUBLIC SERVICE DISTRICT	20-404/58
29	PERRY LEE & DEBORAH JEAN POST	20-404/57
30	PERRY LEE & DEBORAH JEAN POST	20-404/43
31	JASON A. & JENNIFER E. POST	20-404/43.8
32	MORRELL E., JR. & MAJORIE R. RAPKING	20-404/32.2
33	PATRICIA R. & WILLIAM T. DOUGLAS	20-404/32.10
34	MORRELL EDWARD, JR. & MAJORIE R. RAPKING	20-404/32.7
35	NANCY JEAN MURPHY	20-404/32.6
36	POST HERITAGE LLC	20-404/32

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

SURFACE HOLE LOCATION (SH.)

UTM 17—NADB3(M)
N:4333350.30
E:548091.02

UTM 17—NADB3(FT)
N:14217000.10
E:1798195.30

LAT/LON DATUM—NADB3
LAT:39.148021
LON:—80.443464

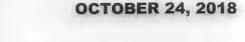
APPROX. LANDING POINT
UTM 17—NAD83(M)
N:4333764.31
E:548847.34
UTM 17—NAD83(FT)
N:14218358.40
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LAT/LON DATUM—NAD83
LAT:39.151709
LON:—80.434682

BOTTOM HOLE LOCATION (BHL)

UTM. 17—NADB3(M)
N:4337983.53
E:547293.58

UTM. 17—NADB3(FT)
N:14232200.96
E:1795579.01

LAT/LON DATUM—NADB3
LAT:39.189813
LON:—80.452368





WW-6A	1
(5/13)	

Operator's Well No.	Nays 1209 N-6H
---------------------	----------------

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:

Lease Name or
Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page

"See Attached Sheets"

RECEIVED
Office of Ciliand Gas

NOV 1 4 2018

WV Department of Environmental Protection

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: HG Energy II Appalachia, LLC

By: Diane White Diane White

Its: Agent

WW-6A1
(5/13)

Operator's Well	No.	Nays	1209	N-6H
-----------------	-----	------	------	------

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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Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

"See Attached Sheets"

RECEIVED
Office of Cil and Gas

NOV 1 4 2018

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- U.S. Fish and Wildlife Service
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Well Operator:	HG Energy II Appalachia, LLC			
By:	Diane White	Diane	White	
Its:	Agent			

1209 N-6H LEASE CHAIN - HG Energy II Appalachia, LLC
--

	LEGACY LEASE							i
RACT#	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PA
				J.B. GUSMAN AND ADALINE GUSMAN	TREAT AND CRAWFORD	NOT LESS THAN 1/8	158	
				TREAT AND CRAWFORD	UNITED FUEL GAS COMPANY	ASSIGNMENT	226	
	l I	17-20-0444-0011-0000,		UNITED FUEL GAS COMPANY	FAYETTE COUNTY GAS COMPANY	ASSIGNMENT	UNRECORDED	
	17-20-0444-0011-0001,		FAYETTE COUNTY GAS COMPANY	HOPE NATURAL GAS	ASSIGNMENT	201		
		17-20-0444-0011-0002,		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY COMPANY	MERGER/NAME CHANGE	903	
	1	17-20-0444-0011-0003,		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
	1	17-20-0444-0012-0000,		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	1	17-12-0444-0013-0000,		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		17-12-0444-0014-0000,	Q100370000	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1409	
Α	FK020606	17-12-0444-0021-0000,	Q100370000	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1442	
	ŀ	17-12-0444-0021-0001,		DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	
	1	17-12-0444-0022-0000,		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
	1	17-12-0445-0001-0000,		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
		17-12-0445-0002-0000,	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
]	17-12-0445-0009-0000,	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
	1	17-12-0445-0010-0000,		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
	}	17-12-0445-0011-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		1
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601يــر	
						S	9	ı
	1			L. BASSELL MAXWELL AND BLONDA MAXWELL, HIS WIFE; AND, JANE		88		1
	17-12-0424-0052-0000 17-12-0424-0052-0001	17-12-0424-0052-0000		M. HENDERSON, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	745	ı
		17-12-0424-0052-0001	1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	1	903	i
	1	17-12-0424-0052-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT G	1136	1
		17-12-0424-0052-0003				MERGER/NAME CHANGE	, ₅₁	1
	1	17-12-0424-0052-0004		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION		3	1
	ł	p/o 17-12-0425-0031-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.		੍ਰੌ 58	1
C	FK065462	p/o 17-12-0425-0031-0003	Q101063000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	3 1522	ı
J	1,000,102	17-12-0425-0032-0000	4202003000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1
		p/o 17-12-0425-0033-0000				(I)	1576	ı
	1	17-12-0425-0033-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.		1 3 1	ı
		17-12-0425-0033-0002	İ	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	ĺ
		17-12-0425-0033-0003		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	≥ 1600	i
		p/o 17-12-0425-0033-0004		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	i
		17-12-0425-0033-0005	1		DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	i
				DOMINION TRANSMISSION, INC.	•		1601	i
•				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1001	
								i
	[17-12-424-0044-0000		EDMOND SOUTHERN AND MARTHA W. SOUTHERN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	149	<u> </u>
		17-12-424-0051-0000						i
	1	17-12-424-0051-0001	1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	
		17-12-424-0051-0001					i l	i
	1	17-12-424-0051-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	l l
	1 1	17-20-444-0006-0000		CONSCRIPTION OF THE CONTROL OF THE C				
	l	17-20-444-0006-0001		CONSOLIDATED CAS TRANSMISSION CORROBATION	CNG TRANSMISSION CORDORATION	MERGER/NAME CHANGE	51	1
	1	17-20-444-0006-0001	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MENGERY HAME CHANGE	 	
	1				I		ا ۔	1
		17-20-444-0006-0004		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	<u> </u>
	ļ l	17-20-444-0006-0005	1		1			1
	1	17-20-444-0007-0001	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	

1 .	FK004884	17-20-444-0000-0000	Q100457000			T		
В	FKUU4884	17-20-444-0009-0000 17-20-444-0009-0001	Q100457000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
		17-20-444-0010-0000 17-20-444-0056-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
		17-12-2002-0024-0000 17-12-2002-0024-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		17-12-2002-0024-0001 17-12-2002-0024-0002		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
		17-12-2002-0025-0000 17-12-2002-0026-0000 17-12-2002-0027-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
		17-12-2002-0027-0000 17-12-2002-0028-0000 17-12-2002-0024-0031		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		17-12-2002-0024-0031		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
		17-12-0424-0045-0000		PAUL S. HORNER AND MARY H. HORNER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	696	249
		17-12-0424-0045-0002 17-12-0424-0045-0003		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY COMPANY	MERGER/NAME CHANGE	903	179
		p/o 17-12-0424-0045-0007		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
တ္တ	2018 nent of Protection	17-12-0424-0045-0006 17-12-0424-0045-0009		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
U	t of	p/o 17-12-0424-0045-0008 17-12-0424-0043-0002	•	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
	2018 ment Prote	17-12-0424-0043-0004 17-12-0424-0043-0005		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT FIRST AMENDMENT TO MEMORANDUM OF	1522	33
	FK061785	17-12-2002-0010-0001 17-12-2002-0010-0003	7-12-0424-0043-0006 7-12-2002-0010-0001 7-12-2002-0010-0003 7-12-2002-0010-0004	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
шо	NV Depara	17-12-2002-0010-0004 17-12-2002-0010-0006		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
Office	20	17-12-2002-0019-0000 17-12-2002-0020-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
Ö	5 2	17-12-2002-0021-0000 17-12-2002-0022-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
	直	17-12-2002-0023-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
		17-12-2002-0029-0000 17-12-2002-0023-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDOM OF	wvsos	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	. 581
		17-12-0405-0075-0000 17-12-2001-0017-0001 17-12-2001-0017-0002 17-12-2001-0018-0001 17-12-2001-0018-0003		WM. BURNSIDE AND RUHARY BURNSIDE, HIS WIFE, AKA RHUHAMA BURNSIDE	E.J. WEST (212 ACRES)	NOT LESS THAN 1/8	118	353
	17-12-200 17-12-200 17-12-200 17-12-200 17-12-200			E.J. WEST	CONSOLIDATED OIL COMPANY	ASSIGNMENT	118	358
		17-12-2001-0021-0000 17-12-2001-0022-0001 17-12-2001-0023-0000 17-12-2001-0023-0001 17-12-2001-0024-0000 17-12-2001-0033-0000		CONSOLIDATED OIL COMPANY	E.C. BEARDSLEY	ASSIGNMENT	207	465

						·		
		17-12-2001-0034-0000						
		17-12-2001-0035-0000						
		17-12-2001-0036-0000				 		į
1		17-12-2001-0037-0000						
		17-12-2001-0038-0000		E.C. BEARDSLEY	THE WHEELING NATURAL GAS COMPANY	ASSIGNMENT	207	419
		17-12-2001-0039-0000						
		17-12-2001-0040-0000						
l l		17-12-2001-0041-0000						
		17-12-2001-0024-0001						
		17-12-2001-0047-0000		THE WHEELING NATURAL GAS COMPANY, TRI STATE GAS COMPANY				
j		17-12-2001-0001-0000		AND THE MANUFACTURERS LIGHT AND HEAT COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	202	375
1		17-12-2001-0002-0000						
l		17-12-2001-0003-0000						
]		17-12-2001-0025-0000			1	1		1
1		17-12-2001-0026-0000		JOSEPH CHEUVRONT, CHARLES CHEUVRONT, AND HARRIET	1			ł
		17-12-2001-0027-0000		CHEUVRONT	P.H. GAFFNEY (200 ACRES)	NOT LESS THAN 1/8	184	309
		17-12-2001-0061-0000			,			
]		17-12-2001-0062-0000				38 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
[17-12-2001-0063-0000				§ \$		
		17-12-2001-0064-0000						
		17-12-2001-0065-0000		E.F. WILLIAMSON AND P.H. GAFFNEY DOING BUSINESS AS F.E.		ASSIGNMENT 5 00 5		
		17-12-2001-0066-0000		WILLIAMSON & CO.,	J.F. DONALDSON		222	83
		17-12-2001-0067-0000		·				
		17-12-2001-0055-0000				2 4 7		1
		17-12-2001-0056-0000			1	1		1
Ì	i	17-12-2001-0028-0000				ASSIGNMENT (b) ASSIGNMENT		
1	J	17-12-2001-0028-0001		J.F. DONALDSON	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT (1)	222	79
i i		17-12-2001-0028-0002		, , , , , , , , , , , , , , , , , , ,				
		17-12-2001-0028-0003				Office		
		17-12-2001-0044-0000			1	5 5		
		17-12-2001-0004-0000				÷		
l i		17-12-2001-0005-0000						
		17-12-2001-0005-0001		THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	236	111
		17-12-2001-0006-0000						
		17-12-2001-0007-0000			1			
1		17-12-2001-0008-0000						
1		17-12-2001-0009-0000			1			
]	17-12-2001-0009-0001		PITTSBURGH AND WEST VIRGINIA GAS COMPANY	PHILADELPHIA OIL COMPANY	ASSIGNMENT	504	353
		17-12-2001-0010-0000					204	
		17-12-2001-0011-0000						l
1		17-12-2001-0012-0000		1	1			
		17-12-2001-0013-0000						l
		17-12-2001-0014-0000			1			
		17-12-2001-0016-0000		PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	CONVEYANCE	714	159
		17-12-2001-0029-0000						J
		17-12-2001-0030-0000			1			1
		17-12-2001-0030-0001			1			1
1		17-12-2001-0031-0000			1	1		
		17-12-2001-0032-0000		EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	790	135
		17-12-2001-0032-0001		22			.30	
		17-12-2001-0068-0000						ì
<u> </u>		17-12-2001-0069-0000	0404004005		1			
E	LC098343	17-12-2001-0070-0000	Q101084000					1
		17-12-2001-0070-0001				1		į
]		17-12-2001-0076-0000		HOPE NATURAL GASA COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION (212 & 200 AC)	MERGER/NAME CHANGE	903	179
•	-	··································						

RECEIVED Office of Oil and Gas	NOV I 4 2018	17-12-2001-0077-0000 17-12-2001-0078-0000 17-12-2001-0080-0000 17-12-2001-0081-0000 17-12-2001-0081-0000 17-12-2001-0082-0000 17-12-2001-0083-0000 17-12-2001-0085-0000 17-12-2001-0085-0000 17-12-2001-0086-0000 17-12-2001-0088-0000 17-12-2001-0088-0000 17-12-2001-0088-0000 17-12-2001-0088-0000 17-12-2001-0089-0000 17-12-0424-0018-0000 017-12-0424-0018-0000 017-12-0424-0018-0000 017-12-0424-0018-0005 17-12-0424-0019-0000 17-12-0424-0019-0000 17-12-0424-0019-0000 17-12-0424-0020-0000 17-12-0424-0030-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-00000 17-12-0424-0045-0000 17-12-0424-0045-0000 17-12-0424-0045-00000 17-12-0424-0045-0000
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CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATOIN	ASSIGNMENT	1136	250
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
		FIRST AMENDMENT TO MEMORANDUM OF		
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
NOBEL ENERGY, INC.	no eneror il ai raccina, ecc	rissionine		

		17-12-0424-0053-0003 17-12-0424-0053-0004 17-12-0424-0054-0000 17-12-0424-0055-0000 17-12-0424-0055-0001 17-12-0424-0055-0002 17-12-0424-0055-0003 17-12-0424-0056-0000 17-12-0424-0057-0000 17-12-0424-0058-0000		DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	wvsos	1601	581
				WILLIAM AND RUHAMA BURNSIDE	E. J . WEST	NOT LESS THAN 1/8		118	360
j				E. J. WEST	CONSOLIDATED OIL COMPANY	ASSIGNMENT		118	358
j				CONSOLIDATED OIL COMPANY	E.C. BEARDSLEY	ASSIGNMENT	 	207	465
				E.C. BEARDSLEY	THE WHEELING NATURAL GAS COMPANY	ASSIGNMENT	-	207	419
		s ici		THE WHEELING NATURAL GAS COMPANY, TRI STATE GAS COMPANY AND THE MANUFACTURERS LIGHT AND HEAT COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT		202	375
		Gas t of		HOPE NATURAL GASA COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION (212 & 200 AC)	MERGER/NAME CHANGE		903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATOIN	ASSIGNMENT		1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		51	795
F	LC021484	1 47-424-0003-0000	Q101085000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT		1522	33
						FIRST AMENDMENT TO MEMORANDUM OF			
		1 / 3 *** () ***		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT		1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		1543	1235
		NOV DOING		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		1576	125
	ļ	l 4 8 2 5 g		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		1584	942
ŀ				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		1600	660
1		Pri Office NC WV E		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		1600	692
		E. G.		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
		11		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		1601	581
				WILLIAM AND RUHAMA BURNSIDE	RESERVE GAS COMPANY	NOT LESS THAN 1/8		193	444
l				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	<u> </u>	37	350
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	-	903	179
1		1		FAYETTE COUNTY GAS COMPANY	HOPE NATURAL GAS	ASSIGNMENT		201	3
	1			W.B. BERRY	J&J ENTERPRISES	ASSIGNMENT		1065	271
		 		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		1136	250
	1			J&J ENTERPRISES, BENSON DRILLING ASSOCIATION NO. 1	ENSOURCE, INC.	ASSIGNMENT		1187	246
	l]		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		51	795
1		1		J&J ENTERPRISES	EASTERN AMERICAN ENERGY CORPORATION	MERGER/NAME CHANGE	1	1200	1110
	1			ENSOURCE, INC.	UMC PETROLEUM CORPORATION	MERGER/NAME CHANGE	wvsos	1055	
	Į.	Į į		EASTERN AMERICAN ENERGY CORPORATION	UMC PETROLEUM CORPORATION	ASSIGNMENT		1226	1040
				CNG TRANSMISSION CORPORATION	UMC PETROLEUM CORPORATION	CONSENT TO ASSIGNMENT		1226	1009
l		17-20-0404-0049-0000		BENSON DRILLING ASSOCIATES JV1	UMC PETROLEUM CORPORATION	ASSIGNMENT		1262	399
1	EKOE3034	17-20-0404-0057-0000		UMC PETROLEUM CORPORATION	ASHLAND EXPLORATION, INC.	ASSIGNMENT		1263 1294	494 299
G	G FK052931 17-20-0404-0058-0000 17-20-0424-0002-0000			ASHLAND EXPLORATION HOLDINGS, INC. BLAZER ENERGY CORP., EASTERN STATES OIL AND GAS, INC. EASTERN STATES EXPLORATION COMPANY, EASTERN SEVEN, LLC	BLAZER ENERGY CORPORATION EASTERN SERIES 1997 TRUST	ASSIGNMENT		1294	909
				BLAZER ENERGY CORP., EASTERN STATES OIL AND GAS, INC. EASTERN STATES EXPLORATION COMPANY, EASTERN SEVEN, LLC	EASTERN SERIES 1997 TRUST	ASSIGNMENT		1309	463

	1			<u> </u>				
1		i		EASTERN SEVEN, LLC, EQUITABLE PRODUCTION - EASTERN STATES,				
1	1			INC., EQUITABLE PRODUCTION - EASTERN EXPLORATION, INC. FKA				
1				EASTERN STATES EXPLORATION COMPANY, EASTERN SEVEN		CORRECTIVE ASSIGNMENT AND STIPULATION OF		
1				PARTNERS, LP	EASTERN SERIES 1997 TRUST	INTEREST	1324	156
				EASTERN SEVEN, INC.	EASTERN STATES OIL & GAS, INC.	ASSIGNMENT	1316	562
				EASTERN STATES OIL AND AS, INC.	BLAZER ENERGY CORPORATION	MERGER/NAME CHANGE	58	98
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION CORPORATION	MERGER/NAME CHANGE	59	1227
				DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	Third Amendment to Farmout Agreement	1621	1295
							ط	
1		17-20-0404-0032-0000		·		√. 3	o	
		17-20-0404-0032-0001		J.P. POST AND F.C. POST, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	5 i	214
	l	17-20-0404-0032-0002				,	9 81	
	l	17-20-0404-0032-0003					് പ്	
		17-20-0404-0032-0004				.		
	į	17-20-0404-0032-0005		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	508	573
		17-20-0404-0032-0006				:	1.5 mg	
		17-20-0404-0032-0007				[]	3.91	
		17-20-0404-0032-0009		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	179
		17-20-0404-0032-0010		THE PART OF THE PA			31	
		17-20-0404-0033-0000				الفا	5 8	
		17-20-0404-0033-0001				7	- 60	
	1	17-20-0404-0033-0001		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
]		17-20-0404-0033-0002						
1		•					2	
		17-20-0404-0033-0004		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	∮ . 51	795
		17-20-0404-0033-0005						
		17-20-0404-0033-0006				i '		
		17-20-0404-0042-0000				l		
1		17-20-0404-0043-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
	1	17-20-0404-0043-0001						
		17-20-0404-0043-0002						
	ľ	17-20-0404-0043-0003		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	MERGER/NAME CHANGE	1325	874
		17-20-0404-0043-0004		DOMINION THE WORKSON, INC.				
		17-20-0404-0043-0005				1		
		17-20-0404-0043-0006				1		
н	FK052902	17-20-0404-0043-0007	Q100475000	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1427	829
.,	11032302	17-20-0404-0043-0008	Q100475000					
		17-20-0404-0001-0000						
	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
		17-20-0404-0002-0000						
		17-20-0404-0003-0000						
		17-20-0404-0004-0000						
	l .	17-20-0404-0005-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
		17-20-0404-0006-0000				j i		
		17-20-0404-0007-0000					ŀ	
]	17-20-0404-0008-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
		17-20-0404-0009-0000		DOMINION TO HORSON, INC.	on one committee the most circuit, men	Indicate the same		
		17-20-0404-0010-0000			1	1		
]	17-20-0404-0011-0001						
· .		17-20-0404-0012-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		17-20-0404-0013-0000						
		17-20-0404-0013-0000						
		17-20-0404-0014-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
[TODEL ENERGY INC.	The arrange of the tribution of the			
1		17-20-0404-0016-0000						
	1	17-20-0404-0016-0001						
1	l	17-20-0404-0016-0002		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692

17-20 17-20	0-0404-0016-0003 0-0404-0016-0004 0-0404-0016-0005	DOMINION TRANSMISSION	, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
17-2	2901-0218-0000	DOMINION ENERGY TRANS			SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581

RECEIVED Office of Oil and Gas

NOV 1 & 2018

WV Department of

Environmental Protestion



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

November 1, 2018

Laura Adkins WV DEP Division of Oil & Gas 601 57th Street Charleston, WV 25304

RE:

Drilling Under Roads - Nays 1209 N-6H

Union District, Harrison County

West Virginia

Dear Ms. Adkins:

HG Energy II Appalachia, LLC, has the right to drill, stimulate and produce wells that are drilled under the County and State Roads as designated on the plats.

Should you have any questions or desire further information, please contact me at dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

NOV 1 4 2018

WV Department of Environmental Fretestion

APINO 47-033 - 05939

Date of Notice Certification: 10/25/2018

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

		C	perator's	Well No. Nays	1209 N-6H
				Name: Nays 12	
Notice has b	neen given:	·	· • • • • • • • • • • • • • • • • • • •	Tunite.	
Pursuant to the	e provisions in West Virginia Code § tract of land as follows:	§ 22-6A, the Operator has provide	ded the rec	quired parties v	vith the Notice Forms listed
State:	West Virginia	Т	easting:	548091.0	
County:	Harrison		asung: Jorthing:	4333350.3	·
District:	Union	Public Road Acces	_	Kincheloe Run R	and / SD25
Quadrangle:	West Milford 7.5'	Generally used farr			uau / SRSS
Watershed:	West Fork	Generally used fair	ii iiailie.	Nays	
watersneu.	West Folk				
prescribed by it has provide information re of giving the requirements Virginia Code	Vest Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface describequired by subsections (b) and (c), set surface owner notice of entry to surface owner notice of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following information in subdivisions (1), (2) and ection sixteen of this article; (ii) arvey pursuant to subsection (a) of this article were waived in wender proof of and certify to the	nation: (14), substitute the respection of the respective of the r	4) A certificating section (b), section (b), section (b), section was ten of this arting the surface over th	on from the operator that (intercept on the cities and the cities at the
that the Oper	West Virginia Code § 22-6A, the Oprator has properly served the require CK ALL THAT APPLY		s Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NOT	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY	WAS CO	ONDUCTED	RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PI WAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY (PLEASE ATTACH)			
■ 4. NO7	TICE OF PLANNED OPERATION	Office o	CEIVE f Oil an		RECEIVED
■ 5. PUB	BLIC NOTICE	NOV	14 20	;3	RECEIVED
■ 6. NO	TICE OF APPLICATION	WV Do	no etcas	ant of	☐ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification of Notice is hereby given:

above, to the re signature confirm in this Notice (obtaining the in-	at as required under West Virginia Cod equired parties through personal service mation. I certify under penalty of law the Certification and all attachments, and	de § 22-6A e, by regis hat I have p that based n is true, ad	., I have se tered mail personally d on my in courate and	the notice requirements within West Virginia Code § 22- erved the attached copies of the Notice Forms, identified or by any method of delivery that requires a receipt or examined and am familiar with the information submitted nquiry of those individuals immediately responsible for d complete. I am aware that there are significant penalties nment.			
Well Operator:	HG Energy II Appalachia, LLC	A	and the contract of the	5260 Dupont Road Parkersburg, WV 26101			
By:	Diane White Diane White						
Its:	Agent	Facsimile	acsimile:	e: 304-863-3172			
Telephone:	304-420-1119	E	Email:	dwhite@hgenergyllc.com			
	NOTARY SEAL	Subscribe	ed and swo	orn before me this 25th day of October, 2018. Notary Public			
		My Com	mission Ex	pires			

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 deprivacyofficer@wv.gov.

RECEIVED
Office of Oll and Gas
NOV 1 4 2018
WV Department of Environmental Protection

WW-6A (9-13)

API NO. 47	
OPERATOR WELL NO.	Nays 1209 N-6H
Well Pad Name: Nays 1209)

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

Notic	e Time Requirement: notice shall be provided no later th	an the filing date of permit application.
Date	of Notice: 11/05/2018 Date Permit Application Filed: 110	9/18
Notic	e of:	
	PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT
Deliv	ery method pursuant to West Virginia Code § 22-6A-10	$O(\mathbf{b})$
	PERSONAL	IOD OF DELIVERY THAT REQUIRES A
		IPT OR SIGNATURE CONFIRMATION
the su oil and descri operate more well wimpout have a provide propos subsect record provis Code	rface of the tract on which the well is or is proposed to be local gas leasehold being developed by the proposed well work, is bed in the erosion and sediment control plan submitted pursus for or lessee, in the event the tract of land on which the well process seams; (4) The owners of record of the surface tract or traction in the surface tract is to be used for the placement, construction or pit as described in section nine of this article; (5) as water well, spring or water supply source located within one le water for consumption by humans or domestic animals; and sed well work activity is to take place. (c)(1) If more than threation (b) of this section hold interests in the lands, the applicates of the sheriff required to be maintained pursuant to section ion of this article to the contrary, notice to a lien holder is not	the well plat to each of the following persons: (1) The owners of record of rated; (2) The owners of record of the surface tract or tracts overlying the f the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to defend the operator of any natural gas storage field within which the elements in common or other co-owners of interests described in the neight, article one, chapter eleven-a of this code. (2) Notwithstanding any that notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any that sprovided in section 15 of this rule.
☑ Aŗ	pplication Notice ☑ WSSP Notice ☑ E&S Plan Notice	· ·
☑ SU	RFACE OWNER(s)	□ COAL OWNER OR LESSEE Name: NA CARROS OF CARROS GAS Address: □ CARROS OF CARROS GAS
Name	 	Name: NA CARRO OF CHILDREN
Addre	ess: 5260 Dupont Road	Address: or Oil and Gas
Name	Parkersburg, WV 26101	COAL OPERATOR NOV 1 4 2018
Addre		Name: NA
ı taarı		Address: VM Department of
——— □ SU	RFACE OWNER(s) (Road and/or Other Disturbance)	The second of th
Name		SURFACE OWNER OF WATER WELL
Addre	ess: 5260 Dupont Road	AND/OR WATER PURVEYOR(s)
	Parkersburg, WV 26101	Name: HG Energy II Appalachia, LLC
Name	·	Address: 5260 Dupont Road
Addre	ess:	Parkersburg, WV 26101
		OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	RFACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Ronald Walden
	HG Energy II Appalachia, LLC	Address: 925 White Oaks Blvd Bridgeport , WV 26330
Adar	Parkersburg, WV 26101	*Please attach additional forms if necessary
		i itali attati attitititi itiliti it itoossat j

API NO. 47-___OPERATOR WELL NO. Nays 1209 N-6H
Well Pad Name: Nays 1209

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va, Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5,7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-

OPERATOR WELL NO. Nays 1209 N-6H

Well Pad Name: Nays 1209

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

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WV Department of

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.

API NO. 47OPERATOR WELL NO. Nays 1209 N-6H
Well Pad Name: Nays 1209

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.



API NO. 47-OPERATOR WELL NO. Nays 1209 N-6H Well Pad Name: Nays 1209

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

304-420-1119 Telephone:

dwhite@hgenergyllc.com Email:

Address: 5260 Dupont Road

Parkersburg, WV

Facsimile: 304-863-3172

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.

aiane White



Subscribed and sworn before me this 2nd day of November, 2018

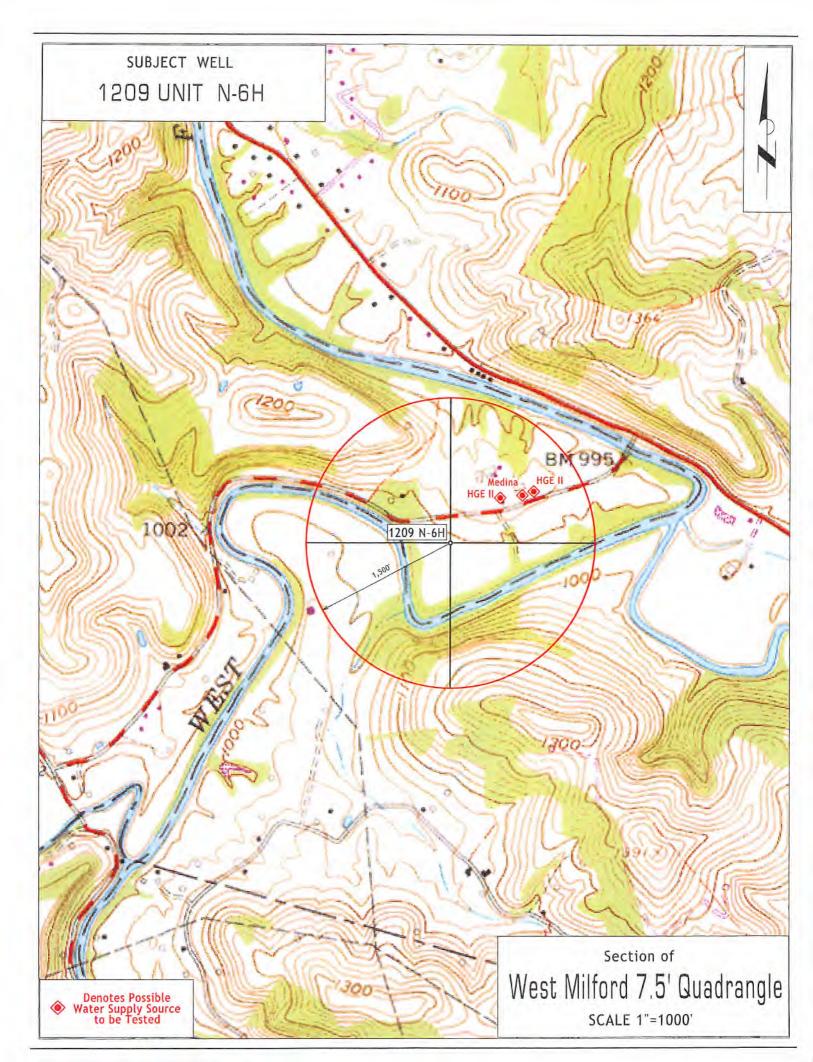
Notary Public

Carsing A. Boardy

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NOV 1 4 2018

WV Department of Environmental Protection



Cone 1209 N-6H

Page 1 Continued

Surface Owner of Water Well and/or Water Purveyors to be Noticed:

Aaron & Christina Medina 314 Gooseman Road
Jane Lew, WV 26378

Timothy Butcher 244 Gooseman Road Jane Lew, WV 26378

Danny & Alicia Stickel J 1404 Kincheloe Road Jane Lew, WV 26378

NOTES

**

Mr. Butcher sold his property to HG Energy II
Appalachia, LLC, July 2018.

The well located on Mr. Stickel's property can't be accessed, it's sealed. The aren't any other water sources to be tested.

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VVV Department of Environmental Profession

Diane White

From: Missy Hoops <mhoops@sturmenvironmental.com>

Sent: Tuesday, July 10, 2018 1:05 PM

To: Diane White

Subject: Re: Water Sampling at the 1209 Well Site in Harrison County

You're welcome!

On 7/10/2018 12:55 PM, Diane White wrote:

Thank you very much!

121/2

From: Missy Hoops [mailto:mhoops@sturmenvironmental.com]

Sent: Tuesday, July 10, 2018 12:43 PM

To: Diane White <dwhite@hgenergyllc.com>

Subject: Re: Water Sampling at the 1209 Well Site in Harrison County

17,1/2

He said there is a well, but it is sealed.

17.1/2

On 7/10/2018 12:15 PM, Diane White wrote:

Could you ask him if he remembers if there was a water source by the house?� Or on property?� The house isn�t occupied; it�s old/deserted from what I understand.�

 $I\ddot{\imath}_{\dot{\zeta}}$ ½m trying to determine if there is a well on the property. $\ddot{\imath}_{\dot{\zeta}}$ ½

At the time Cone owned the property, then HG purchased it and now it i i l l l l owned by Danny Stickel. i l l l l

Thanks,

Diane

Thank you, it's Missy Hoops
Sturm Environmental Services P.O. Box 650
Bridgeport, WV 26330 (304) 623-6549 Phone (304) 623-6552 Fax

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Office of Gil and Gas

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Environmental Prolection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

	e: 10/29/2018 Date Po		
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL	*	
DELIVE	[18] [18] [18] [18] [18] [18] [18] [18]	FOUESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab Notice is he Name: HGE	sted or hand delivery, give the surface of zontal well: <i>Provided</i> , That notice give tion as of the date the notice was provided by be waived in writing by the surface of le, facsimile number and electronic mail reby provided to the SURFACE Of Energy II Appalachia, LLC	wher notice of its intent to enter upon the pursuant to subsection (a), section tended to the surface owner: Provided, however. The notice, if required, shall included address of the operator and the operator where the pursuance with the control of the control of the control of the operator and the operator where the control of the co	an operator shall, by certified mail return ne surface owner's land for the purpose of an of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number or's authorized representative.
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

* Notice was not sent because HG Energy II Appalachia, LLC is the owner of the Surface Property and the Operator submitting the well work application.

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

Notice Time Date of Notic	Requirement: notice shall be pro- re: 10/31/2018 Date Pe		o later than pplication l			application.
Delivery met	hod pursuant to West Virginia (Code §	22-6A-16(c)		
CERTII	FIED MAIL	П	HAND	*		
	N RECEIPT REQUESTED		DELIVER	ev.		
		tor than	the date f	or filing th	ne nermit annli	cation, an operator shall, by certified mail
return receipt the planned of required to be drilling of a l damages to th (d) The notice of notice.	requested or hand delivery, give to operation. The notice required by provided by subsection (b), section norizontal well; and (3) A propose e surface affected by oil and gas of es required by this section shall be	he surfa this son ten of ed surfa peration given to	ace owner woubsection slubsection slubsection slubsection slubsection slubsection slubsections to the exist of the surfaction slubsection	whose land hall include to a surfat compens tent the da	will be used for le: (1) A copy ace owner whos ation agreemen mages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information is land will be used in conjunction with the transfer containing an offer of compensation for pensable under article six-b of this chapter. Settled in the records of the sheriff at the time
	eby provided to the SURFACE (
	s listed in the records of the sherif energy II Appalachia, LLC	at the	time of noti	Name:		NIVI : CON
Address: 5260		-		Address		
	ersburg, WV 26101					WAY COMPANY
operation on State: County:	the surface owner's land for the p West Virginia Harrison	urpose	of drilling a	horizonta M NAD 8	I well on the tra	well operator has developed a planned ct of land as follows: 548091.0 4333350.3
District:	Union			lic Road		Kincheloe Run Road/ SR35
Quadrangle:	Audra 7.5'		Ger	nerally use	ed farm name:	Cone
Watershed:	Elk Creek		_			
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(total); and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	o) to a e and con the extended be obtained and a contract of the contract of t	surface own ompensation on the dama ained from	ner whose agreeme ges are co the Secret	e land will be un nt containing ar compensable und cary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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.

* Notice was not sent because HG Energy II Appalachia, LLC is the owner of the burface property and the Operator submitting the Well work application.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

November 1, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

> Jill M. Newman Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Nays 1209 Well Pad, Harrison County N-6H Well Site RECEIVED Office of Officer of Gas

NOV 1-4 20.8

NV Hamiltoniof Empression in Relection

Dear Mr. Martin,

This well site will be accessed from Permit #04-2018-0673 issued to HG Energy II Appalachia for access to the State Road for a well site located off of Harrison County 35 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane C. White

HG Energy II, LLC CH, OM, D-4

File

List of Frac Additives by Chemical Name and CAS

Nays 1209 Well Pad (N-1H to N-6H, S-7H to S-12H)

Chemical Name	CAS#	Multiple CAS #'s	
Pro Shale Slik 405	Mixture	68551-12-2	-
Pro Shale Shk 403	Winterc	7647-14-5	1
		12125-02-9	1
		64742-47-8	
Pro Hib II	Mixture	68412-54-4	
		68607-28-3	
		107-21-1	
		111-76-2	1
		67-56-1	
		107-19-7	
Silica Sand and Ground Sand	Mixture	14808-60-7	
		1344-28-1	
		1309-37-1	1
		13463-67-7	TOP WITH
		Office	ECEIVED of Oil and Gas
Hydrochloric Acid 22 DEG BE	7647-01-0		
PROGEL - 4.5	64742-96-7	N	V 1 4 2018
		WVr	epartment of
BIO CLEAR 2000	Mixture	25322-68-3 Environn	Tenisi Dalasta
		10222-01-2	orner riotection
SCALE CLEAR SI 112	107-21-1		
PROBREAK 4	Mixture	57-50-1	
		107-21-1	1
Sulfamic Acid	5329-14-6		
PRO - Flow - 102-N	Mixture	67-63-0	1
		68439-45-2	
		2687-96-9	-
PROGEL - 4	9000-30-0		



CONSTRUCTION SEQUENCE

1. Pror to commencement of any earth daturbance activity including oleaning and grubbing the registrant shall call. West Virginia B11 by dialing B11 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked staged, operated or located for any purpose.

Site access - This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockples.

 Sediment Barriers - Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.

 Land Clearing and Grading - Implement clearing and grading only after all downstope E&S BMPs have been constructed and stabilized.

 Surface Stabilization - Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been dalayed or otherwise temporarily suspended.

 Construction of Buildings, Utilities, and Paving - During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.

 Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
 Final Stabilization. Topspiling, Trees and Shrubs - After

I, Final Stabilization, Topsoiling, Trees and Shrubs - After construction is completed; install stabilization BMPs indusing is complete, implementation of stormwater BMPs in this last construction phase, Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.

UNION DISTRICT HARRISON COUNTY WEST VIRGINIA



HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

5260 DUPONT ROAD PARKERSBURG, WEST VIRGINIA 26101 (304) 420-1100

PENN ENVIRONMENTAL & REMEDIATION, INC.

111 RYAN COURT PITTSBURGH, PA 15205 (412) 722-1222

Final Developmen			100	LH-II
	Cut	Fil		diplo
Pact	18.751	51309		388
Propuetrant	47,354	14 737		217
Host	148	364		818
Totals	64,653	68,020	-2	437
Soli Adjustment Jo Pati	Ардиони Ітарт		2	338
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Gas

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1 ITTLE SHEET 2A-2C SITE LAYOUT PLANS 3 PAD & IMPOUNDMENT SECTIONS 4 ACCESS ROAD SECTIONS 5A-5F GENERAL NOTES & DETAILS 6 RESTGRATION PLAN	SHT, NO.	SHEET TITLE
3 PAD & IMPOUNDMENT SECTIONS 4 ACCESS ROAD SECTIONS 5A-SF GENERAL NOTES & DETAILS	1	TITLE SHEET
4 AGCESS ROAD SECTIONS 5A-5F GENERAL NOTES & DETAILS	2A-2C	SITE LAYOUT PLANS
5A-5F GENERAL NOTES & DETAILS	3	PAD & IMPOUNDMENT SECTIONS
	4	AGCESS ROAD SECTIONS
6 RESTORATION PLAN	5A-5F	GENERAL NOTES & DETAILS
	6	RESTORATION PLAN
7 PROPERTY MAP	7	PROPERTY MAP

REDORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD	
HG ENERGY I APPALACHIA, LLC	20-444-11.2	95.06 AC.	17.428 AC.	
TOTAL LIMIT OF DISTU	IRBANCE		17.428 AC.	

	LATTIUDE	LONGITUDE
1209 PAD & IMPOUNDMENT ENTRANCE	N 39.1488526	W 80,4408547

SDW 10/22/2018

WELL #	LAT.	LONG.
N-18	N 30,147868	W 80,443456
N-2H	N 38.147939	W 80,443458
N-3H	N 39,147980	W 80.443481
H-4H	N 39.148103	W 80.443470
N-5H	N 38,148062	W 60,443467
N-6H	N 39,148021	W 80.443464
N-7H	N 39,148029	W 80.442299
N-BH	N 39,147988	W 80.442296
N-9H	N 39,147946	W 80.442294
N-10H	N 39,148070	W 80,442302
N-11H	N 39.148111	W 80.442305
H 13H	H 30 149153	W 80.442305

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O PHILIP	THE PETUPES	IN HOUSEST OF THE CONSTITUTE A CAUSE FOR LEGAL ACTION. THIS CH REQUEST OF THE COMPANY.
MOISIN	DATE	DESCRIPTION
4	5/31/18	ACCESS PROPERTY MAY, METAPOLITICAL PRINT DEP COMMENTS.
2	6/08/18	THE EMPHASE PERSON, MICEO EMPHAS AND EMPHASIS



TITLE SHEET

HG 1209 PAD & IMPOUNDMENT

UNION DISTRICT

HARRISON COUNTY, WEST VIRGINIA

PREPARED FOR HG ENERGY II APPALACHIA, LLC

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA



YOU DIG!

Dial 811 or 800.245.4848

DECT No. 4000-PA007715 DRAWING MUNBER PA007715-001 SHEET 1



S.\PROLECT FLES\4000-PA00715 HG 1209\DRAWHGS\1209 PAD & WPOUNDAENT

1. DEMVICEUTELY LINSOARENOT GROWN ONTHEFTAND, THE CONTRACTOR SHALL BE

