

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

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

Wednesday, September 25, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for NUTTER 1208 S-8H

47-033-05962-00-00

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: NUTTER 1208 S-8H

Farm Name: LINDA & WILLIAM W. BROM

Horizontal 6A New Drill

U.S. WELL NUMBER: 47-033-05962-00-00

Date Issued: 9/25/2019

Promoting a healthy environment.

API Number: 33-05962

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

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: 33-05962

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, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47	
OPERATOR WELL NO.	Nutter 1208 S-8H
Well Pad Name: Nutter	1208

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

l) Well Opera	tor: HG En	ergy II Appa	alachia, 📙	494519932	Harrison	Union	West Milford 7.5'
				Operator ID	County	District	Quadrangle
) Operator's	Well Numbe	r: Nutter 120	08 S-8H	Well P	ad Name: Nut	ter 1208	
) Farm Name	:/Surface Ow	ner: Nutter		Public Ro	oad Access: S	R 19	
) Elevation, c	urrent groun	d: 1162'	El-	evation, propose	d post-construc	tion: 1147'	
) Well Type	(a) Gas	x	_ Oil	Un	derground Stor	age	
	Other						
	(b)If Gas	Shallow	<u>x</u>	Deep			$c \delta$
Postadio e De	d. W.a N.	Horizontal	<u>×</u>				50 71
_	d: Yes or No		(a) Ameliai	instead Thislesses	— and Damantad	D	716
-	-		• • •	ipated Thickness ticipated pressure	•	rressure(S):	
		Depth: 705					
	at Total Verti		Marcellus				
	Total Measur		19,967'	· · · · · · · · · · · · · · · · · · ·	-		
	Horizontal Le		12,480'				
•		iter Strata De	nths:	135', 500'			
		resh Water D	_	learest offset w	ell data	,	
•		Depths: 12			Sit Gata		
<i>,</i>		m Depths: 8					
,		-			None		
) Approxim	ate Depth to	rossible voic	ı (coai mi	ne, karst, other):	None		
		cation contain ent to an activ		ns Yes	N	o X	
(a) If Yes, pr	ovide Mine I	info: Name:	:				
		Depth	:				
		Seam:					
		Douisi.	-				

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WV Department of Environmental Protection WW-6B (04/15)

API NO. 47-____ OPERATOR WELL NO. Nutter 1208 S-8H Well Pad Name: Nutter 1208

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water	20"	NEW	J-55	94	£50 /000	650 100	or CTS
Coal/Storage	13 3/8"	NEW	J-55	68	1900'	1900'	CTS
Intermediate	9 5/8"	NEW	J-55	40	2700'	2700'	CTS
Production	5 1/2"	NEW	P-110	23	19967'	19967'	CTS
Tubing							
Liners							

SDW

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1,20, CTS
Coal/Storage	13 3/8"	17 1/2"	.480	3450	- Action of the Control of the Contr	Type 1/Class A	Lead 40% excess. Tall 0% excess
Intermediate	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Least 45% automo, Tall D% Shooms to
Production	5 1/2"	8 1/2"	.415	16240	12000	Type 1/ClassA	20% excess yield = 1.13, tall yield 1.01
Tubing			-	100			8.
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:	-	

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WV Department of Environmental Protection WW-6B (10/14)

API NO. 47		
OPERATOR WELL	NO.	Nutter 1208 S-8H
Well Pad Name:	Nutter	1208

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 7050 feet. Drill horizontal leg to estimated 17,106 lateral length, 24,589 TMD. Hydraulically fracture 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. We plan to run an ECP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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): 22.420 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 15.399 acres
- 23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater - contraized every 3 pinsts a surface.
Coal - Sow Spring on every plort, will also be numing ECP for isolating storage zone
Intermediate - Bow Spring on first 2 pinsts then every third plort to 100' from surface.
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 -N/A, Casing to be drilled in wi Dual Rotary Rig.
Fresh Walter - 15.5 ppg PNE-1 + 23% bwoc CaC0, 40% Excess Yield = 1.20, CTS
Coal - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaC1 Exero Section - 1.20, CTS
Coal - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaC1 Exero Section - 1.20, CTS
Intermediate - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaC1, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaC1, 2ero Section - 1.20, Excess, CTS
Production - Lead: 14.5 ppg POZ-PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.94, CTS

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD. Fresh Water - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.

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

Intermediate - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.

Production - Once on bottom/TD with casing, circulate at mix at viewbell pump rate for at least 2x bottoms up, or util returns and pump pressures indicate the hole is clean, Circulate a minimum of one hole volume prior to pumping cement.

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WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

	112.29E	41.09E	46.53E	COMMENTS	-	Conductor casing = 0.5 wall thickness	Surface casing = 0.438" wall	_	Burst=2110 psi		Interme	wall trickness Burst=3450 psi			Intermediate casing = 0.395"	_	Burst=3950 psi							Produ	Wall thickness Burst=16240 psi	Note:Actual centralizer	due to hole conditions						×	TD @ +/-7050' TVD +/-19967' MD	
S-8H le Horizontal ounty, WV	14218904.59N 1803912.29E	14218496.38N 1804141.09E	14202447.87N 1810046.53E	CONDITIONING	to apply of plants of parts of	Ensure me note is clean at TD.	Once casing is at setting	of one hole volume with	resh water prior to pumping cement.	Once casing is at setting	depth, Circulate and condition at TD. Circulate a	minimum of one hole	volume prior to pumping cement.	Once casing is at setting	depth, Circulate and	Circulate a minimum of one	hole volume prior to	pumping cement.					Once on bottom/TD with casing, circulate at max	allowable pump rate for at	least 2x bottoms up, or until	pressures indicate the hole	minimum of one hole	volume prior to pumping	cement.				×	+/-12480' ft Lateral	
1208 S-8H Marcellus Shale Horizontal Harrison County, WV	14	14	14	CENTRALIZERS		N/A		Centralized every 3 joints to surface		Bow Spring on every		ACP for isolating	storage zone*		Bow Spring on first 2		surface		Print 1 spiral propriet	every 5 joints from the	top of the curve to					_	every 3 joints from the	1st 5.5" long joint to the	top of the curve.				×	+/-1248	5
				CEMENT	AND Cocioso O AND	in w/ Dual Rotary Rig	15.6 ppg PNE-1 + 3%	bwoc CaCl 40% Excess	Yield=1.20 / CTS	Lead: 15.4 ppg PNE-1 +	2.5% bwoc CaCl 40% Excess / Tail: 15.9	ppg PNE-1 + 2.5% bwoc	zero% Excess. CTS	Lead: 15.4 ppg PNE-1 +	2.5% bwoc CaCl	ppg PNE-1 + 2.5% bwoc	CaCI	Zeio76 Excess. CIS		100000000000000000000000000000000000000	Lead: 14.5 ppg POZ:PNE-1 + 0.3%	bwoc R3 + 1% bwoc	EC1 + 0.75 gal/sk FP13L + 0.3% bwoc	MPA170	0.35% bwoc R3 + 0.75	gal/sk FP13L + 50%	bwoc MPA170	20% Excess	Lead Yield=1.19 Tail Yield=1.94	CTS			×		3
	1208 S-8H SHL	1208 S-8H LP	1208 S-8H BHL	MUD		AIR		AIR			AIR / KCL-	Polymer			AIR / KCL -	Salt	Polymer		17.0	AIR/	SOBM				11.5ppg-	12.5ppg				11 Eppe	12.5ppg	000	×		>
	1208 S	1208	1208 S	BASE		120	135, 500	815	915		1301 / 1393	1499 / 1740	1900	1847 / 1892	2000 / 2090	2220	2310	2700	2913	3155	4233	6015	6290	6491	6571	6664	0699	6794	7013	7064	7050			Long String	Table Table
REC Office of (EIVE Oil a	D nd (Sas	TOP		0	0	810	0		1276 / 1317	1393 / 1680	0	1800 / 1880	1935 / 2000	2185	2275	0	2895	3115	4200	4770	6015	6290	6491	6571	6664	0699	6794	7013	19967	7064	×	8.5" Hole - Cemented Long String 5-1/2" 23# P-110 HP CDC HTQ	The state of the s
AUG 2 WV Der Environme	0	201 nent Prof	of tecti	GEOLOGY		Conductor	Fresh Water	Kittaning Coal	Coal/Fresh Water Protection		Little/Big Lime	Injun / Gantz (Storage)	Intermediate 1	Fifty / Thirty Foot	Gordon Stray / Gordon	5th Sand	Bayard Sand	Intermediate 2	Speechley	Balltown	Benson	West Falls	Rhinestreet	Cashaqua	Middlesex	West River	Burkett	Tully Limestone	Hamilton	Marcellus	TMD / TVD (Production)	Onondaga	×	ω .	
	ı	1147	159.798°	CASING	40.70	30 157.5# LS		20" 94# J-55			13-3/8" 68#	J-55 BTC			100 1013	9-5/8" 40# J-55 BTC									23#	P-110 HP	2000						×		>
				HOLE		30"		26"				.c./L				12.25"				Coited/ "3 o	o.o veriicai					8.5" Curve					8.5" Lateral	n i	*	TVD / 7487' D	_
		Ground Elevation	u.	WELLBORE DIAGRAM		×	 	×	×			×		×			×		×	\$	376				×			V	*\frac{1}{2}		- 2.Ne.	×		LP @ 7050' TVD / 7487 MD	
ENERGY		Ground E	Azm	WELLBOR		×		×	×			×		×	<u>- 5</u> (c)		×		×		E				×	*	3					×			

Nutter 1208 Well Pad (N-1H to N-5H, S-6H to S-10H) <u>Cement Additives</u>

	Material Type	Material Description Premium NE-1 is a	CAS#	07.	CAS number
			Ingredient name	%	
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8 1309-48-4
Service Service	200000000000000000000000000000000000000	strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
remium NE-1	Portland Cement				
		Commonly called gel, it is			
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
ntonite	Extender				
		A powdered, flaked or	Note with the second	la.	CAS number
		pelletized material used	Ingredient name	%	
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
		of strength development			
ium Chloride	Accelerator				
		Graded 12/0 sa 2/4 (ask)	A Second Control of the Control of t	a)	0.00
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
o Flake	Lost Circulation	a lost circulation material.			
O Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air	and the state of t		77777
		entrapment and			
		preventing foaming			
		tendencies of latex			
		systems.			
-13L	Foam Preventer				
				las	1000
		Used to retard cement	Ingredient name	%	CAS number
autoral Cuesa	Detector	returns at surface.	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder				
		A proprietary product that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Ingredient name Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures.	Calcium magnesium oxide	90 - 100	3/24/-91-9
1		temperatures.			
		Multi-purpose polymer			
		additive used to control		4	23.00
		free fluid, fluid loss,	Ingredient name	%	CAS number
			No hazardous ingredient		
		rheology and gas			
A-170	Gas Migration	rheology, and gas migration.			
-170	Gas Migration	rheology, and gas migration.		-	
-170	Gas Migration	migration.			
A-170	Gas Migration	migration. A synthetic pozzolan,			
-170	Gas Migration	migration.			
-170	Gas Migration	migration. A synthetic pozzolan, (primarily Silicon Dioxide).			
-170	Gas Migration	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with	Ingredient name	%	CAS number
x-170	Gas Migration	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be	Crystalline silica: Quartz (SiO2)	5 - 10	CAS number 14808 50-7 NECEIV
-170	Gas Migration	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	A STATE OF THE STA		CAS number 14808 89-7 TECEIV 1305-78-6 e of Oil
i-170	Gas Migration	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement	Crystalline silica: Quartz (SiO2)	5 - 10	
·-170	Gas Migration	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	Crystalline silica: Quartz (SiO2)	5 - 10	CAS number 14808 60-7 RECEIV 1305-78-60 of Oil JUL 12
-170	Gas Migration	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate	Crystalline silica: Quartz (SiO2)	5 - 10	JUL 12
	Gas Migration Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Crystalline silica: Quartz (SiO2)	5 - 10	JUL 12
		migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Crystalline silica: Quartz (SiO2)	5 - 10	JUL 12
		migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion	Crystalline silica: Quartz (SiO2)	5 - 10	
		migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide	Crystalline silica: Quartz (SiO2)	5 - 10	JUL 12
		migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	5 - 10 1 - 5	JUL 12 WV Departrent Environmental
		migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide	Crystalline silica: Quartz (SIO2) Calcium oxide	5 - 10 1 - 5	JUL 12 WV Departr Environmental
		migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	5 - 10 1 - 5	JUL 12 WV Departr Environmental
		migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	5 - 10 1 - 5	JUL 12 WV Departrent Environmental
(Fly Ash)	Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	5 - 10 1 - 5	JUL 12 WV Departrent Environmental
(Fly Ash)	Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name	5 - 10 1 - 5	JUL 12 WV Departrent Environmental
(Fly Ash)	Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Crystalline silica: Quartz (SIO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanol	5 - 10 1 - 5	JUL 12 WV Departr Environmental
(Fly Ash)	Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant	% 40 - 50 % 20 - 30 10 - 20	JUL 1 2 WV Departr Environmental CAS number Trade secret. CAS number 111-76-2 Trade secret.
(Fly Ash)	Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	% 40 - 50 % 20 - 30 10 - 20 5 - 10	JUL 1 2 WV Departmental in the province of th
(Fly Ash)	Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkył glycosides Alkylarylsulfonate amine salt	% 40 - 50 % 20 - 30 10 - 20 5 - 10 1 - 5	JUL 1 2 WV Departr Environmental CAS number Trade secret. CAS number 111-76-2 Trade secret. 110615-47-9 Trade secret.
PA-170 z (Fly Ash)	Base	migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement. A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	Crystalline silica: Quartz (SiO2) Calcium oxide Ingredient name Organic acid salt Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	% 40 - 50 % 20 - 30 10 - 20 5 - 10	JUL 1 2 WV Departr Environmental CAS number Trade secret. CAS number 111-76-2 Trade secret. 110615-47-9

List of Frac Additives by Chemical Name and CAS

Nutter 1208 Well Pad (N-1H to N-5H, S-6H to S-10H)

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	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED Office of Oil and Gas

JUL 1 2 2019

WV Department of Environmental Protection

PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK-GANTZ SAND

WELL NAME: Nutter 1208 5-8H

Nutter 1208 S-8H Well#

DISTRICT/COUNTY/STATE: Union, Harrison, WV

Submitted

JOSH HINTON HG ENERGY, LLC DATE 7-1-19

Dominion Energy Transmission

DATE 7-9-19

Dominion Energy Transmission

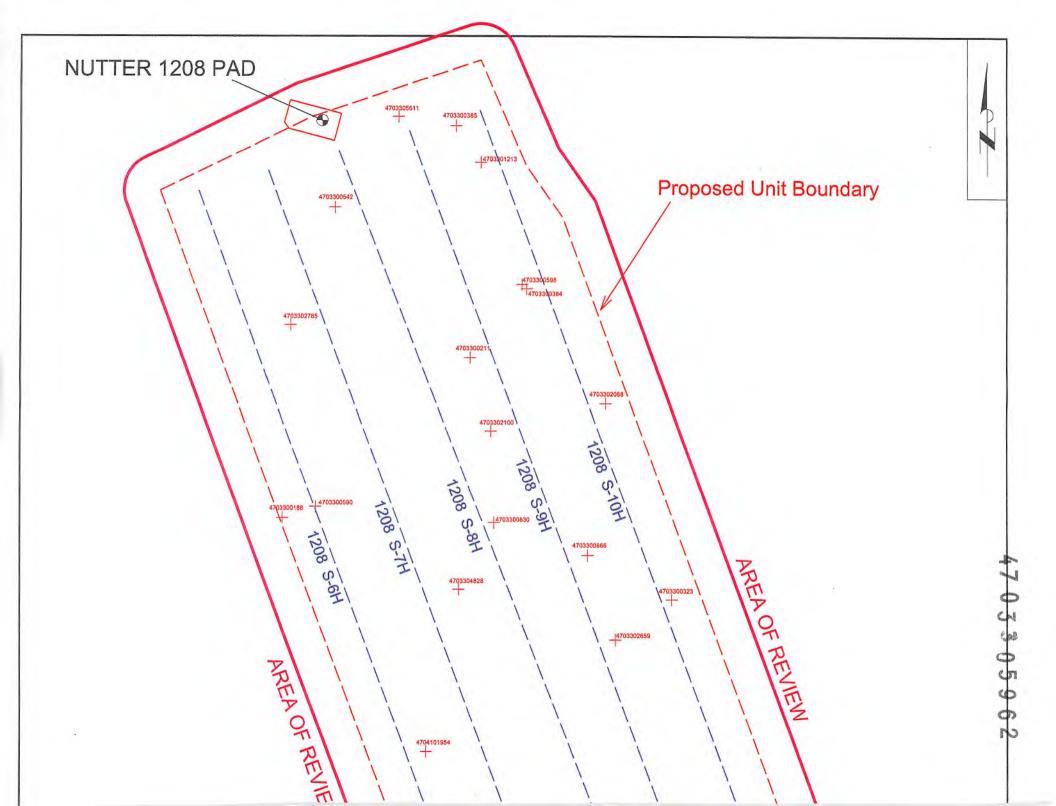
Comments:

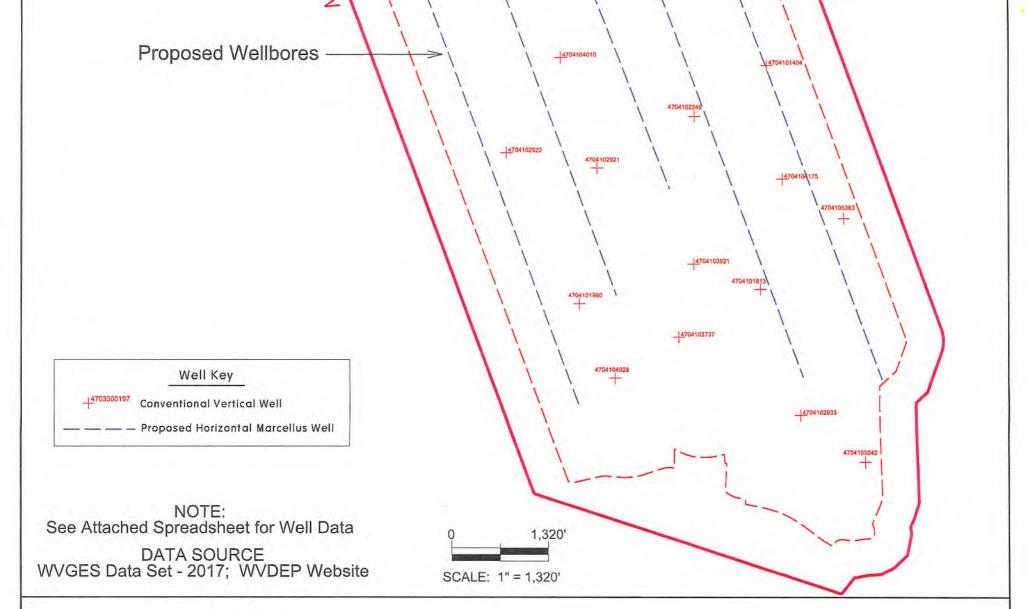
HG Energy has submitted this Casing & Cementing diagram and Drilling Plan to Dominion Transmission for Review. This signed document acknowledges that Dominion has reviewed the proposed casing program and the well's location within the Fink/Kennedy/Lost Creek storage field. This acknowledgement also confirms the proposed casing program is accurate to the proper storage zone as provided by HG Energy, LLC

RECEIVED Office of Oil and Gas

JUL 1 2 2019

WV Department of Environmental Protection





Area of Review for:

NUTTER 1208 UNIT

Proposed 1208 S-6H Proposed 1208 S-7H Proposed 1208 S-8H Proposed 1208 S-9H Proposed 1208 S-10H

Grant District, Harrison County, W.Va. Hackers Creek District, Lewis County, W.Va.

HG ENERGY, II APPALACHIA, LLC

5260 DuPont Road, Parkersburg, WV 26101



6/17/2019

API Number	47 -	
THE PROPERTY OF	11	

Operator's Well No. Nutter 208 S-8H STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

	OP Code 494501907
Watershed (HUC 10) Middle West Fork Creek	Quadrangle West Milford 7.5'
Do you anticipate using more than 5,000 bbls of water to co.	mplete the proposed well work? Yes Vo
Will a pit be used? Yes 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:	SDEW
Land Application	5 Dev 6/19/19
Underground Injection (UIC Per	THE INDIVIDUE
Reuse (at API Number TBD - At ne Off Site Disposal (Supply form V	
Other (Explain	w-5 for disposal focation)
Will closed loop system be used? If so, describe: Yes, cuttings a	and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
	ontal)? Air, freshwater, oil based, etc. Vertica - Air, Airricol. Air/SDBM, Horlzonical - SOSM
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? Water, Soap, KCI, E	
Orill cuttings disposal method? Leave in pit, landfill, remov	
-If left in pit and plan to solidify what medium will	
-Landfill or offsite name/permit number? See Attac	hed
Permittee shall provide written notice to the Office of Oil an West Virginia solid waste facility. The notice shall be provide	d Gas of any load of drill cuttings or associated waste rejected at any
where it was properly disposed.	red within 24 hours of rejection and the permittee shall also disclose
I certify that I understand and agree to the terms are on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations aw or regulation can lead to enforcement action. I certify under penalty of law that I have persons application form and all attachments thereto and that, be obtaining the information, I believe that the information is penalties for submitting false information, including the possible of the property	nd conditions of the GENERAL WATER POLLUTION PERMIT issue. Virginia Department of Environmental Protection. I understand that the sof any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for its true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.
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Proposed Revegetation Treat	ment: Acres Disturbed 22.4	Prevegetation pl	H
Lime	3 Tons/acre or to correct to	_{pH} _6.5	
Fertilizer type10	-20-20		
Fertilizer amount_	500	_lbs/acre	
Mulch_ Hay	2_ _{To}	ons/acre	
		Seed Mixtures	
Te	mporary	Perm	anent
Seed Type	lbs/acre	Seed Type	Ibs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pi provided). If water from the acreage, of the land applican	t and proposed area for land ap pit will be land applied, includ ion area	g and completion process pplication (unless engineered plans include dimensions (L x W x D) of the pit, an	nding this info have d dimensions (L x V
Attach: Maps(s) of road, location, pi provided). If water from the acreage, of the land applicate Photocopied section of invol	t and proposed area for land applit will be land applied, includion area. ved 7.5' topographic sheet.	oplication (unless engineered plans inclued e dimensions (L x W x D) of the pit, an	d dimensions (L x V
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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

Waste Management 200 Rangos Land Washington, PA 15301 724-222-3272

Emironmental Coordination Sarvices & Recycling (ECS&R) 8287 US Highway 19 Cochranton, PA 16814 814-425-7778

Disposal Locations:

Apex Environmental, LLC Permit # 05-08488 11 County Road 78 Amsterdam, OH 48908 740-545-4889

Wasimpreland Wasie, LLC Permit # 100277 111 Conner Lane Belle Vernon, PA 15012 724-928-7894

Sycamore Landfill Inc. Fermit #R80-072001, 05-2010 4801 Sycamore Ridge Road Hurricane, WV 25526 304-662-2511

Max Environhemental Technologies, Inc. Facility Permit # PAD004835146 / 301071, 253 Max Lane
Yukon, PA 25958
724-722-3500

Max Environnamental Technologies, Inc. Facility Parmit # PADJ5087072 / 801859 200 Max Drive Bulger, PA 15018 724-796-1571

Waste Management Kelly Run Permit # 100668 1901 Park Side Drive Elizabeth, PA 16067 412-884-7669

Waste Management South Hills (Arnoni) Parmit # 100382 8100 Hill Road Ulbrary, PA 15129 724-348-7018 412-384-7568

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-9372

Waste Management Meadowfill Permit # 1,032 1,488 Dawson Drive Bridgeport, WV 25580

Brooks County Landfill Permit # SWP-103-97 / WV 0105029 Rd 2 Box 410 Colliers, WV 26035 904-748-0014 Wetzel County Landfill Permit # SWF-1021-97 / WV 01.05185 Rt 1, Box 156A New Martinsville, WV 26035 804-455-2800

Energy Solutions, LLC Permit & UT 2800249 428 West 800 South Suite 200 Salt Lake City, UT 84101

Energy Salutions Services, Inc. Permit # R-73006-L24 1,550 Bear Crask Road Oak Ridge, TN 37890

Northern A-1 Environmemental Services Permit ID MIDC20906214 2947 US 131 North, PO Box 1080 Kalkaska, Mi 49646 281-253-9951

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 5790 State Route 7 New Waterford, OH 44445 890-892-0164

Nabors Completion & Production Services Go. PO Box 976562 Dalles, TX 75397-5682

Select Energy Services, LLC PO Box 208997 Dallas, TX 75920-8997

Nuverra Environmental Solutions 11942 Veterans Memorial Fighway Masonicwn, WV 26542

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

Wilson's Outdoor Services, LLC 486 Cracraft Road Washington, PA 15301

Disposal Locations

Søldification Waste Management, Arden Landfill Permit # 100172 200 Bangos Lane Washington, PA 18801 724-225-4889

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20752 6065 Arrel-Smith Road Lowelville, OH 44486 880-888-6825

Adams #1 (Buckeye Brine, LLC) Permit # 84-031-2-71.77 23986 Airport Road Coshocton, OH 48812 740-575-4484 612-478-6545 CMS of Delaware Inc. DBA CMS Oilfield Serv 301. Commerce Drive Moorestown, NJ 08057

Porce, inc. 1960 Rts. 286 Hwy. E, Suite 203 Indians, PA 18701

Solo Construction P.C. Box 544 St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

Burna prilling & Excavating 618 Crabappis Road P.O. Bos Wind Ridge, PA 16380

Nichlos 1-A (SWIV #18) Permit # 9862 200 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

Groselle (SWIW/#34) Felmit # 4066 Rt. 88 Garrettsville, OH 718-276-4816

Kemble 1-D Well Fermit # 8780 7675 East Pike Norwich, Oh 48767 514-548-8898 740-786-6495 Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78708 Permit #84-031-2-7178 740-575-4484 612-478-6545

Adams #3 (Bucksye Brine, LLC) Permit #84-081-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mazene #1 Well (SWIW # 18) Permit # 84-167-2-5511-00-00 5867 E. State Street Newcomerstown, OH 48832 740-763-3966

Goff SMD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coreopolis, PA 15108 412-829-7276

sos D#1 (SWTW #12)
Permit # 84-059-2-4202-00-00
Silcor Cilfield Services, Inc.
2989 Hubbard Road
Youngstown, PH 44505

Dudley #1. U.C (SWIW #1)
Permit # 84-121-2-2458-00-00
Select Energy Services, LLC
7994 S. Plessents Hwy
St. Marys, WV 26170
304-668-2652

OH UIC#1. Bu keye UIC Pamesville 1. & 2 CNX Gza Com., any, LLC 1,000 Consol Energy Drive Permit # 84-018-2-0508-00-00 Permit # 84-019-2-0614-00-00 804-528-6568

US Steels 11385 Permin # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15750 804-823-6568

Chapin #7 UIC (8WIW #7)
Fermit # 84-088-2-4187-00-00
Elkhead Ges& Oil Company
12168 Methe Rd. NE
Newerk, CH 48055
740-768-5966



June 24, 2019

Dominion Energy Transmission Attn: Charles Cunningham 2397 Davisson Run Road Clarksburg, WV 26301

RE:

Area of Review - Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, has developed a Marcellus pad (Nutter 1208 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7050' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Nutter 1208 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Nutter 1208 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

- 1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.
- Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
- 3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity,
- Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White



June 24, 2019

Abarta Oil & Gas Company 200 Alpha Drive Pittsburg, PA 15238

RE:

Area of Review - Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)

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Sincerely,

Diane White



June 24, 2019

Ross & Wharton Gas Company 29 Morton Street Buckhannon, WV 26201

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Sincerely,

Diane White



June 24, 2019

Alliance Petroleum Company 101 McQuiston Drive Jackson Center, PA 16133

RE:

Area of Review - Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)

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Sincerely,

Diane White



June 24, 2019

R & R Oil & Gas Company 7147 Hackers Creek Road Buckhannon, WV 26201

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We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

- 1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.
- Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
- 3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
- Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White



June 24, 2019

Enervest Operating Company 300 Capital Street, Suite 200 Charleston, WV 25304

RE:

Area of Review - Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, has developed a Marcellus pad (Nutter 1208 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7050' TVD) and existing conventional natural gas wells.

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Sincerely,

Diane White



June 24, 2019

Glass Source Inc. dba Masterpiece Crystal PO Box 848 Jane Lew, WV 26378

RE:

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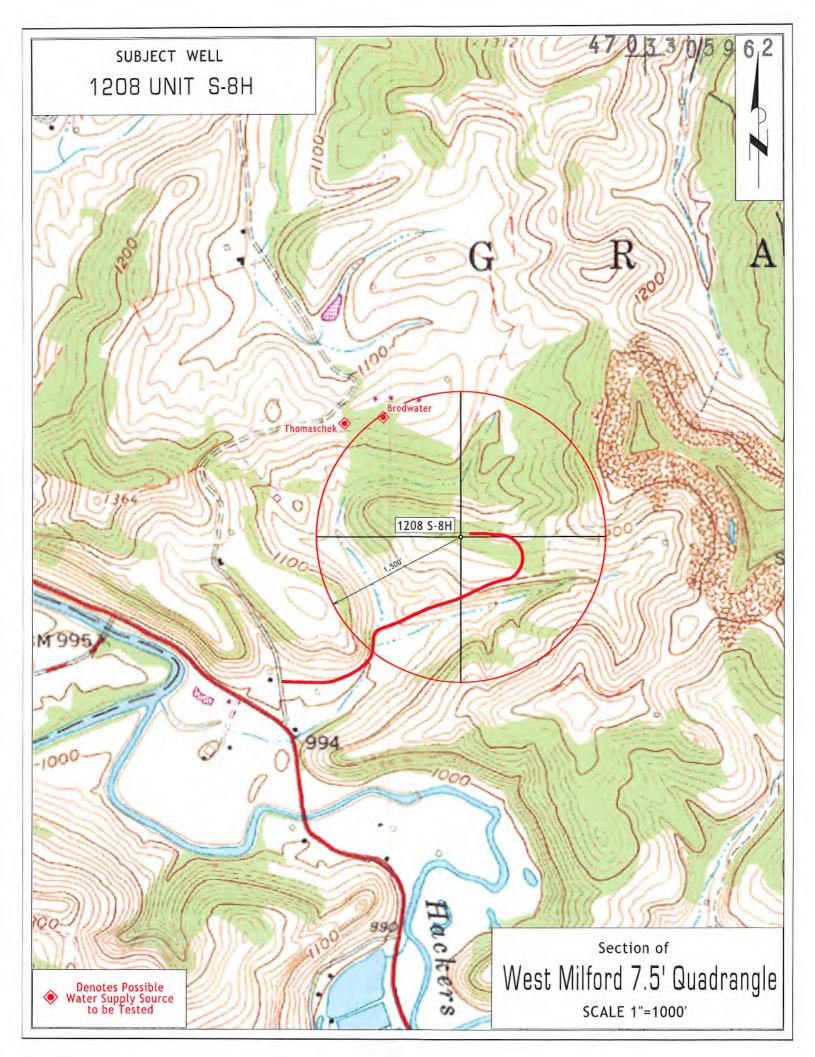
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Sincerely,

Diane White



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

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

Environmental Coordination Services & Recycling (ECS&R) 8297 US Highway 19 Cochranton, PA 16914 814-425-7778

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 1.1 County Road 78 Amsterdam, OH 48903 740-548-4889

Westmoreland Waste, LLC Permit # 1,00277 111 Conner Lane : Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R80-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004895146 / 901071, 283 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PADO5087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1801 Park Side Drive Elizabeth, PA 15087 412-884-7569

Waste Management South Hills (Arnoni) Permit # 100592 91,00 Hill Road Library, PA 15129 724-348-7013 412-384-7569

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

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26380

Brooke County Landfill Permit # SWF-108-87 / WV 0109029 Rd 2 Box 410 Colliers, WV 26025 304-748-0014 RECEIVED
Office of Oil and Gas

JUL 1 2 2019

W Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109186 Rt 1 Box 156A New Martinaville, WV 26035 804-455-3800

Energy Solutions, LLC Permit # UT 2500249 422 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-79006-L24 1,560 Bear Creek Road Oak Ridge, TN 97890

Northern A-1 Environnemental Services Permit ID MID020906814 8947 US 181 North, PO Box 1080 Kalkaska, MI 49646 281-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DCT # 720485 8790 State Route 7 New Waterford, OH 44445 830-892-0164

Nabors Completion & Production Services Co. PO Box 976682 Dallas, TX 75397-5682

Select Energy Services, LLC FO Box 208997 Dallas, TX 75320-8997

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Masontown, WV 26542

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

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

Disposal Locations:

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

Solidification/Incineration
Soli Remediation, Inc. Permit # 02-20758
6065 Arrel-Smith Road
Lowelville, OH 44486
880-586-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Ollfield serv 301 Commerce Drive Moorestown, NJ 08057

Force, inc. 1980 Rts. 286 Hwy. E, Suite 203 Indians, PA 15701

Solo Construction P.O. Box 544 St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisle, PA 17015

Myers Well Service, ___ 2001 Ballpark Court Export, PA 15632

Burna Drilling & Excavating 618 Crabappie Road P.O. Bos Wind Ridge, PA 15880

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

Grosella (SWIW #34) Permit # 4096 Rt. 88 Garrettsvilla, OH 719-276-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-786-6495 Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Fermit # 54-081-2-7178 740-575-4484 612-478-6645

Adams #8 (Buckeye Brîne, LLC) Permit #84-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 18)
Permit # 84-157-2-5511-00-00
5367 E. State Streat
Newcomerstown, OH 48882
740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 800 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Olifield Services, Inc.
2999 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2458-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
804-665-2652

OH UIC #1. Bu keya UIC Barnesville 1 & 2 CNX Gas Con...any, LLC 1000 Consol Energy Crive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-828-6668

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 804-828-6568

Chapin #7 UIC (SWIW #7)
Permit # 84-083-2-4187-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 48055
740-768-8966

HG Energy II Appalachia, LLC

Site Safety Plan

Nutter 1208 Well Pad 104 Hidden Valley Rd Jane Lew Harrison County, WV 26378

November 2018: Version 1

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

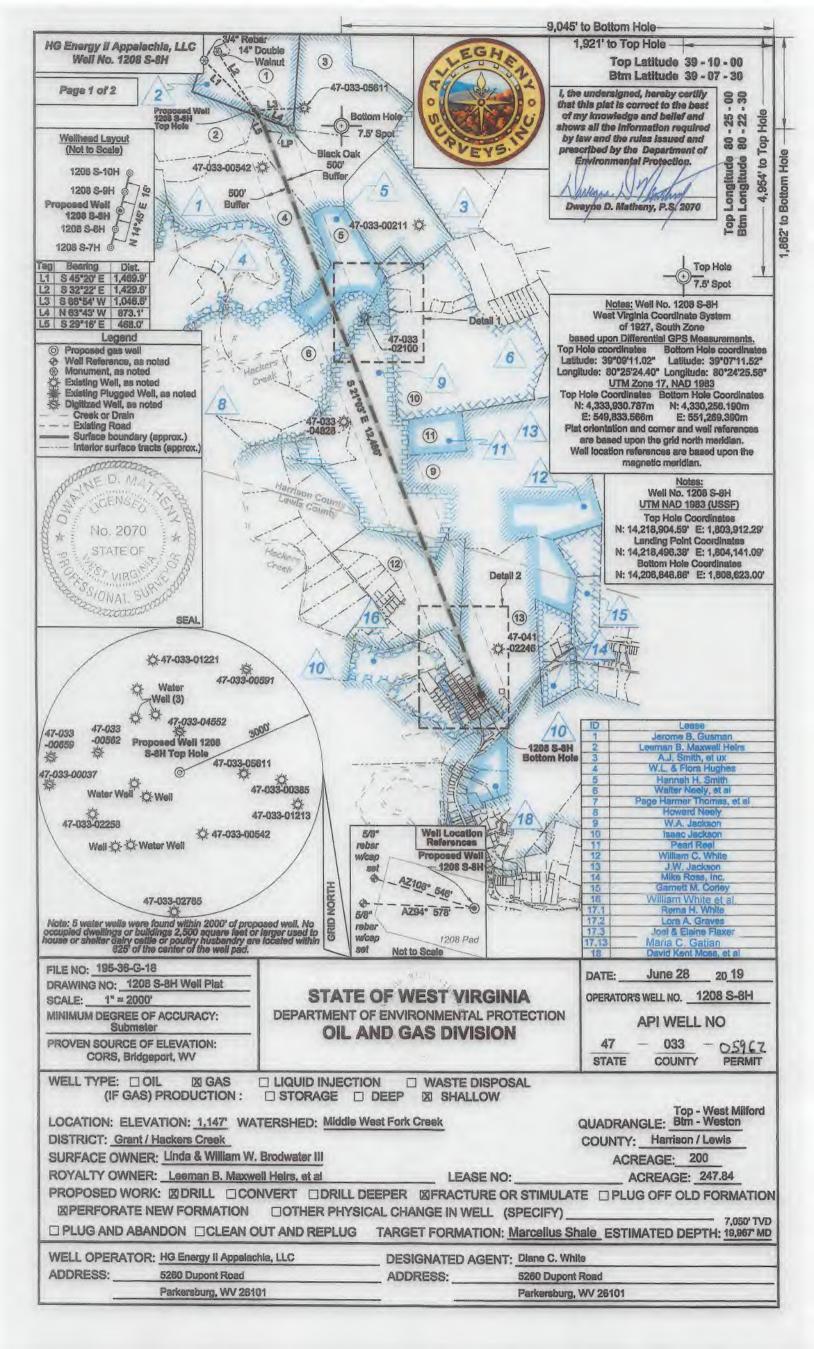
HG Energy II Appalachia, LLC

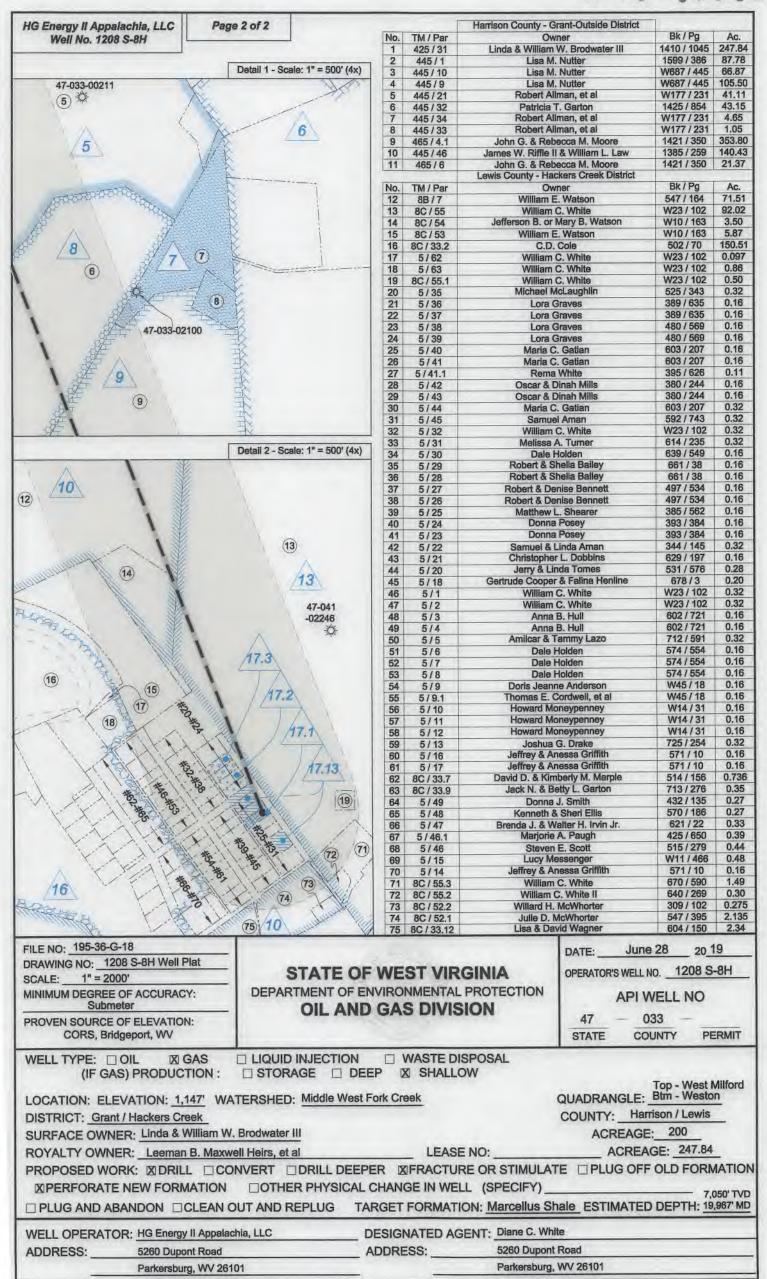
5260 Dupont Road

Parkersburg, WV 26101

50W







1 4703300188	API COUNTY	FY FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	DVT	STATUS	LATITUDE	LONGITUDE
	0188 Harrison	on H Neeley	Dominion Energy Transmission, Inc.	Gordon Stray	Storage	1928	Active	39.138239	Н
2 4703300211	0211 Harrison	on HHSmith	Dominion Energy Transmission, Inc.	Gordon	Storage	2064	Active	39.143537	-80.416852
3 4703300323		on J W Jackson	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	3457	Plugged	39.135017	-80.406567
4 4703300384			Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2386	Plugged	39.146875	-80.413572
5 4703300385			Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2337	Plugged	39.153261	-80.416667
6 4703300542		Ū	Dominion Energy Transmission, Inc.	Benson	Gas	4386	Active	39.149646	-80.422998
7 4703300590		Ū	Dominion Energy Transmission, Inc.	Benson	Gas	4280	Active	39.138311	-80.423561
8 4703300598	0598 Harrison		Dominion Energy Transmission, Inc.	Benson	Storage	4460	Active	39.146004	-80.413012
9 4703300830			Dominion Energy Transmission, Inc.	Bayard	Gas	2272	Active	39.137961	
10 4703300866	I	ij	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2150	Active	39.136716	
11 4703301213	1213 Harrison		Dominion Energy Transmission, Inc.	Benson	Gas	4560	Active	39.151519	-80.414689
12 4703302088	2088 Harrison	Ī	Dominion Energy Transmission, Inc.	Benson	Gas	4800	Active	39.141505	-80,409657
13 4703302100			Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	4450	Active	39.140489	-80.415434
14 4703302659			Abarta Oil & Gas Company	Benson	Gas	4554	Active	39.133523	-80.409285
			Dominion Energy Transmission, Inc.	Benson	Gas	4300	Active	39.144698	-80.425983
16 4703304828	4828 Harrison		Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4266	Active	39.135870	-80.417267
17 4703305611	5611 Harrison		Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4510	Active	39.153269	-80.419572
18 4704101404	1404 Lewis	S CH Stalnaker 1	Ross & Wharton Gas Company, Inc.	Benson	Gas	4300	Active	39.124468	-80.402142
.9 4704101813			Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4520	Active	39.116392	-80.403107
20 4704101954	1954 Lewis		Dominion Energy Transmission, Inc.	Benson	Gas	4280	Active	39.129161	-80.418886
1 4704101960	1960 Lewis		Dominion Energy Transmission, Inc.	Benson	Gas	4200	Active	39.115812	-80.411298
2 4704102246	2246 Lewis		Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3232	Active	39.122918	-80.405530
3 4704102921	2921 Lewis		Alliance Petroleum Corporation	Benson	Gas	4292	Active	39,120791	-80.410070
24 4704102922	2922 Lewis		Alliance Petroleum Corporation	Benson	Gas	2593	Abandoned	39.121208	-80.414691
4704102933	2933 Lewis	s A Bargerhoff	R&R Oil & Gas, LLC	Benson	Gas	4289	Active	39.111238	-80.400638
26 4704103737	3737 Lewis	s L.L. Moss	Enervest Operating, LLC	Brallier	Gas	5350	Active	39.114216	-80.406457
4704103921	3921 Lewis	s L.L. Moss	Enervest Operating, LLC	Benson	Gas	4259	Active	39.116972	-80.405714
4704104010	4010 Lewis	s William Watson	Enervest Operating, LLC	Greenland Gap Fm	Gas	4450	Plugged	39.124803	-80.412048
4704104175			Ross & Wharton Gas Company, Inc.	Greenland Gap Fm	Gas	4700	Active	39.120162	-80.401433
4704104928	4928 Lewis		Glass Source Inc, DBA Masterpiece Crystal	Misc Sands-BNSN/BRLR	Gas	4220	Abandoned	39.112911	-80.409435
4704105042	5042 Lewis	s J Thomas Small	Ross & Wharton Gas Company, Inc.	Misc Sands-BNSN/BRLR	Gas	4850	Active	39.109286	-80.397520
4704105383	5383 Lewis	s Christine White/W C White	Dominion Energy Transmission, Inc.	Brallier	Gas	4946	Active	39.118857	-80.398640

WW-6A	1
(5/13)	

Operator's Well No.	Nutter 1208 S-8H

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 **

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 A	Appalachia, LLC	
By:	Diane White	Diane White	
Its:	Agent		

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				HG Energy II Appalachia 1208S LEASE CHAIN				
			T	12085 LEASE CHAIN				
RACT#	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
KACI#	NOWBER	TAX WAF	ELASE NOMBER	LEEMAN B. MAXWELL HEIRS	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	176	
	1			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	
	1			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
			i	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	MERGER/NAME CHANGE	1325	
	l i			DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1427	
2]	17 12 0425 0021 0002		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
	LC014207	17-12-0425-0031-0003	Q101051000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
	2027207	17-12-0425-0031-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
	1 1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
	[DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
]]			DOMINION TRANSINISSION, INC.	Sommer Literary International Property Intern	SECOND AMENDMENT TO MEMORANDUM OF	† · · · · · · · · · · · · · · · · · · ·	
	<u> </u>			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
				J.B. GUSMAN AND ADALINE GUSMAN	TREAT AND CRAWFORD	NOT LESS THAN 1/8	158	
	i			TREAT AND CRAWFORD	UNITED FUEL GAS COMPANY	ASSIGNMENT	226	
		47 20 0444 0044 0000		UNITED FUEL GAS COMPANY	FAYETTE COUNTY GAS COMPANY	ASSIGNMENT	UNRECORDED	
	1	17-20-0444-0011-0000,		FAYETTE COUNTY GAS COMPANY	HOPE NATURAL GAS	ASSIGNMENT	201	
	FK020606	17-20-0444-0011-0001, 17-20-0444-0011-0002, 17-20-0444-0011-0003, 17-20-0444-0012-0000, 17-12-0444-0013-0000, 17-12-0444-0014-0000, 17-12-0444-0021-0000, 17-12-0444-0021-0001, 17-12-0445-0001-0000, 17-12-0445-0001-0000,			CONSOLIDATED GAS SUPPLY COMPANY	MERGER/NAME CHANGE	903	
				HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
					DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
				CNG TRANSMISSION CORPORATION	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1409	
			0400370000	DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1442	
1			Q100370000	DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	
				DOMINION EXPLORATION & PRODUCTION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
	1		-0445-0009-0000, -0445-0010-0000,	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
]	17-12-0445-0009-0000,		CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
]	17-12-0445-0010-0000,		NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		17-12-0445-0011-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSPINISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	*******	
]		1	DOMINION ENERGY TRANSMISSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
				DOMINION ENERGY TRANSMISSION, INC. HANNAH H. SMITH, WIDOW; IRENE FERRELL, SINGLE; ELECTA E.	ING ENERGY II AFFADACINA, EEC		1301	
				TAYLOR, SINGLE; EVA RUTH SMITH, WIDOW; WILDA C. TAYLOR AND				
	1			JOHN W. TAYLOR, HER HUSBAND; BERTIE JUSTICE, WIDOW; ORA			1	
				FLECHER, WIDOW; THE UNION NATIONAL BANK, COMMITTEE FOR				
				FRED RUSKIN FLECHER, C. W. MORROW AND LUCY MORROW, HIS				
				WIFE; FRENCH TRIMBLE AND VA. C. TRIMBLE, HIS WIFE; E. B. SMITH	!			
				AND BLANCHE PARRILL SMITH, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	748	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
			1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	-
5	FK065540	17-12-0445-0021-0000	Q100562000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	1 1		1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
] [l l	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
			1					
	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO FARMOUT AGREEMENT	1524	
	1 1		i .	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	

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	1			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		l l		DOMINION INPRISONAL INC.		SECOND AMENDMENT TO MEMORANDUM OF		
	İ			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
		17-12-0444-0032-0000,						
		p/o 17-12-0444-0043-0000,						
		p/o17-12-0445-0020-0000,						
	1	17-12-0445-0030-0001,			<u> </u>			
		17-12-0445-0030-0002,						
		17-12-0445-0030-0003,						
		17-12-0445-0030-0004,		HOWARD NEEDY A SINCLE MAN	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	174	
		17-12-0445-0030-0005,		HOWARD NEELY, A SINGLE MAN	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	
		17-12-0445-0030-0000,		HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		17-12-0445-0044-0000,		CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	FK014008	p/o 17-12-0445-0001-0000,	Q100369000		DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		17-12-0465-0001-0000,		CNG TRANSMISSION CORPORATION	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		17-12-0465-0002-0000,		DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
		17-12-0465-0012-0000,		DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
		p/o 21-04-008B-0001-0000,		CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
		21-04-008B-0001-0001,		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
		21-04-008B-0001-0005,		NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		p/o 21-04-008B-0001-0007,		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	*******	
		p/o 21-04-008B-0001-0009, p/o 21-04-008B-0004-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
				and the second s	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	756	
				W. A. JACKSON	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	903	
		l i		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	l	l		CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		J		CNG TRANSMISSION CORPORATION	DOMINION EXPLORATION & PRODUCTION, INC.	CONFIRMATORY ASSIGNMENT	1414	
				DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1457	
		i I		DOMINION EXPLORATION & PRODUCTION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		p/o 17-12-0465-0004-0000; p/o 17-12-0465-0004-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	INCINORALIDON FARMOOF AGREEMENT	1322	
9	FK066065		Q100728000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO FARMOUT AGREEMENT	1524	
		1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
					NOBLE ENERGY, INC.	ASSIGNMENT	1584	
	1			CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
				NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TO MISSISSING MES	SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
	 							
		21-04-008B-0004-0000; 21-04-008B-0005-0000, 0001;						
		21-04-008B-0005-0000; 21-04-008B-0006-0000;		ISAAC JACKSON	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	58	
		21-04-008B-0007-0000, 0001, 0002,		SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT (GAS)	73	
	1	0003, 0014, 0015, 0016, 0017;		HOPE NATURAL GAS COMPANY	JANE LEW LIGHT AND HEAT COMPANY	ASSIGNMENT (5 ACRES OF LEASEHOLD)	113	
				JANE LEW LIGHT AND HEAT COMPANY	STANDARD GAS COMPANY	ASSIGNMENT	113	
		21-04-008C-0029-0000; 21-04-008C-0030-0000, 0002;		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	MERGER/NAME CHANGE	294	
		1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
		21-04-008C-0031-0000, 0001, 0002,		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
	1	0003;		CNG TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	JOINT VENTURE AGREEMENT	UNRECORDED	
		21-04-008C-0054-0000;		CNG TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	477	
	1	21-05-0001-0050-0001;	ł	EMAX OIL COMPANY	CABOT OIL AND GAS CORPORATION	FARMOUT AGREEMENT	UNRECORDED	
	1	21-05-0001-0048-0000;	1	EMAX OIL COMPANY	CABOT OIL AND GAS CORPORATION	ASSIGNMENT	513	
		21-05-0001-0084-0000;				ASSIGNMENT	558	

10	LC009807	1	CT00P50000	CNG TRANSMISSION CORPORATION	CNG PRODUCING COMPANY	ASSIGNMENT	522	528
		21-04-008C-0086-0000;		CNG TRANSMISSION CORPORATION	EMAX OIL COMPANY	WELLBORE ASSIGNMENT	522	189
		21-05-0001-0066-0000, 0002, 0003,		CNG TRANSMISSION CORPORATION	GAS EXPLORATION AND DEVELOPMENT COMPANY	ASSIGNMENT	554	605
		0004, 0005, 0006, 0007, 0008, 0009;		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	1	21-04-008C-0058-0000;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	672	154
	ŀ	21-04-008C-0049-0001;		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
		21-04-008C-0052-0001, 0002;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
		21-05-0002-0021-0001;		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		21-04-008C-0033-0001, 0010, 0012,		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	CORRECTIVE ASSIGNMENT TO DB 717-1	725	784
	Ī	0009, 0008, 0005, 0006,		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
		0007, 0004, 0003, 0002, 0000;		DOMINION TRANSMISSION INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		21-04-008C-0047-0000; 04-0008C-0047		DOMINATOR TRANSPORTATION		SECOND AMENDMENT TO MEMORANDUM OF		
	Ì	0001; 04-008C-0047-0002, 0003, 0004;		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
		21-04-008C-0034-0000;		DOMINION ENERGY TRANSMISSION, INC.	The state of the s			
		21-04-0008C-0026-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
				JAMES W. JACKSON AND S. A. JACKSON, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	58	425
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT (GAS)	73	272
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
		p/o 17-12-0465-0004-0000; p/o 17-12-0465-0004-0001; 21-04-008C-0049-0001; 21-04-008C-0052-0000; 21-04-008C-0052-0001; 21-04-008C-0052-0002; 21-04-008C-0055-0000; 21-04-008C-0055-0000; 21-04-008C-0055-0001; 21-04-008C-0055-0001; 21-04-008C-0055-0002;	Q101005000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	672	154
				SOUTH PENN OIL COMPANY	PENNZOIL COMPANY	MERGER/NAME CHANGE	5	564
				PENNZOIL COMPANY	PENNZOIL PRODUCTS COMPANY	ASSIGNMENT	454	34
				PENNZOIL COMPANY	PENNZOIL PRODUCTS COMPANY	ASSIGNMENT	460	139
				PENNZOIL PRODUCTS COMPANY	PENNZOIL EXPLORATION AND PRODUCTION COMPANY	ASSIGNMENT	551	627
13	LC009809			PENNZOIL EXPLORATION AND PRODUCTION COMPANY	PENNZENERGY EXPLORATION AND PRODUCTION, LLC	MERGER/NAME CHANGE	8	343
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
17.2	G-2	21-04-0005-0038-0000;	G-2	Lora A. Graves	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	741	641
		21-04-0005-0039-0000						
17.40		21-04-0005-0040-0000;	G-5	Maria C. Gatian	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	741	649
17.13	G-5	21-04-0005-0041-0000;	u-5	Iviaria O. Caudii	,	<u> </u>		
17.1	G-6	21-04-0005-0044-0000 21-04-0005-0041-0001	G-6	Rema H. White	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	741	645
		21-04-0005-0036-000, 21-04-0005-			HIC ENERGY II ARRAI ACHIA LLC	NOT LESS THAN 1/8	741	641
17.3	G-4	0037-0000	G-4	Joel & Elaine Flaxer	HG ENERGY II APPALACHIA, LLC	NOT LESS TRIMIT 1/0	/ * *	041



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

June 21, 2019

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

RE:

Drilling Under Roads - Nutter 1208 S-8H

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

JUL 1 2 2019

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

Date of Notic	e Certification: 06/21/2019		PI No. 47		
				Well No. Nutte	
		W	ell Pad N	ame: Nutter V	/ell Pad
Notice has b	oeen given:				
	e provisions in West Virginia Code §	22-6A, the Operator has provid	ed the req	uired parties v	vith the Notice Forms listed
	tract of land as follows:	T.		540000 6	
State:	West Virginia		asting:	549833.6 4333930.8	
County:	Harrison	Public Road Access	orthing:	SR 19	
District:	Grant Milford	Generally used farm		Nutter	
Quadrangle: Watershed:	West Milford Middle West Fork Creek	Generally used faili	i maine.	Nutter	
watersned:	Middle West Fork Creek				
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and sled the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall to have been completed by the applicant	ped in subdivisions (1), (2) and ction sixteen of this article; (ii) to the rvey pursuant to subsection (a), for this article were waived in when the proof of and certify to the	(4), subst hat the rec section triting by t	ection (b), sec quirement was en of this arti the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope *PLEASE CHE 1. NOT 2. NOT	West Virginia Code § 22-6A, the Oprator has properly served the required ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or FICE OF ENTRY FOR PLAT SURV	Departies with the following: NOTICE NOT REQUIRE: SEISMIC ACTIVITY WAS CO	D BECAU CONDUCT WAS CO	JSE NO FED ONDUCTED JSE	OOG OFFICE USE ONLY RECEIVED/ NOT REQUIRED RECEIVED/ NOT REQUIRED
■ 5. PUE	TICE OF PLANNED OPERATION BLIC NOTICE	☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFAC	CE OWNER	☐ RECEIVED ☐ RECEIVED
■ 6. NO	TICE OF APPLICATION				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-11(b), the Certification of Notice to the person may be made by affidavit of personal service, followed the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

 Well Operator:
 HG II Appalachia, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

 Telephone:
 304-420-1119
 Email:
 dwhite@hgenergyllc.com

NOTARY SEAL
OFFICIAL SEAL
NOTARY PUBLIC, STATE OF WEST VIRGINIA
MARK J SCHALL
H G Energy LL C
PO Box 5519, Vienna, WV 26105
My Commission Expires November 2, 2021

Subscribed and sworn before me this 21st day of June, 2019

Notary Public

My Commission Expires_

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.

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 07/09/2019 Date Permit Application Filed: 07/15/2019

Notice of:	
■ PERMIT FOR ANY ☐ CERTIFICATE OF AF	PPROVAL FOR THE
WELL WORK CONSTRUCTION OF	AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)
☐ PERSONAL ☐ REGISTERED ■ METI	HOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL RECI	EIPT OR SIGNATURE CONFIRMATION
for a certificate of approval for the construction of an impound or by registered mail or by any method of delivery that requires erosion and sediment control plan required by section seven of owners of record of the surface of the tract on which the well is tract or tracts overlying the oil and gas leasehold being develop roads or other land disturbance as described in the erosion and seven of this article; (3) The coal owner, operator or lessee, in located [sic] is known to be underlain by one or more coal sear oil and gas leasehold being developed by the proposed well we enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the app within one thousand five hundred feet of the center of the well domestic animals; and (6) The operator of any natural gas stora (c)(1) If more than three tenants in common or other co-owner the lands, the applicant may serve the documents required upon	g date of the application, the applicant for a permit for any well work or ment or pit as required by this article shall deliver, by personal service is a receipt or signature confirmation, copies of the application, the of this article, and the well plat to each of the following persons: (1) The stories or is proposed to be located; (2) The owners of record of the surface bed by the proposed well work, if the surface tract is to be used for sediment control plan submitted pursuant to subsection (c), section the event the tract of land on which the well proposed to be drilled is ms; (4) The owners of record of the surface tract or tracts overlying the ork, if the surface tract is to be used for the placement, construction, or impoundment or pit as described in section nine of this article; (5) licant to have a water well, spring or water supply source located pad which is used to provide water for consumption by humans or age field within which the proposed well work activity is to take place. In the person described in subsection (b) of this section hold interests in the person described in the records of the sheriff required to be made of this code. (2) Notwithstanding any provision of this article to the alless the lien holder is the landowner.
■ SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE
Name: Lisa Nutter (Surface, Road, Water)	Name:
Address: 382 Hidden Valley Road	Address:
Jane Lew, WV 26378 Name: William W. & Linda Broadwater (Surface and Water Well)	
Address: 132 Praise Lane	☐ COAL OPERATOR
Jane Lew, WV 26378	Name:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name: See Above	■ WATER PURVEYOR(s)
Address:	27
Name:	Address:
Address:	Address.
SURFACE OWNER(s) (Impoundments/Pits) Name:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Dominion Energy Transmission - Attn: Ron Waldren
Address:	Address: 925 White Oaks Blve
	Bridgeport, WV 26330
	*Please attach additional forms if necessary

4703 305962

WW-6A (5-12) API NO. 47OPERATOR WELL NO. Nutter 1208 S-8H
Well Pad Name: Nutter 1208

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 also 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.

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.

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.

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.

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 wellpad 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 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 WW-6A (5-12) API NO. 47-

470330596

OPERATOR WELL NO. Nutter 1208 S-8H

Well Pad Name: Nutter 1208

factors, if necessary.

Written Comment:

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

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

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

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.

Office of Oil and Gas

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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-instruction 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.

API NO. 47- 47 0 3 3 0 5 9 6 2 OPERATOR WELL NO. Nutter 1208 8-8H 9 6 2 Well Pad Name: Nutter 1208

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.

Notice	is	hereby	given	by:

Well Operator: HG Energy II Appalachia, LLC
Telephone: 304-420-1119

Telephone: 304-420-1119 Parkersburg, WV 26101
Email: dwhite@hgenergyllc.com Diane White 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.

Address:

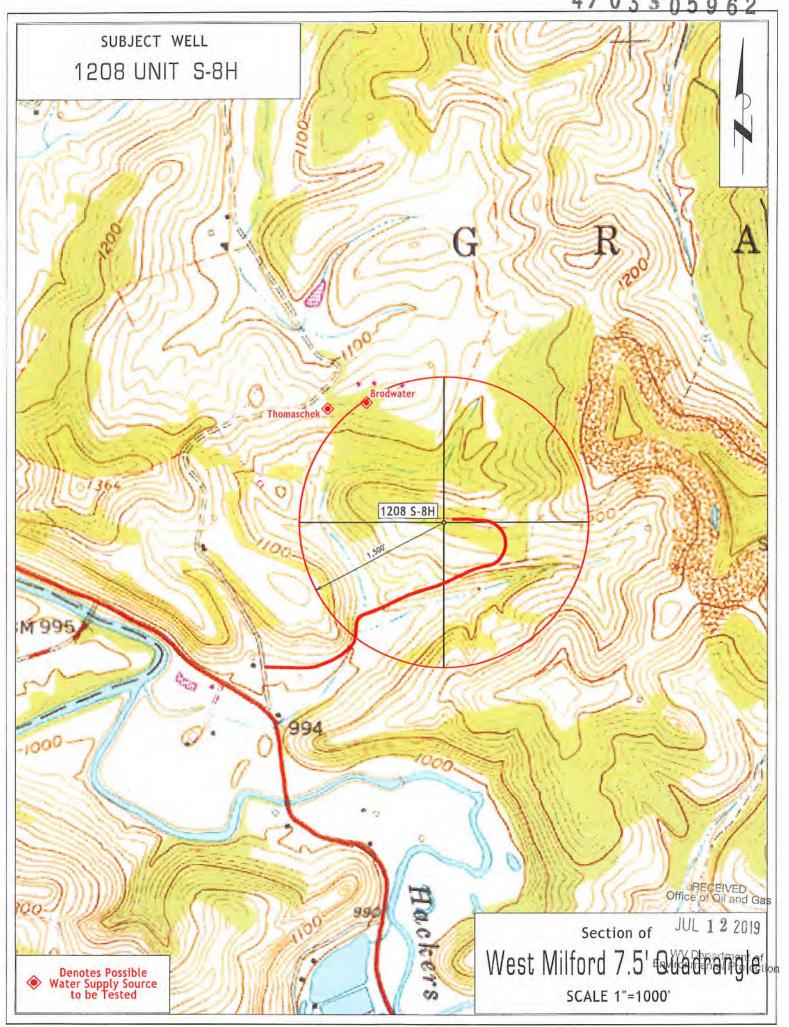
OFFICIAL SEAL
NOTARY PUBLIC. STATE OF WEST VIRGINIA
MARK J SCHALL
H G Energy L L C
PO Box 5519, Visnna, WV 28105
My Corurnission Expires November 2, 2021

Subscribed and sworn before me this 9th day of July, 2019

5260 Dupont Road

Notary Public

My Commission Expires 1/2/20



WW-6A3 (1/12)

Operator Well No. Nutter 1208 S-8H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Delivery metho		nned Entry: 6/07/2019			
-					
	od pursuant to West Virginia Co	ode § 22-6A-10a			
☐ PERSONA	AL REGISTERED	■ METHOD OF DE	LIVERY THAT RI	EOUIRES A	
SERVICE		RECEIPT OR SIG			
on to the surface but no more that beneath such tracowner of minerand Sediment C Secretary, whice enable the surface	st Virginia Code § 22-6A-10(a), Pose tract to conduct any plat surveys an forty-five days prior to such entact that has filed a declaration pursuals underlying such tract in the concontrol Manual and the statutes and histatement shall include contact in the owner to obtain copies from the	required pursuant to this a ry to: (1) The surface owns suant to section thirty-six, a unty tax records. The notion d rules related to oil and ga information, including the a	rticle. Such notice or of such tract; (2) article six, chapter the shall include a stage of sexploration and pro-	shall be provided at least to any owner or lessee twenty-two of this code attement that copies of production may be obtained.	ast seven days of coal seams e; and (3) any the state Erosion ined from the
Notice is hereb					
	OWNER(s)		L OWNER OR LE		
Name: Lisa M. Address: 382 Hid	The state of the s	Name:			
All A Sale March Street	w, WV 26378	Address:			
	W. & Linda Broadwater				
Address: 132 Pra		III MINI	ERAL OWNER(s)		
	ew, WV 26378				
		Name:	**See Attached Sheets**		
Address:		Address:			
			h additional forms if ne	cessarv	
Notice is here Pursuant to Wes a plat survey on	by given: st Virginia Code § 22-6A-10(a), no the tract of land as follows:				ntry to conduct
The same of the sa	Vest Virginia	Approx. Latit	ude & Longitude:	39.153154 / 80.423256	
County: H	larrison			SR 19/ Hackers Creek Road	
District: G	Grant	Watershed:		Middle West Fork Creek	
Quadrangle: w	est Milford	Generally use	d farm name:	Nutter	
may be obtained Charleston, WV obtained from th Notice is here! Well Operator: Telephone:	HG Energy II Appalachia, LLC 304-420-1119	epartment of Environmenta of such documents or addit wv.gov/oil-and-gas/pages/o	l Protection headque onal information re	uarters, located at 601	57th Street, SE.
Email:	dwhite@hgenergyllc.com Diane W	Facsimile:	304-863-3172		JUL 1 2 2019

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.



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

May 31, 2019

RE: Nutter 1208 Well Pad (S-6H thru S-10H)

Grant District, Harrison County

West Virginia

To Whom It May Concern:

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Your rights as a royalty owner can be obtained from the Secretary at the WVDEP at 304-926-0450.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

JUL 1 2 2019



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

August 10, 2018

Re: Lease Boundary Surveys – 1208 Drilling Unit

To: Landowners Located within the 1208 Drilling Unit:

HG Energy II Appalachia, LLC (HG) is planning to drill a Marcellus well in Harrison and Lewis Counties, WV. Your property has been identified as being located within the proposed drilling unit area.

HG has contracted with Allegheny Surveys, Inc. (ASI) of Bridgeport, WV to accurately locate and map HG's lease boundaries in the drilling unit. This letter is provided as authorization for ASI to act as agent on behalf of HG to survey and map HG's lease boundaries in preparation for the prospective well work permit.

As agent for HG, ASI is expected conduct its operations in a safe, courteous and respectful manner. If you have any problems with the survey crew on your property, or if you have any questions regarding HG's operations, you may call me at 304-420-1120 to discuss.

Thanks you for your cooperation with us during this project.

Respectfully,

Timothy P. Roush, PS

Operations Land Manager HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101

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JUL 1 2 2019

1208S-8H

<u>WW-6A3</u> (1-12)

Page 1 Continued

Mineral Owners

Argent Trust Company
Agent for Mary V. Gray Trust 1983
c/o David M. Gray
621 N. Robinson, Suite 100
Oklahoma City, OK 73102

AnnaBelle Lawton Family Trust dated July 26, 1994 WE Lawton and TC Lawton Co-Trustees 1228 N. Park Ave Winter Park, FL 32789-2542

Argent Trust Company Agent for David Maxwell Gray 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Donna Frumento 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Jane M Hardin 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Joseph L Maxwell 621 N. Robinson, Suite 100 Oklahoma City, OK 73102 Ann Brashear Fitzgerald 625 Windsor PL. Tyler, TX 75701

Argent Trust Company Agent for Charles L Maxwell 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company
Agent for Deborah Bell Meyer
621 N. Robinson, Suite 100
Oklahoma City, OK 73102

Argent Trust Company Agent for Elizabeth A Beveridge 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for JR Gray Koubek & TD Koubek 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Karen M Henderson 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

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1208S-8H

WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

Argent Trust Company Agent for Kimberlee K Holland 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Piala Living Trust c/o Vanessa Jo Piala 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Steven L Maxwell 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Beverly Mae Street 9062 Water Tupelo Road Fort Myers, FL 33912

Broad Run Baptist Church PO Box 542 Jane Lew, WV 26378

Buckner W. Hornor 6904 Cortez Rd West, Lane 4, Unit 28 Bradenton, FL 34210

Carol Ann Hurst 132 Poplar Loop Drive Flat Rock, NC 28731

Catherine E Davisson 83 Cameron Rd Clarksburg, WV 26301 Argent Trust Company Agent for Pamela Voigt 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Robert Nimorwic 624 N. Robinson, Suite 100 Oklahoma City, OK 73102

Argent Trust Company Agent for Susan Brown Yunker 621 N. Robinson, Suite 100 Oklahoma City, OK 73102

Beverly Diane Card 159 Foster Road Mocksville, NC 27028

Broad Run Baptist Church Cemetery Association PO Box 504 Jane Lew, WV 26378

C J Martin, II PO Box 788 Buckhannon, WV 26201

Carolyn Louise Street 205 Hidden Meadows Circle Renfrew, PA 16053

Cathy L Watson PO Box 764 Jane Lew, WV 26378

WW-6A3 (1-12)

1208S-8H

Page 1 Continued

Mineral Owners

Celia Linn Ferrell Baiker 5958 Chestnut Ct Viriginia Beach, VA 45424

Charles E Garton Trust PO Box 1234 Weston, WV 26452

D. Kent Moss Agent for Aron Kent Moss 141 Ferguson Rd. Elkins, WV 26241

David Kent Moss 23 Moss Road Elkins, WV 26241

Deborah Nay Stutler 9967 WV Route 18S New Milton, WV 26411

Donald R. Wilson 212 NE 56th St Oak Island, NC 28465-4919

Donna L. Hutton 828 Tremont Ave Lexington, KY 40502-2234

Falina A Henline 501 N. River Ave Weston, WV 26452

Gary Manford 824 Mullen Road Los Ranchos, NM 87107 Chandra D. Beam PO Box 382 Jane Lew, WV 26378

Cora A Mearns 2111 Maplewood Drive Bridgeport, WV 26330

Dale R Holden 904 Kincheloe Road Jane Lew, WV 26378

David Neely Thrush 865 Seddon Cove Way Tampa, FL 33602

Delores Jean Moats 90 Kincaidville Road Walkersville, WV 26447

Donna Kay Posey PO Box 623 Jane Lew, WV 26378

Eric R. Smith 1608 Smith Run Road Weston, WV 26452

Frank H. Neely 21 Belmeade Terrace Uniontown, PA 15401-5237

Geneva Bruffey 500 Henrie Lane Williamstown, WV 26187

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WW-6A3 (1-12)

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Page 1 Continued

Mineral Owners

George A Orr IV 6221 East Blanche Drive Scottsdale, AZ 85254

Iden Scott McWhorter 1661 LaFrance St Ne Unit 314 Atlanta, GA 30307

Jackson L Smith PO Box 457 Substitution Creek, WV 26385

James Y Hornor and Jean S Hornor 5002 Esmond Lane Castle Rock, CO 80108-9027

Jane Elizabeth Thrush 49 Buckeye Ave Oakland, CA 94618

Jeffrey Alan Street 6017 Pine Ridge Road Suite 190 Naples, FL 34119

Jill Lambert 219 Ballantrae St Valparaiso, IN 46385

John D. Allman PO Box 490 Jane Lew, WV 26378

John Henry McWhorter 5392 Duck Creek Road Lost Creek, WV 26385 Gregory Hurd and Trisha Hurd PO Box 714 Jane Lew, WV 26378

Jack Street Testamentary Trust A & B Carolyn Louise Street, Trustee 205 Hidden Meadows Circle Renfrew, PA 16053

James R Kettering Jr. 122 Center Court Bridgeport, WV 26330

Jane Elizabeth Horn 958 McCanns Run Road Jane Lew, WV 26378

Jane Lew Water Commission PO Box 845 Jane Lew, WV 26378

Jerry & Linda Tomes 6850 US HWY 19N Jane Lew, WV 26378

Joel & Elaine Flaxer 35 Jackson Heights Rd Jane Lew, WV 26378

John Daniel Justice 1715 Locust Ave Ashland, KY 41101

John Lairl Moss 9031 Old Elkins Rd Buckhannon, WV 26201

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JUL 1 2 2019

1208S-8H

WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

John P Hutton 1906 Oak Ridge Dr Charleston, WV 25311

Kenneth Allman 1442 Kesling Mill Road Buckhannon, WV 26201

Laura J Hudson 6221 East Blanche Drive Scottsdale, AZ 85254

Lewis County Board of Education 358 Court Ave Weston, WV 26452

Lonnie Kincaid 28 Bablin Ingo Road Ireland, WV 26376

Lucille Davisson 1108 Oakbridge Drive Hurricane, WV 25526-8838

Maria C Gatian 65 Jackson Heights Jane Lew, WV 26378

Mary H. Balmer 619 Ohio Ave Eustis, FL 32726-5121

Mary Louise Thrush McDowell 2607 West 16th St Wilmington, DE 19806 Julie D McWhorter PO Box 447 Jane Lew, WV 26378

Larry Robert Street 111 Dale Wood Drive Lavalette, WV 25535

Lawrence Blair Thrush, Jr 9 Fox Chase Road Charlestown, WV 25304-2755

Lonnie C Paugh and Karen L Paugh PO Box 573 Jane Lew, WV 26378

Lora A Graves 47 Jackson Heights Rd Jane Lew, WV 26378

Lundy H and Deborah H McMillion 101 Locust St Jane Lew, WV 26378

Mark Fitzpatrick 84 Keith Fork Road Weston, WV 26452

Mary Jane Lewis PO Box 504 Lost Creek, WV 26385

Matthew Lawernce & Sharon Shearer P.O. Box 413 Jane Lew, WV 26378

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WW-6A3

1208S-8H

Page 1 Continued

Mineral Owners

Matthew William Street 13761 Fieldshire Terrace Carmel, IN 46074

Michael T Moss 155 Aviation Lane Export, PA 15632

Mildred L Haller 608 Center Ave Weston, WV 26452

Paul Allen Hornor Jr. 122 Center Court Bridgeport, WV 26330-6749

Peter K. Thrush 1168 Halleck Road Morgantown, WV 26508-2370

Rema H White PO Box 359 Jane Lew, WV 26378

Robert T & Cynthia M. Swiger PO Box 908 Jane Lew, WV 26378

Samuel L and Marissa Aman 141 Jackson Heights Jane Lew, WV 26378

Shayne P. Baldwin PO Box 872 Jane Lew, WV 26378 Michael L McLaughlin 2124 Right Freemans Creek Rd Weston, WV 26452

Mike Ross Inc PO Box 219 Coalton, WV 26257

Oscar Ray & Dinah Lynn Mills Box 5 Jane Lew, WV 26378

Paul Allman P.O. Box 18 Jane Lew, WV 26378

R L Roberts
2871 West Virginia HWY 5 W
Glenville, WV 26351-7727

Robert T Allman 290 Johnstown Road Lost Creek, WV 26385

Roger Justice 877 Plymouth Rd NE Atlanta, GA 30306

Samuel M. Aman & Linda F. Aman 6876 US Hwy 19N Jane Lew, WV 26378

Sidney Wallace Street 2863 Yajoa Place Hacienda Hieghts, CA 91745

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W^t/ Department of Environmental Protection

WW-6A3 (1-12)

1208S-8H

Page 1 Continued

Mineral Owners

Stephanie A. Snow-McKisic PO box 767
Jane Lew, WV 26378

Thom William Street 316 Morgan Circle North Lehigh Acres, FL 33936

Thomas Earl Thrush 2300 McFarlin Road Nolensville, TN 37135

Trina Noreene Smallwood 4444 River Forest Road Marianna, FL 32446

Walter Parke Thrush 263 Glen Abbey Lane Clarksburg, WV 26301

Wesley Craft Brashear, Jr. 12205 Creek Point Dr Frisco, TX 75035

William C White PO BOX 770 Jane Lew, WV 26378

William R. Stalnaker 160 Stalnaker Estates Glenville, WV 26351-7727 Suzanne Louise Street 174 Willamette Drive Bear, DE 19701

Thomas E and Terri E Hawkins 7865 US Highway 19 North Jane Lew, WV 26378-7931

Thomas H Wilson 1412 Western Ave Morgantown, WV 26505-2148

Vivian Dianne Evert 828 Hidden Lake Road Roberts, WI 54032

Waymon B Kincaid 3999 Georgetown Road Horner, WV 26372

Willard H and Judy McWhorter 2042 Elk City Rd. Jane Lew, WV 26378

William Edward Watson 800 Main Street Wellsburg, WV 26070

Zane Anthony Justice 2706 Algonquin Ave Ashland, KY 41102

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JUL 1 2 2019

WW-6A4 (1/12) Operator Well No. Nutter 1208 S-8H

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.

equirement: Notice shall be provided at leas objective to Mest Virginia Code § 22-6	Application Filed: 06/30/2019	permit application.
d pursuant to West Virginia Code § 22-6		
	1-16(b)	
CERTIFIED MAIL		
	STED	
d or hand delivery, give the surface owner no ontal well: <i>Provided</i> , That notice given purs on as of the date the notice was provided to the be waived in writing by the surface owner. ' facsimile number and electronic mail address	otice of its intent to enter upon the suant to subsection (a), section tenthe surface owner: <i>Provided, how</i> . The notice, if required, shall incluses of the operator and the operator.	ne surface owner's land for the purpose of n of this article satisfies the requirements never, That the notice requirements of this aude the name, address, telephone number,
Nutter		Broadwater
den Valley Road	Address: 132 Praise Lane	
w, WV 26378	Jane Lew, WV 2637	78
Parrison Grant Vest Milford WV 7.5'	UTM NAD 83 Northing: Public Road Access:	549833.6 4333930.8 SR 19 Nutter
hall Include: est Virginia Code § 22-6A-16(b), this notice er and electronic mail address of the opera contal drilling may be obtained from the Sec	ator and the operator's authorize cretary, at the WV Department of	d representative. Additional information f Environmental Protection headquarters,
by given by:	A d : ID (A)	
		Diane White
	Audress:	5260 Dupont Road
	Talanhana	Tarketsburg, 117 20101 Office of Oil and Gas
		304-420-1119 dwhite@hgenergyllc.com
dwhite@hgenergyllc.com Diane White	Email:	dwhite@hgenergyllc.com JUL 1 2 2019
304-863-3172	Facsimile:	304-863-3172
I S S V HI S S V II I I I I I I I I I I I I I I I	Va. Code § 22-6A-16(b), at least ten days product or hand delivery, give the surface owner not not a well: Provided, That notice given purs in as of the date the notice was provided to the waived in writing by the surface owner. If acsimile number and electronic mail address by provided to the SURFACE OWNE. Substituter Ser Valley Road W. WV 26378 By given: Set Virginia Code § 22-6A-16(b), notice is here in a land for the purpose of drilling a horizon was the west Virginia for the purpose of drilling a horizon was the west Milford WV 7.5' fiddle West Fork Creek The line lude: Set Virginia Code § 22-6A-16(b), this notice and electronic mail address of the operational drilling may be obtained from the Sectional drilling may be obtained from the Section of t	Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, do or hand delivery, give the surface owner notice of its intent to enter upon the next of the date the notice was provided to the surface owner: Provided, how be waived in writing by the surface owner. The notice, if required, shall include facsimile number and electronic mail address of the operator and the operator of the provided to the SURFACE OWNER(s): Name: William W. & Linda Address: 132 Praise Lane Address: 132 Praise Lane Jane Lew, WV 26378 The Valley Road Address: 132 Praise Lane Jane Lew, WV 26378 The Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned ver's land for the purpose of drilling a horizontal well on the tract of land as follows Virginia arrison West Virginia Public Road Access: Generally used farm name: West Milford WV 7.5° Generally used farm name: Mest Milford WV 7.5° Generally used farm name: WV 15304 (304-926-0450) or by visiting www.de www.de oby given by: HG Energy Appalachia, LLC Authorized Representative: Address: HG Energy Appalachia, LLC Authorized Representative: Address: Telephone:

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.

WW-6A5 (1/12)

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

		1 8 22 (1 16/2)		
Delivery met	hod pursuant to West Virginia Co	de § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of equired to be drilling of a l damages to th d) The notice of notice. Notice is here at the address	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section norizontal well; and (3) A proposed es surface affected by oil and gas opers required by this section shall be given by provided to the SURFACE OVER listed in the records of the sheriff a	surface owner whose land will his subsection shall include: (ten of this article to a surface of surface use and compensation rations to the extent the damagnen to the surface owner at the the surface owner at the the time of notice):	II be used fo (1) A copy owner whos n agreemen ges are comp	cation, an operator shall, by certified mail 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 sted in the records of the sheriff at the time. Broadwater
Jane	tiden Valley Road Lew, WV 26378	Address: 13	32 Praise Lane ane Lew, WV 263	378
Address: 382 F Jane Notice is here Pursuant to W	tiden Valley Road Lew, WV 26378 eby given:	Address: 13 Ja otice is hereby given that the un	32 Praise Lane ane Lew, WV 263 ndersigned \	well operator has developed a planned
Address: 382 F Jane Notice is here Pursuant to W	iden Valley Road Lew, WV 26378 eby given: /est Virginia Code § 22-6A-16(c), no	Address: 13 Ja otice is hereby given that the un bose of drilling a horizontal we	32 Praise Lane ane Lew, WV 263 andersigned vell on the tra Easting:	well operator has developed a planned ct of land as follows: 549833.6
Address: 382 h Jane Notice is here Pursuant to W pperation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), no the surface owner's land for the purp	Address: 13 Ja otice is hereby given that the un bose of drilling a horizontal we UTM NAD 83	ane Lew, WV 263 and Lew, WV 263 andersigned vall on the tra Easting: Northing:	well operator has developed a planned oct of land as follows: 549833.6 4333930.8
Address: 382 h Jane Notice is here Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purposes Virginia Harrison Grant	Address: 13 Ja otice is hereby given that the un bose of drilling a horizontal we UTM NAD 83 Public Road Acce	ane Lew, WV 263 and Lew, WV 263 andersigned vell on the tra Easting: Northing:	well operator has developed a planned ct of land as follows: 549833.6 4333930.8 SR 19
Address: 382 h Jane Notice is here Pursuant to W pperation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purposes West Virginia Harrison	Address: 13 Ja otice is hereby given that the un bose of drilling a horizontal we UTM NAD 83	ane Lew, WV 263 and Lew, WV 263 andersigned vell on the tra Easting: Northing:	well operator has developed a planned oct of land as follows: 549833.6 4333930.8
Address: 382 h Jane Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we surface affect information r neadquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpose West Virginia Harrison Grant West Milford WV 7.5' Middle West Fork Creek Shall Include: Vest Virginia Code § 22-6A-16(c), the down W. Va. Code § 22-6A-10(b) and (3) A proposed surface use a med by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	Address: 15 Ja Detice is hereby given that the uncose of drilling a horizontal we use of dril	and Easting: Northing: ess: arm name: copy of this and will be a containing an ensable und, at the WV	well operator has developed a planned ct of land as follows: 549833.6 4333930.8 SR 19
Address: 382 h Jane Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W to be provide norizontal we surface affect information r neadquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(c), not the surface owner's land for the purpose West Virginia Harrison Grant West Milford WV 7.5' Middle West Fork Creek Shall Include: /est Virginia Code § 22-6A-16(c), the dot W. Va. Code § 22-6A-10(b) foll; and (3) A proposed surface use a seed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx. T: HG Energy II Appalachia, LLC	Address: 15 Address: 15 Detice is hereby given that the uncose of drilling a horizontal we will be a surface of the compensation agreement of the extent the damages are compensation the Secretary, Charleston, WV 25304 (304) Address: 526	and Praise Lane and Lew, WV 263 and Will be upontaining an ensable und at the WV 4-926-0450) and Dupont Road	well operator has developed a planned act of land as follows: 549833.6 4333930.8 SR 19 Nutter code section; (2) The information required used in conjunction with the drilling of a foreign of the following of the compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and
Address: 382 h Jane Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we surface affect information r neadquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purpose West Virginia Harrison Grant West Milford WV 7.5' Middle West Fork Creek Shall Include: Vest Virginia Code § 22-6A-16(c), the down W. Va. Code § 22-6A-10(b) and (3) A proposed surface use a med by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	Address: 15 Address: 15 Detice is hereby given that the uncose of drilling a horizontal we will be a detailed and a surface owner whose larged and compensation agreement of extent the damages are compercially obtained from the Secretary, Charleston, WV 25304 (304) Address: 526	and Easting: Northing: ess: arm name: copy of this and will be a containing an ensable und, at the WV	well operator has developed a planned act of land as follows: 549833.6 4333930.8 SR 19 Nutter code section; (2) The information require used in conjunction with the drilling of a offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and

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 RECEIVED Office of Oil and Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

JUL 1 2 2019



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

June 24, 2019

Byrd E. White, III Secretary of Transportation

Jimmy Wriston, P. E. Deputy Secretary/ Acting 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 Nutter 1208 Pad, Harrison County S-8H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-1374 issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Harrison County Route 19/20 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. 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 October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Jany K. Clayton

Cc: Diane C. White

HG Energy II, LLC

CH, OM, D-6

File

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List of Frac Additives by Chemical Name and CAS

Nutter 1208 Well Pad (N-1H to N-5H, S-6H to S-10H)

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
Since Sand and Ground Sand	Mixture	1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
515 N.515 2000	1.0	25222.60.2
BIO CLEAR 2000	Mixture	25322-68-3 10222-01-2
	107.01.1	
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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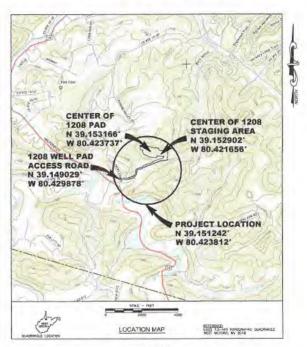
CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1208 WELL PAD



GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

CONSTRUCTION SEQUENCE

- 1. Prior to commencement of any earth disturbance activity including cleaning and grubbing, the registrant shall call West Virginia 811 by dialling 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, inparian 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, stockpiles.
- 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 downslope 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 delayed 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, Topsoiling, Trees and Shrubs After construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and 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.



PREPARED FOR

HG ENERGY II APPALACHIA, LLC

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

PREPARED BY

PENN ENVIRONMENTAL & REMEDIATION, INC.

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

Final Development - Gravel	Cut	_	Fill	-31
1208 Well Pad & 5 Staging Area	6,552	è	5.513	*
Access Road 1	3.595	3	5,564	
Total 6	5 1/19	7	0,767	- 0
Soil Adjustment for Aggrega	te Import			
Pad				1
Total Site Balance				2
Stripped Topsat (Limit of Dis	sturbance)	7		
Est, Swell Factor	(2)	(60)		
Est, Topsoil Stockofe Volum	e (Loose C	(Y)		- 3
	_		(C,Y.)	
Minimum Total Stockpile Car	grass earl grass earl ed on 5 inc gregate qui tive of act	hwor hes lent t	k quansties average de les based d uantities	pro_
Topsoil est, volume base Material balance and agreed may not be represente	grass earl ed on 5 inc gregate quitive of act contractor	hwor hes lent; all q pay	k quantities average de les based d uantities. volurres,	pm m est
Minimum Total Stockpile Car Notes. 1. Material balance for sat. 2. Topsol est, volume base. 3. Material balance and ege and may not be represented. 4. Estimates do not reflect.	grast earlied on 5 inc gregate qui tive of act contractor	hwor hes lent; all q pay	k quansties average de les based d uantities	pro_

Depth of 3/4" Crusher Run (Tons) 3,282 1,533

	Estimated Well Pad and Staging Area Limit of Distrubance (Acres
	Well Pad and Staging Area Peak Pre-Construction Elevation (F
	SHEET TITLE
THIL	E SHEET
SITE	E DEVELOPMENT PLANS
PAD	& STOCKPILE SECTIONS
ACC	CESS ROAD SECTIONS
COL	STOLICTION NOTES & DETAILS

N-1H N 39.153300 W 80.42 N-2H N 39.153340 W 80.42 N-3H N 39.153379 W 80.42
10.000
N_3H N 30 153370 W 80 40
N-5H N 39.153419 W 80.42
N-4H N 39.153459 W 80.42
S-7H N 39.153074 W 80.42
S-6H N 39.153114 W 80.42
S-8H N 39.153154 W 80.42
S-9H N 39.153193 W 80.42
S-10H N 39.153233 W 80.42

				LATITUDE		LONGITU			
1208	WELL	PAD	ACCESS	ROAD	ENTRANCE	N	39.149029	W	80.42
								_	_

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AF WITHI 2.16 4.1, 4.18
NUTTER LISA N	17-12-0445-0009-0000	105.50 AC.	
FELDT CAROL (LE) NUTTER LISA M	17-12-0445-0001-0000	87.78 AC.	
NUTTER LISA M	17-12-0445-0010-0000	66.87 AC.	
BRODWATER WILLIAM N II & LINDA L	17-12-0445-0031-0000	247.84 AC.	
TOTAL LIMIT	OF DISTURBANCE		22.4

RESTORATION PLAN

PROPERTY MAP

WEST VIRGINIA

SHT. NO.

2A-2D

3A-3B

4A-4C

54-5F

6A-6D

YOU DIG!

800

 STIKNICE LITELITY LINES ARE NOT SHOWN ON THE PLAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LICEATING, MAINTAINING, AND RIPE ADDIS AS RECEISARY TO BYSURE CONTINUE, SET

