

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, November 20, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

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

Permit approval for NEEL 1207 N-6H Re:

47-033-05968-00-00

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:

NEEL 1207 N-611 HG ENERGY II APPALACHIA

Farm Name:

Horizontal 6A

U.S. WELL NUMBER: 47-033-05968-00-00

New Drill Date Issued: 11/20/2019

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 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:	

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- 33	05968	Rev.
OPERATOR WELL	NO. Neel 1207	N-6H
Well Pad Name:	Neel 1207	

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

l) Well Operator: HG En	ergy II Appalachi	a, L 494519932	Harrison	Union	West Milford 7.5'
y well Operator. 110 III	11	Operator ID	County	District	Quadrangle
2) Operator's Well Number	r: Neel 1207 N-6	Well	Pad Name: Ne	el 1207	
3) Farm Name/Surface Ow	ner: HG Energy II App	alachia, LLC Public	Road Access: _	Hidden Valle	y Rd @ SR 19
4) Elevation, current groun	id: 1354'	Elevation, propo	sed post-constru	ction: 1344'	
5) Well Type (a) Gas		ττ	Inderground Sto	rage	
Other					·
(b)If Gas	Shallow X	Deep			. Sow
	Horizontal X				9/201201
6) Existing Pad: Yes or No	No No				
7) Proposed Target Format Marcellus at 7076'/7158'	tion(s), Depth(s), A and 82' in thickness	nticipated Thickners. Anticipated press	ess and Expected ure at 4314#.	i Pressure(s):	
8) Proposed Total Vertical	Depth: 7145'				
9) Formation at Total Vert		ellus			
10) Proposed Total Measu		10'			
11) Proposed Horizontal L	eg Length: 13,91	18'			
12) Approximate Fresh W	ater Strata Depths:		25', 630', 731'		
13) Method to Determine	Fresh Water Depth	s: Nearest offse	well data		
14) Approximate Saltwate	er Depths: 1782',	1848'			
15) Approximate Coal Sea	am Depths: 290, 3	340, 592, 1004' to	1009'		
16) Approximate Depth to					
17) Does Proposed well lo directly overlying or adjace	ocation contain coa cent to an active mi	l seams ne? Yes _		No X	
(a) If Yes, provide Mine	: Info: Name:				
	Depth:				
	Seam:				RECEIVED Office of Oil and Gas
	Owner:				OCT - 3 2019

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

PI NO. 47		
OPERATOR WELL	NO.	Neel 1207 N-6H
Well Pad Name:	Neel 1	207

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/Coal	20"	NEW	J-55	94	1100'	1100' /	40% excess, yield #1.20,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2200'	2200'	40% excess yield = 1,20,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	3000'	3000'	40% discuss yield Land ON Expens Take
Production	5 1/2"	NEW	P-110	23	21810'		20% excess yield = 1.19 tell yield = 1.2
Tubing						2.0.0	₩
Liners				7			

50W 11/19/2019

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/Coal	20"	24"	.438	2110	1200	Type 1, Class A	
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Load 40% excess. Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 80% excess, Tall 5% Excess La
Production	5 1/2"	8 1/2"	.415	16240 /	12500	Type 1/ClassA	
Tubing					12000	.,,-	
Liners							
				The state of the s		BEC	EIVED

Office of Oil and Gas

NOV 1 9 2019

WW-6B (10/14) API NO. 47-33 - 059 68 Rev.

OPERATOR WELL NO. Neel 1207 N-6H

Well Pad Name: Neel 1207

19	Describe i	proposed w	ell work.	including	the drilling	and pl	ugging	back of	any pilot hole:
		proposes "	O14 ** O4119					OMOLL OI (mill birot more

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7145 feet. Drill horizontal leg to estimated 13,918' lateral length, 21,810' 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. \checkmark

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): 28.278 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 12.715 acres
- 23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater/Cash - centralized every 3 joints to surface.
Freshwater/Cash - centralized every 3 joints to surface.
Freshwater/Cash - centralized every 10st, will also be numing ECP for isolating storage zone
freshwater - Cash String on every 10st, befare love there is no 100° from surface.
Freshwater - Cash - 1 paper centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 5 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 -NA, Casing to be drilled in wf Dual Rotary Rig.
Fresh Water/Coar - 15.6 pog PHE-1 + 3% busec CaCL. 40% Excess Yield = 1.20, CTS
Fresh Water/Coar - 15.6 pog PHE-1 + 3% busec CaCL. 40% Excess Yield = 1.20, CTS
Intermediate 1 - Lead: 15.4 pog PHE-1 + 2.5% busec CaCL, 40% Excess Yield = 1.20, CTS
Intermediate 2 - Lead: 15.4 pog PHE-1 + 2.5% busec CaCL, 40% Excess Yield = 1.20, CTS
Intermediate 2 - Lead: 15.4 pog PHE-1 + 2.5% busec CaCL, 40% Excess, Tait 15.9 pog PHE-1 + 2.5% busec CaCL, 40% Excess, Tait

25) Proposed borehole conditioning procedures:

Conductor - Engage the noise operated in the Constitution of the control of the Constitution of the Consti

Office of Oil and Gas

OCT - 3 2019

WV Department of

*Note: Attach additional sheets as needed.



1207 N-6H

4703305968

Marcellus Shale Horizontal Harrison County, WV

										Harrison Co	ounty, WV					
							1207 N	1-6H SH	L	14	218635.24N 18098	09.05E				
und El	eva	tion		1343			1207 N-6H LP 14219486.9N 1811208.64				8.64E					
Azm 340.538°			1207 N-6H BHL				232604.74N 18065	73.28E								
LLBORE D	IAGE	RAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS				
	7,0															
		×	30"	30" 157.5# LS	Conductor	0	120 🗸	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0,5" wa thickness				
					Fresh Water	0	135, 637, 731		15.6 ppg PNE-1 + 3%	4:5:millions	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w				
	W	×	24"	20" 94# J-55	Coal	1004	1009	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with	thickness				
		×	1.000	78.70	Surface / FW	D	1100 V		Yield=1.20 / CTS		Fresh Water prior to pumping cement.	Burst=2110 psi				
									Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting					
10	- 83	010	0.55	13-3/8" 68#	Little/Big Lime	1552 / 1594	1564 / 1644	AIR / KCL	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.480				
	10	l x	X	X	X	X	17.5"	J-55 BTC	Injun / Gantz (Storage)	1652 / 1982	1762 / 2052	Salt Polymer	ppg PNE-1 + 2.5% bwoc	"will also be running ACP for isolating	minimum of one hole	wall thickness Burst=3450 psi
Ш	- 10				Intermediate 1	0	2200√		CaCl zero% Excess. CTS	storage zone*	volume prior to pumping cement.	100				
k		X			Fifty / Thirty Foot	2091 / 2182	2091 / 2182 2151 / 2192	Lead: 15.4 ppg PNE-1 +		Once casing is at setting						
		×		ALCOHOL:	Gordon Stray / Gordon	2218 / 2278	2278 / 2465	AIR / KCL	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0.39				
x x	×		×	×	x	12.25"	9-5/8" 40# J-55 BTC	5th Sand	2525	2537	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	condition mud at TD. Circulate a minimum of one	wall thickness	
							0-00 010	Bayard / Warren	2591 / 2891	2601 / 2931	Polymer	CaC	surface	hole volume prior to	Burst=3950 psi	
	198				Intermediate 2	0	3000 🗸		zero% Excess. CTS	100	pumping cement.					
×	×				Speechley	3211	3231			Don't sales a service						
	90		8.5" Vertical		Balltown	3438	3448	9.0ppg		Run 1 spiral centralizer every 5 joints from the						
			6.5 Vertical		Benson	4529	4544	SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to surface.						
					Rhinestreet	6390	6646		bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk		Once on bottom/TD with					
					Cashagua	6646	6746		FP13L + 0.3% bwoc MPA170		casing, circulate at max	David of the Control				
重	V	0		5-1/2"	Middlesex	6746	6778		Tail: 14.8 ppg PNE-1 +		allowable pump rate for at least 2x bottoms up, or until	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed				
ES S	X	fice	8.5" Curve	23# P-110 HP	West River	6778	6849	11.5ppg- 12.5ppg	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%		returns and pump					
WV Department of Vronmental Protect	T	RECEIVED Office of Oil and	3.5 Guive	CDC HTQ	Burkett	6849	6859	SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	pressures indicate the hole is clean. Circulate a					
part	CHES.	28		100	Tully Limestone	6859	6967		bwoc MPA170 20% Excess	every 3 joints from the 1st 5.5" long joint to the	minimum of one hole volume prior to pumping	due to hale canditions				
Pro	8 2019	BB			Hamilton	6967	7076		Lead Yield=1.19	top of the curve.	cement.					
nt o	19	Gas			Marcellus	7076	7158		Tail Yield=1.94 CTS							
fion		.03	8.5" Lateral		TMD / TVD (Production)	21810	7145 √	11.5ppg- 12.5ppg								
×	X		2 7 7		Onondaga	7158		SOBM								
	100		X	X	λ	X		X	λ	X	Х.					
		LP @ 71	45' TVD / 7892' MD			8,5" Hole - Cemente 5-1/2" 23# P-110 H				+/-1391	8' ft Lateral	TD @ +/-7145' TVD V +/-21810' MD				
X		7	X	X	X	X		X	X	X	X	X=centralizers				

Neel 1207 Well Pad (N-1H to N-6H, S-7H to S-12H) <u>Cement Additives</u>

Material Name	Material Type	Material Description	CAS#		
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide Magnesium oxide	1-5	1305-78-8 1309-48-4
ME 1	Deathard Comment	strength properties.	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
emium NE-1	Portland Cement				
		Commonly called gel, it is	Transfer to the same of the sa	lar.	less womber
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	ar January and Land Company		1,000.00
entonite	Extender	water.			
intonite	extender				
		A powdered, flaked or	Party Party Control of Control	Tes.	1
		pelletized material used	Ingradient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
cium Chloride	Accelerator	of strength development			
cium Caloniae	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		300 00000
		a lost circulation material.			
lo Flake	Lost Circulation				

		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in cementing operations. It	Ingredient name	1%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air	Theory prospilite	00 100	120,100
		entrapment and			
		preventing foaming			
		tendencies of latex			
		systems.			
-13L	Foam Preventer	24000			
			AND THE PROPERTY OF THE PARTY O	12.	15.5
		Used to retard cement	Ingredient name	%	CAS number
anulated Sugar	Retarder	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	Calcium magnesium oxide	90 - 100	37247-91-9
		temperatures		1004-100	- (5/19/20/52)
-1					
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient		
04.170	Can bellambi-	rheclogy, and gas	A TO SERVICE OF THE S		
PA-170	Gas Migration	migration.			
		A Company of the Comp			
		A synthetic pozzolan, (orimarily Silicon Dioxide)			
		(primarily Sillcon Dioxide).			
		(primarily Silicon Dioxide). When blended with	/ <u></u>		
		(primarily Silicon Dioxide), When blended with cement, Pozzolan can be	Ingredient name	7%	CAS number
		(primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		(primarily Silicon Dioxide), When blended with cement, Pozzolan can be			14808-60-7
		(primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement	Crystalline silica: Quartz (SiO2)	5 - 10	
		(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	14808-60-7 1PECEVED Office of Oil and Ga
		(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	14808-60-7
z (Fly Ash)	Base	(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	14808-60-7 1PRECEIVED Office of Oil and Ga
z (Fly Ash)	Base	(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.	Crystalline silica: Quartz (SiO2)	5 - 10 1 - 5	14808-80-7 17REGEVED Office of Oil and Ga AUG 2 2 2019
z (Fly Ash)	Base	(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)	5 - 10 1 - 5	14808-80-7 17REGEVED Office of Oil and Ga AUG 2 2 2019
z (Fly Ash)	Base	(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 1 - 5	14808-80-7 17REGEVED Office of Oil and Ga AUG 2 2 2019
z (Fly Ash)	Base	(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) Celcium oxide	5 - 10 1 - 5	14808-80-7 17REGEVED Office of Oil and Ga AUG 2 2 2019
z (Fly Ash)	Hase	(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) Celcium oxide Ingredient name	5 - 10 1 - 5	AUG 2 2 2019 WV Department of Environmental Protections
		(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) Celcium oxide Ingredient name	5 - 10 1 - 5	AUG 2 2 2019 WV Department of Environmental Protections
	Base Retarder	(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) Celcium oxide Ingredient name	5 - 10 1 - 5	AUG 2 2 2019 WV Department of Environmental Protections
		(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	5 - 10 1 - 5	14808-80-7 17REGETVED Office of Oil and Ga AUG 2 2 2019 WV Department of Environmental Protectors of Sanumber Trade secret.
		(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	5 - 10 1 - 5 % 40 - 50	14808-80-7 17REGEVED Office of Oil and Ga AUG 2 2 2019 WV Department of Environmental Protectors number Trade secret. CAS number
		(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-Butoxyethanoi	5 - 10 1 - 5	14808-60-7 17REGENVED Office of Oil and Ga AUG 2 2 2019 WV Department of Environmental Protectors of Environmenta
		(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	14808-60-7 17PEGENVED Office of Oil and Ga AUG 2 2 2019 WV Department of Environmental Protectors and Secret. CAS number 111-76-2 Trade secret. 110615-47-9
oz (Fly Ash)		(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	14808-60-7 17PESENTED Office of Oil and Ga AUG 2 2 2019 WV Department of Environmental Protectors number Trade secret. CAS number 111-76-2 Trade secret.

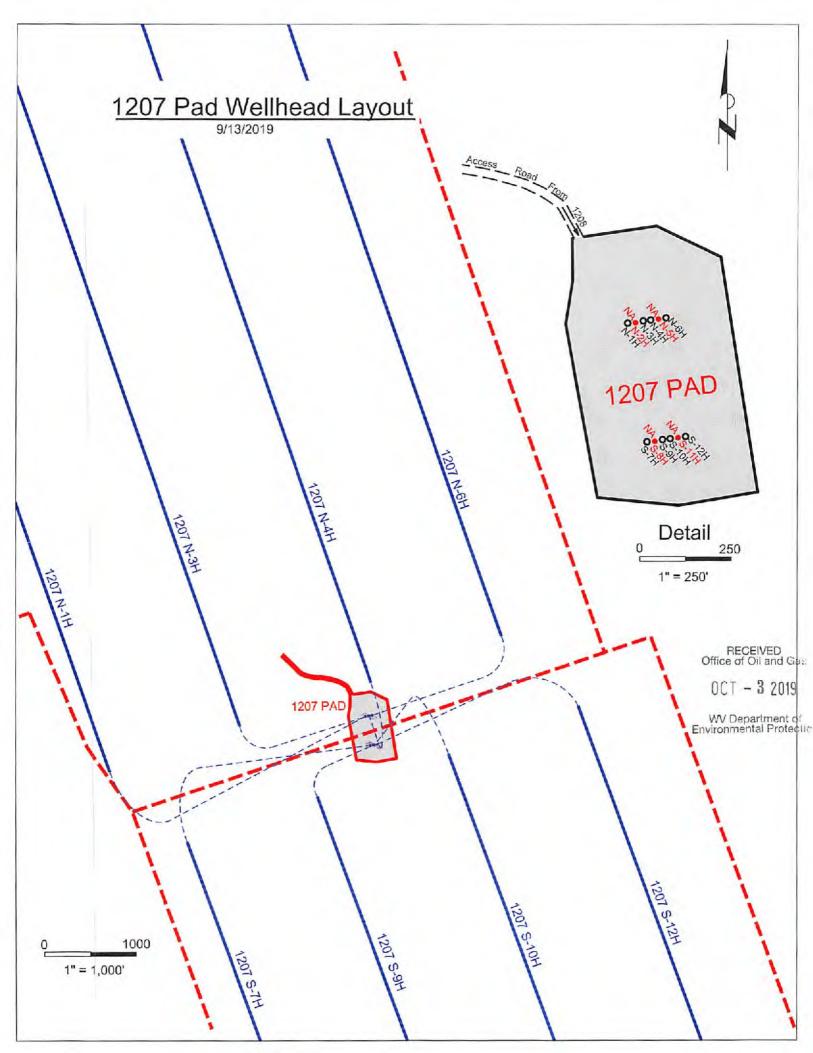
List of Frac Additives by Chemical Name and CAS

Neel 1207 Well Pad (N-1H to N-6H, S-7H to S-12H)

Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
	1	64742-47-8
Pro Hib II	Mixture	68412-54-4
	- Innear	68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
		11000 00 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	
		25222 50 2
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
TROBREAK	THIN COLO	107-21-1
Sulfamic Acid	5220 14 6	
Sunamic 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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WW-9 (4/16)

API Number 47 -	
Operator's Well	No. Neel 1207 N-6H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

	FLUIDa/ CUTTINGS	DISPOSAL & RECLA	WATION PLAN	
Operator Name_HG Energy II Appa	alachia, LLC		OP Code 494501907	
Watershed (HUC 10) Middle We	est Fork Creek	Quadrangle	West Milford 7.5'	
Do you anticipate using more that Will a pit be used? Yes		complete the proposed	well work? Yes 🗸	No
If so, please describe an	nticipated pit waste: NA	4		
Will a synthetic liner be	e used in the pit? Yes	No ✓ If	so, what ml.?	
Proposed Disposal Met	hod For Treated Pit Wast	tes:		Spa
Land	Application			52 W 8/14/2019
	rground Injection (UIC			
	e (at API Number TBD - A		- A L- 12	
	ite Disposal (Supply for (Explain	m WW-9 for disposal lo	cation)	
Will closed loop system be used	? If so, describe: Yes outli	ngs and fluids will be collected in a clos	ed loop system, re-used or hauled to an	approved disposal site or landfill.
Drilling medium anticipated for				
-If oil based, what type	? Synthetic, petroleum, e	etc. Synthetic		
Additives to be used in drilling r	medium? Water, Soap, KC	CI, Barite, Base Oil, Wetting	Agents	
Drill cuttings disposal method?	Leave in pit, landfill, ren	noved offsite, etc. Appr	oved Landfill	
-If left in pit and plan to	solidify what medium w	vill be used? (cement, li	me, sawdust)_NA	
-Landfill or offsite nam	e/permit number? See A	ttached		
Permittee shall provide written n West Virginia solid waste facilit where it was properly disposed.				
on August 1, 2005, by the Office provisions of the permit are enfolaw or regulation can lead to enfo	e of Oil and Gas of the Worceable by law. Violationcement action. of law that I have persuments thereto and that, lieve that the information	est Virginia Department ions of any term or con- sonally examined and a based on my inquiry on is true, accurate, and	of Environmental Protect dition of the general perm m familiar with the infor of those individuals im- l complete. I am aware	nit and/or other applicable rmation submitted on this mediately responsible for
Company Official Signature	Diane White	υ		BEOLIVED
Company Official (Typed Name	e)_Diane White			RECEIVED Office of Oil and Gas
Company Official Title	Agent			AUG 2 2 2019
Subscribed and sworn before me	this 16th day	of July	, 20 19	WV Department of Environmental Protection
My commission expires	Sle 11/2/2021		Notary Public	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINI MARK J SCHALL H G Energy LL C PO Box 5519, Vienna, WV 28105 LL Complision Extract November 2, 2021

Proposed Revegetation Trea	tment: Acres Disturbed 28.6	02 Prevegetation pH	
Lime	3 Tons/acre or to correct to		
Fertilizer type 10			
Fertilizer amount	500	lbs/acre	
Mulch_ Hay	2 _{To}	ons/acre	
		Seed Mixtures	
To	emporary	Perma	nent
Seed Type Tall Fescue	lbs/acre	Seed Type Tall Fescue	lbs/acre 40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pi rovided). If water from the creage, of the land applicat	it and proposed area for land ap pit will be land applied, includ	g and completion process pplication (unless engineered plans include dimensions (L x W x D) of the pit, and	
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved the provided in the land approved by:	it and proposed area for land applit will be land applied, includion area. Ived 7.5' topographic sheet.	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	dimensions (L x W), and area
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved the land approved by: Plan Approved by: Pre-seed	it and proposed area for land applit will be land applied, includion area. Ived 7.5' topographic sheet. / D Www./ /mulch as soon as	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	dimensions (L x W), and area
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved the land approved by: Plan Approved by: Pre-seed	it and proposed area for land applit will be land applied, includion area. Ived 7.5' topographic sheet. / D Www./ /mulch as soon as	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	dimensions (L x W), and area
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved by: Plan Approved by: Comments: Pre-seed: Upgrade E&S if r	it and proposed area for land applit will be land applied, includion area. Ived 7.5' topographic sheet. / Www./ /mulch as soon as needed per WV DE	reasonably possible per	regulation.
Attach: Maps(s) of road, location, piperovided). If water from the acreage, of the land applicate Photocopied section of involved the land approved by: Plan Approved by: Pre-seed	it and proposed area for land applit will be land applied, includion area. Ived 7.5' topographic sheet. / Www./ /mulch as soon as needed per WV DE	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	dimensions (L x W), and area

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

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

Environmental Coordination Services & Recycling (ECS&R) 8297 US Highway 18 Cochranton, PA 16314 814-425-7773

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08488 11 County Road 78 Amsterdam, OH 48903 740-548-4889

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

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

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 901071, 255 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PADOS087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100563 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

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

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooks County Landfill Permit # SWF-103-87 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 904-748-0014 RECEIVED
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WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinaville, WV 26035 904-455-3800

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

Energy Solutions Services, Inc. Permit # R-79006-L24 1560 Bear Creek Road Oak Ridge, TN 97830

Northern A-1 Environnemental Services Permit ID MID020906814 8947 US 131 North, PO Box 1030 Kalkaska, MI 49646 281-258-9961

Water Haul off Companies:

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

Nabors Completion & Production Services Go. PO Box 976682 Pallas, TX 75597-5682

Select Energy Services, LLC FO Box 208997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Mesontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Cigirsville, OH 48950

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

Disposal Locations:

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20758 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 Olifield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, inc. 1980 Rte. 286 Hwy. E, Suite 208 Indiana, 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 15682

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

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Nichlos 1-A (SWIW #18) Permit # 8862 800 Charrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-786-6495

4703305968

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin TX 78708 Permit # 54-081-2-7178 740-575-4484 612-478-6545

Adams #2 (Buckeye Brîne, LLC) Permit #24-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 612-478-6545

Mozena #1 Well (SWIW # 18) Permit # 34-157-2-5511-00-00 6867 E. State Street Newcomerstown, OH 48832 740-763-3366

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 800 Cherrington Pkwy, Sulte 200 Corappolis, PA 15108 412-829-7276

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

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

OH UIC #1. Bu keya UIC Barnesville 1 & 2 CNX Gas Com. Jany, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-823-6668

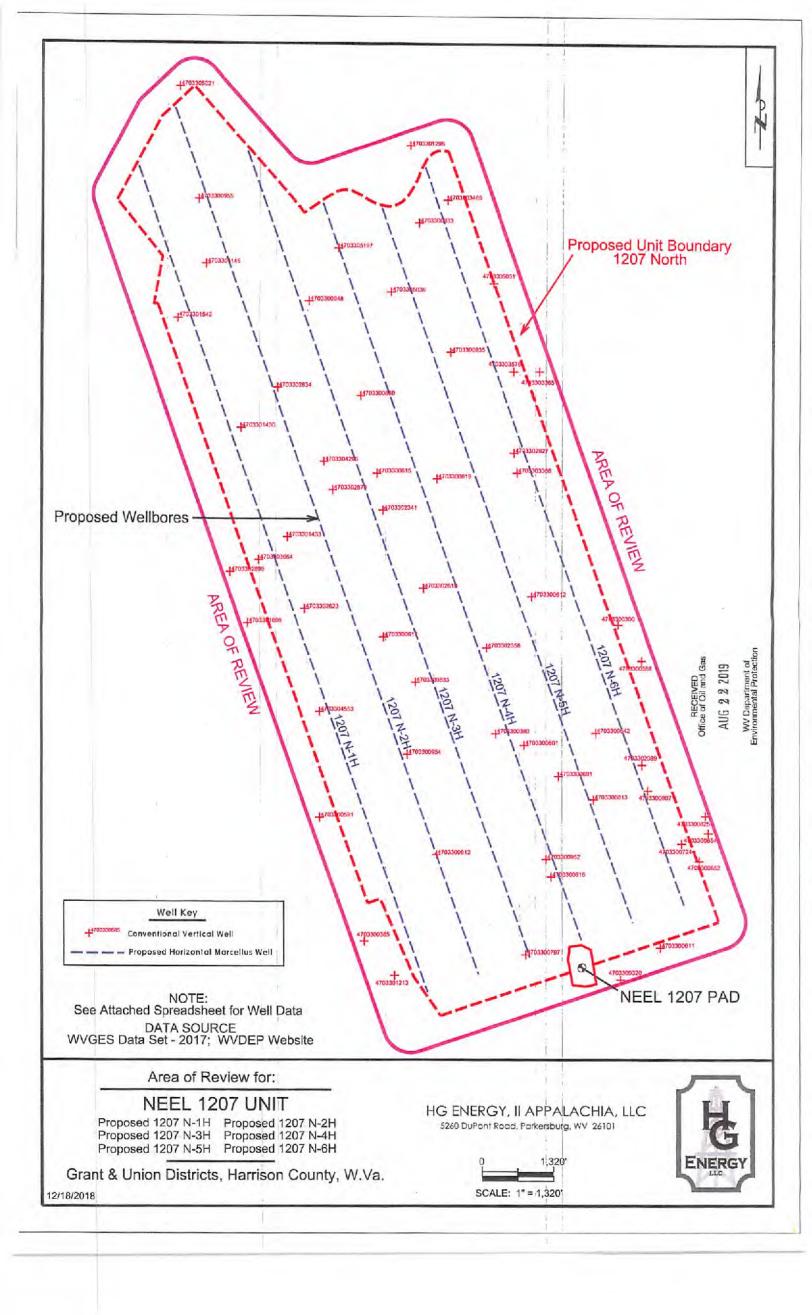
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 804-828-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4197-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

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EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

Onice of Oil and Ga

NUTTER 1207 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H & N-6H

СТ	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300300	HARRISON	C H Gaston 2 CW136	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2050	PLUGGED	39.169238	-80,399969
2	4703300320	HARRISON	Dora B McWhorter	Dominion Energy Transmission Inc.	Gordon	Storage	2039	PLUGGED	39.151229	-80.399968
3	4703300380	HARRISON	C H Gaston	Dominion Energy Transmission Inc.	Gordon (undiff)	Storage	2094	ACTIVE	39.16371	-80.407981
4	4703300385	HARRISON	Gusman	UNKNOWN	Hampshire Grp	Storage	2337	PLUGGED	39.153261	-80.416667
5	4703300588	HARRISON	Petitto Brothers Inc	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4461	ACTIVE	39.167359	-80.398441
6	4703300591	HARRISON	William W Brodwater III	Dominion Energy Transmission Inc.	Benson	Gas	4488	ACTIVE	39.159553	-80.419511
7	4703300601	HARRISON	James L/Mary A Sellers	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4300	ACTIVE	39.16313	-80.406118
8	4703300611	HARRISON	Willard B/B Westfall	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4430	ACTIVE	39.152826	-80.397359
9	4703300612	HARRISON	WV Department of Nat Res	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4397	ACTIVE	39.170689	-80.405559
10	4703300615	HARRISON	Hiram Burnside	Dominion Energy Transmission Inc.	Benson	Gas	4295	ACTIVE	39.17693	-80.415622
11	4703300617	HARRISON	Linda J Maxwell Trust	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4440	ACTIVE	39.168657	-80.415249
12	4703300619	HARRISON	Carl Smith 1	Antero Resources Corporation	Benson	Gas	4282	ACTIVE	39.176639	-80.411709
13	4703300642	HARRISON	Charles H Gaston	Dominion Energy Transmission Inc.	UNKNOWN	NA	12.5	PLUGGED	39.16371	-80.401459
14	4703300652	HARRISON	R Bartlett CW628	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2140	PLUGGED	39.157187	-80.394798
15	4703300691	HARRISON	C H Gaston CW126	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2074	PLUGGED	39.161574	-80.403918
16	4703300724	HARRISON	A C Thrash CW235	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1910	PLUGGED	39.158092	-80,395928
17	4703300797	HARRISON	A J Smith CW121	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	2200	ACTIVE	39.152535	-80.406118
18	4703300807	HARRISON	Mae Gaston CW127	Dominion Energy Transmission Inc.	Greenland Gap Fm	Storage	2056	ACTIVE	39.160808	-80.398105
19	4703300812	HARRISON	Linda Maxwell Trust	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4539	ACTIVE	39.157615	-80.411895
20	4703300813	HARRISON	Mae Gaston CW125	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2125	ACTIVE	39.160373	-80.401646
21	4703300816	HARRISON	Mae Gaston CW124	Dominion Energy Transmission Inc.	Fifty-foot	Storage	2150	ACTIVE	39.156454	-80.40444
22	4703300825	HARRISON	H T Edwards CW236	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1881	ACTIVE	39.159502	-80.394379
23	4703300833	HARRISON	Cnsrvtn Com CW132	Dominion Energy Transmission Inc.	Thirty-foot	Storage	2002	ACTIVE	39.166323	-80.413199
24	4703300835	HARRISON	Vance Ward	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4521	ACTIVE	39.183026	-80.410777
25	4703300854	HARRISON	Rhonda Koutsobabis	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4410	ACTIVE	39.158631	-80.394192
26	4703300869	HARRISON	James G McWhorter	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4341	ACTIVE	39.180849	-80.416666
27	4703300933	HARRISON	Hiram Munday 3	EQT Production Co.	Benson	Gas	4465	ACTIVE	39.189588	-80.41283
28	4703300948	HARRISON	M S Ward	EQT Production Co.	Benson	Gas	4475	ACTIVE	39.185637	-80.42002
29	4703300952	HARRISON	Joseph D/Marva Shepherd	Dominion Energy Transmission Inc.	Benson	Gas	4595	ACTIVE	39.157348	-80.404757
30	4703300954	HARRISON	Linda J Maxwell Revocable Trust	Dominion Energy Transmission Inc.	Benson	Gas	4473	ACTIVE	39.162695	-80.413758
31	4703300955	HARRISON	Zina M Davis	Dominion Energy Transmission Inc.	Benson	Dry w/ Gas Show	4445	PLUGGED	39.190792	-80.427201
32	4703301213	HARRISON	J B Gusman	Dominion Energy Transmission Inc.	Benson	Oil and Gas	4560	ACTIVE	39.151519	-80.414689
33	4703301298	HARRISON	W E Wease	Alliance Petroleum Corporation	Greenland Gap Fm	Gas	4394	ACTIVE	39.193487	-80.413389
34	4703301430	HARRISON	H Burnside	Dominion Energy Transmission Inc.	Hampshire Grp	Storage	2232	ACTIVE	39.179252	-80.424493

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR: NUTTER 1207 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H & N-6H

СТ	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
35	4703301433	HARRISON	James Maloney	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4648	ACTIVE	39.173737	-80,421512
36	4703301542	HARRISON	Stephen Hinkle	Ross & Wharton Gas Co.	Greenland Gap Fm	Gas	2799	ACTIVE	39.184786	-80.428592
37	4703301698	HARRISON	L Maxwell	Dominion Energy Transmission Inc.	Benson	Gas	4516	ACTIVE	39.169414	-80.424118
38	4703302089	HARRISON	Jeffrey O'Field	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4636	ACTIVE	39.162114	-80,398478
39	4703302341	HARRISON	WV Conservation CW-140	Dominion Energy Transmission Inc.	Thirty-foot	Observation	1768	ACTIVE	39.175043	-80,415248
40	4703302358	HARRISON	R S Hershey CW135	Dominion Energy Transmission Inc.	Thirty-foot	Observation	2000	ACTIVE	39.168076	-80.40854
41	4703302619	HARRISON	WV Con Com CW141	Dominion Energy Transmission Inc.	Gantz	Storage	1820	PLUGGED	39.171124	-80.41264
42	4703302623	HARRISON	R H Martin CW-133	Dominion Energy Transmission Inc.	Thirty-foot	Storage	1940	ACTIVE	39.170108	-80.420393
43	4703302834	HARRISON	McWhorter CW144	Dominion Energy Transmission Inc.	Fifty-foot	Storage	1797	ACTIVE	39.181255	-80.422103
44	4703302879	HARRISON	Burnside	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas w/ Oil Show	3041	PLUGGED	39.176085	-80.41853
45	4703302899	HARRISON	K M Patton/R Reed 1	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	3011	PLUGGED	39.171995	-80.425239
46	4703302927	HARRISON	Carl Smith (CW-143)	Dominion Energy Transmission Inc.	UNKNOWN	NA	n-n-1	PLUGGED	39.177945	-80.406677
47	4703303064	HARRISON	J Chevront (CW-154)	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	2933	PLUGGED	39.172605	-80.423373
48	4703303365	HARRISON	Carl V Smith Jr 4	Antero Resources Corporation	Benson	Gas	4575	ACTIVE	39.182031	-80.404998
49	4703303366	HARRISON	Carl V Smith Jr 5	Antero Resources Corporation	Benson	Gas	4605	ACTIVE	39.17693	-80.406491
50	4703303465	HARRISON	Rodney Combs	Dominion Energy Transmission Inc.	Hampshire Grp	Storage	2002	ACTIVE	39.190718	-80.410963
51	4703303576	HARRISON	Carl Smith (CW-151)	Dominion Energy Transmission Inc.	UNKNOWN	NA	3308	PLUGGED	39.182031	-80,406675
52	4703304145	HARRISON	Joseph H Workman 1	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4360	ACTIVE	39.187542	-80.426729
53	4703304296	HARRISON	Hiram Burnside	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	2942	PLUGGED	39.177535	-80.419089
54	4703304553	HARRISON	Linda J Maxwell	Dominion Energy Transmission Inc.	Misc Sands-BNSN/BRLR	Gas	4638	ACTIVE	39,164873	-80.419461
55	4703305021	HARRISON	Buffalo Lake Dev LLC	Alliance Petroleum Corporation	Greenland Gap Fm	Gas	4520	ACTIVE	39.196533	-80.428408
56	4703305031	HARRISON	Robert M Lewis	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4550	ACTIVE	39.186527	-80.407981
57	4703305036	HARRISON	Ward, Evelyn Marie	Dominion Energy Transmission Inc.	Benson	Gas	4460	ACTIVE	39.186108	-80.414657
58	4703305197	HARRISON	Evelyn Marie Ward	Dominion Energy Transmission Inc.	Huntersville Chert	Gas	6986	ACTIVE	39.188333	-80.418094

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE



January 7, 2019

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

RE:

Area of Review - Neel 1207 Well Pad (N-1H to N-6H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 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 7200' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 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 (Neel 1207 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

Diane White

Enclosure

Office of Oil and Gas

AUG 2 2 2019

Environmental Protection



January 7, 2019

Antero Resources 535 White Oaks Blvd Bridgeport, WV 26330

RE:

Area of Review - Neel 1207 Well Pad (N-1H to N-6H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 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.

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HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 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 (Neel 1207 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

Diane White

Enclosure

Office of Oil and Gas

AUG 2 2 2019

WV Department of Environmental Protection



January 7, 2019

EQT Production Company 115 Professional Place Bridgeport, WV 26330

RE:

Area of Review - Neel 1207 Well Pad (N-1H to N-6H)

Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 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 7200° TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Neel 1207 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 (Neel 1207 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

Diane White

Enclosure



January 7, 2019

Alliance Petroleum Company 214 Warner Street Marietta, OH 45750

RE:

Area of Review - Neel 1207 Well Pad (N-1H to N-6H) Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Neel 1207 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 7200' TVD) and existing conventional natural gas wells.

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Diane White

Enclosure

Office of Oil and Gas

AUG 22 2019

WV Department of Environmental Protection



January 7, 2019

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

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Enclosure

Office of Oil and Gas

AUG 2 2 2019

WW Department of Environmental Protection

HG Energy, LLC

Certified Mail Receipt Neel 1207 N-1H Area of Review - Notice to Well Owners

	U.S. Postal Service™
	CEDTIFIED MANGEMENT
ř	Domestic Mail Only
JECE	For delivery information, visit our website at workusps com [®]
1.940	To delivery information, visit our website at weavusps.com
H	Cartified Mail Fee
-	188.45
-	Extra Services & Fees (check box, add in a suppose)
	Return Receipt (electronic) s AN 1 Poetinate
	Adult Signature Required \$ Here
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	Total Postage and Fees
7018	Sont 70 ALL SONT TO ALL AOR
	SHEET AND NO. OF POBERNO.
1-	214 Warner Street
	Marietta DH 45750
	PS Form 3800, April 2015 PSN 7530-02-003-5047 See Reverse for Instructions
	U.S. Postal Service™
	CERTIFIED WALL
2	CERTIFIED MAIL® RECEIPT Domestic Mail Only
37	For delivery information
	For delivery information, visit our website at www.usps.com ^o .
18	Coglified Mail Fee
7	3 45
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101	Extra Services & Fees (check box, add fee as appears) Return Receipt (hardcopy) Return Receipt (electronic)
1000	Extra Services & Fees (check box, add fee as application Receipt (hardcopy) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Stonature Receipt
0 0001, 1980 3729	□ Adult Signature Restricted Delivery s 1 AM 1 U 2019
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7018 0680 0001	Adult Signature Restricted Delivery \$ AM 1 U 2019
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0890	Adult Signature Restricted Delivery \$ AN 1 0 2019

Office of Oil and Gao

AUG 2 2 2019

WV Department of Environmental Protection

HG Energy, LLC

Certified Mail Receipt Neel 1207 N-1H Area of Review - Notice to Well Owners

3712	U.S. Postal Service [™] CERTIFIED MAIL [®] RECEIPT Domestic Mail Only	3705
	OFFICIAERS B	100
1980	Certified Mail Fee S S S S S S S S S S S S S S S S S S	1,980
0007	Return Receipt (hardcopy) \$ AN Postmante Return Receipt (electronic) \$ AN Postmante Certified Mail Recritical Delivery \$ An Postmante Adult Signature Required \$ Adult Signature Restricted Delivery \$	1000
0680	Postage s Total Postage and Foes [207 NIH AOR	0640
7018	Sent To Antero Resources Street and Apt. No., or PO Box No. 535 White Daks Blvd City, State, 219-40 Bridge port WV 26330 Bridge port WV 26330 Bridge port Sent State Sent Reverse for Instructions	7018

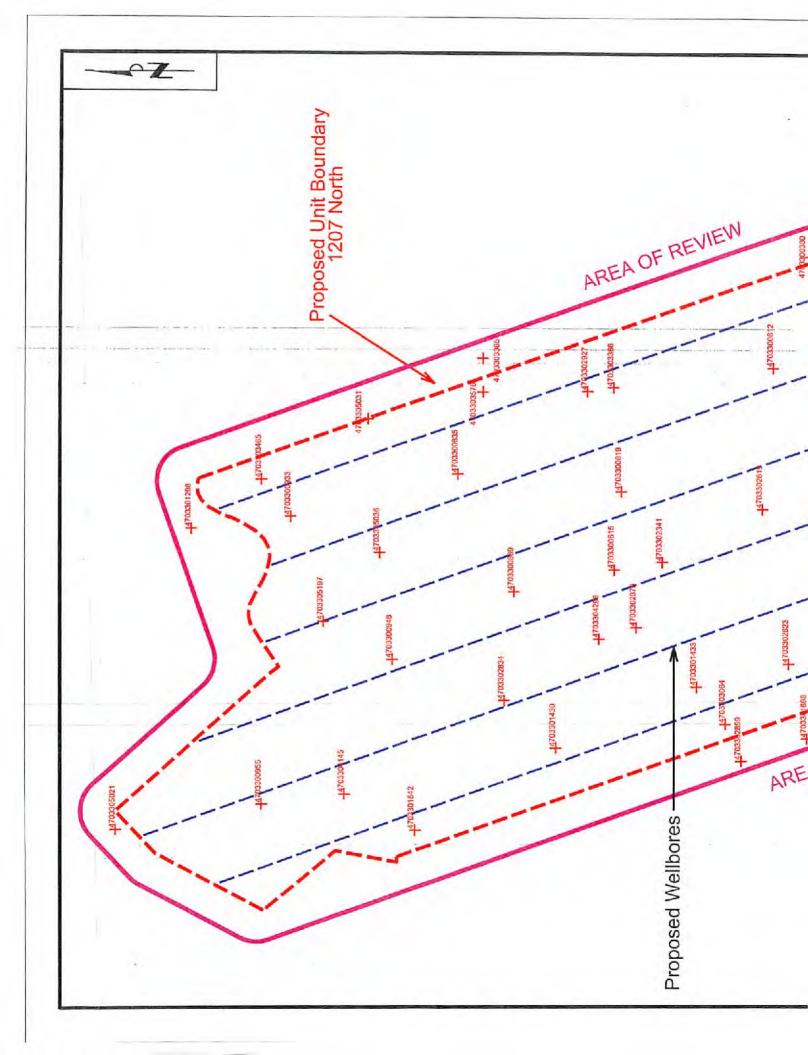
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0680 0001 1980 3705	Extra Services & Fees (check box, add tenes a growth of the future Receipt (selectronist) Return Receipt (selectronist) Certified Mail Restricted Delivery \$ Adult Signature Required \$ Adult Signature Restricted Delivery \$	Postmark AN 10 2019
7018 OF	Sent To Domionion Energy. Sireer and Apr. No., or PO Box No. 2391 Day 1 550n R Clarks burg WV	un moule



Office of Oil and Gas

AUG 2 2 2019

WV Department of Environmental Protection





Area of Review for:

NEEL 1207 UNIT

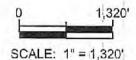
Proposed 1207 N-1H Proposed 1207 N-2H Proposed 1207 N-3H Proposed 1207 N-4H Proposed 1207 N-6H Proposed 1207 N-6H

Grant & Union Districts, Harrison County, W.Va.

12/18/2018

HG ENERGY, II APPALACHIA, LLC

5260 DuPont Road, Parkersburg, WV 26101





HG Energy II Appalachia, LLC

Site Safety Plan

Neel 1207 Well Pad 104 Hidden Valley Rd Jane Lew Harrison County, WV 26378

December 2018: Version 1

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

HG Energy II Appalachia, LLC

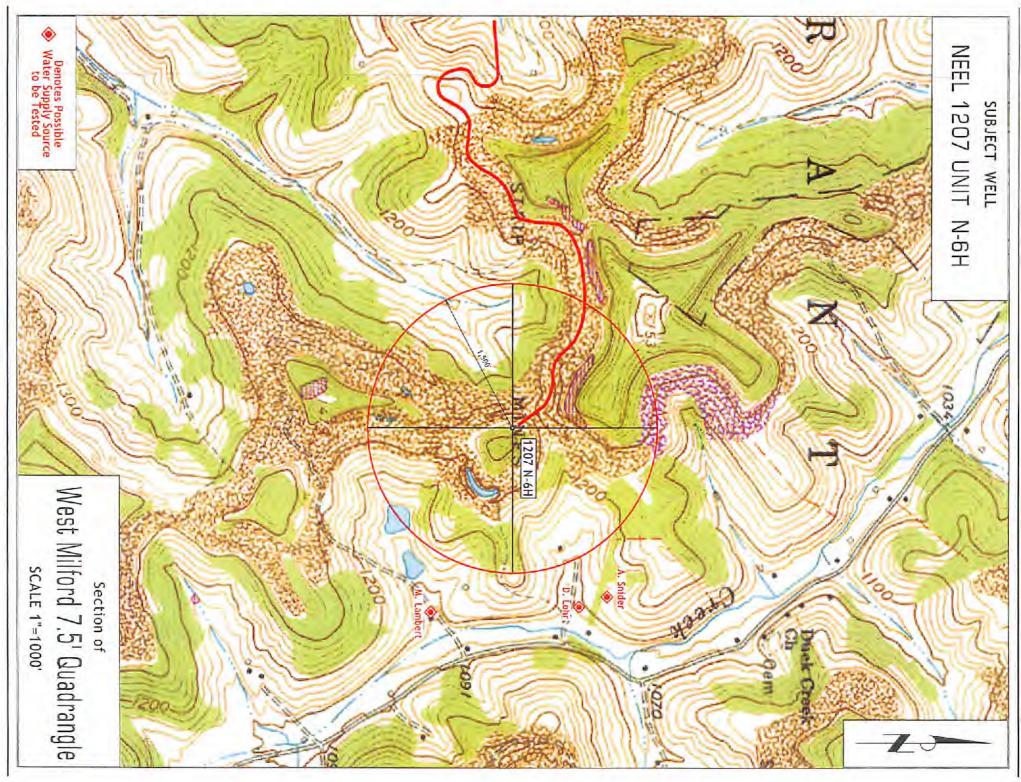
5260 Dupont Road

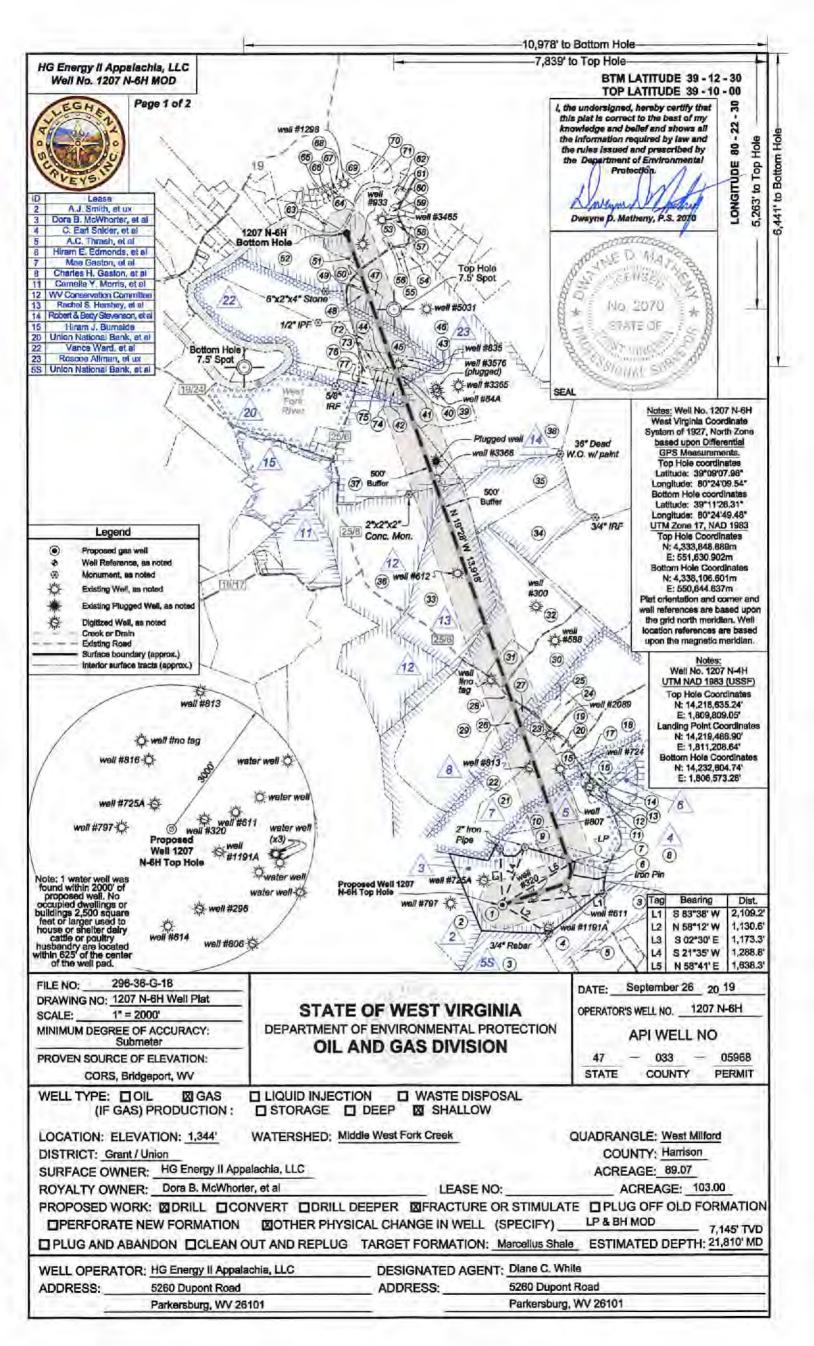
Parkersburg, WV 26101

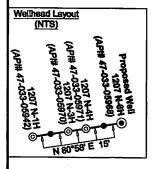
Office of Oil and Ges JAN 1 5 2019 WV Department or Environmental Protection RECEIVED Office of Oil and Gas

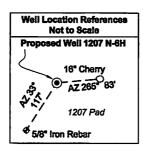
AUG 2 2 2019

WV Department of Environmental Protection









No.	TM / Par	Ac.	Owner	Bk/Pg
1	445/5	89.07	HG Energy II Appalachia, LLC	/
2	445/3	64.00	Lisa M. Nutter	W687 / 445
3	445 / 13	132.85	Mickey Petitto	W175 / 1167
4	445 / 13.1	26.67	Martha Ellen Lambert	/
5	445 / 15.1	35.00	Martha Ellen Lambert	1276 / 582
8	445 / 5.1	3.38	David W. Lohr	1531 / 421
7	445/7	8.00	Anthony D. Snider	1350 / 818
œ	428 / 71	233.35	Antonio P LLC	1503 / 291
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10	425 / 30	21.39	Earl H. & Melissa J. Graham	1337 / 388
11	425 / 29.1	0.27	Rhonda R. & George P. Koutsobaris	1420 / 93
12	425 / 23.3	0.54	Rhonda R. & George P. Koutsobarls	1420 / 93
13	425 / 23.5	0.29	Rhonda R. & George P. Koutsobaris	1411 / 1231
14	425 / 22	1.00	Duck Creek Mission Church Trust	1024 / 964
15	425 / 23.4	0.80	Marlene & Robert V. Shepherd	1201 / 12
16	425 / 21	0.38	Juddith H. Russell	1212 / 1074
17	425 / 20	3.00	Jeffery L. & Parry S. Harvey	1394 / 607
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22	425 / 28	19.92	Marva Shepherd	W168 / 413
23	425 / 9	3.88	Leslie S. Riggleman	W127 / 680
24	425 / 11.1	5.12	Linda Snyder	1124 / 768
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26	425 / 8.1	13.48	James L. Sellers Family Revocable Trust	1480 / 728
27	425 / 8.3	1.41	Melanie S. & Jay A. Morris	1386 / 660
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31	425 / 13	9.00	Penny L. Hines	1481 / 53
32	425 / 14	73.60	WVDNR	W85 / 624
33	425 / 6	105.55	WYDNR	W85 / 624
34	425 / 15	40.85	WVDNR	W85 / 624
35	405 / 81	42.00	WVDNR	W85 / 624
36	425 / 5	173.80	WV State Conservation Commission	W33 / 148
37	405 / 80	90.97	Mary Lou Smith	W177 / 1179
38	405 / 80	90.97	Mary Lou Smith	W177 / 1179
39	405 / 74	107.76	Mary Lou Smith	W177 / 1179

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\$	405 / 62.2	9.93	Danny Joe Miller	1521 / 1108
44	405 / 62.7	0.48	Jeremy L. & Tricia Dobbins	1452 / 340
45	405 / 62	56.18	Evelyn Marle Ward	/
46	405 / 63.8	80.25	Kimberly K. & John T. Lough	1518 / 822
47	405 / 63.10	4.00	Kimberly K. & John T. Lough	1518 / 822
48	405 / 63.5	4.00	Charles F. & Dawn L. Grow	1495 / 523
49	405 / 63.7	1.00	Robert J. Markley, Jr., et al	1560 / 310
50	405 / 63.6	0.50	John P. & Virginia R. Markley	1353 / 1084
51	405 / 63.3	1.15	Ralph L. & Ruth A. Davis	1027 / 283
52	405 / 63.2	42.47	Larry D. Myers Revocable Trust	W191 / 1279
53	405 / 63	32.60	Larry D. Myers & Joseph E. Nutter	1294 / 1089
54	405 / 63.4	4.26	Kimberly K. & John T. Lough	1518 / 822
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71	405 / 12.1	3.38	Brandy D. Fultz	1491 / 512
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73	405 / 62.6	2.63	Michael T. Jr & Ramona J. Morris	1527 / 376
74	405 / 62.4	0.99	Tricia A. & Jeremy L. Dobbins	1336 / 990
75	405 / 62.9	0.74	Tricia A. & Jeremy L. Dobbins	1476 / 953
76	405 / 62.3	1.26	Wayne & Naomi McHenry	1537 / 488
77	405 / 72	4.32	Sandra W. & Willard Miller	1031 / 554

FILE NO: 296-36-G-18

DRAWING NO: 1207 N-6H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

DATE: September 26 20 19

OPERATOR'S WELL NO. 1207 N-6H

API WELL NO

 $\frac{\textbf{47}}{\textbf{STATE}} - \frac{\textbf{033}}{\textbf{COUNTY}} - \frac{\textbf{05968}}{\textbf{PERMIT}}$

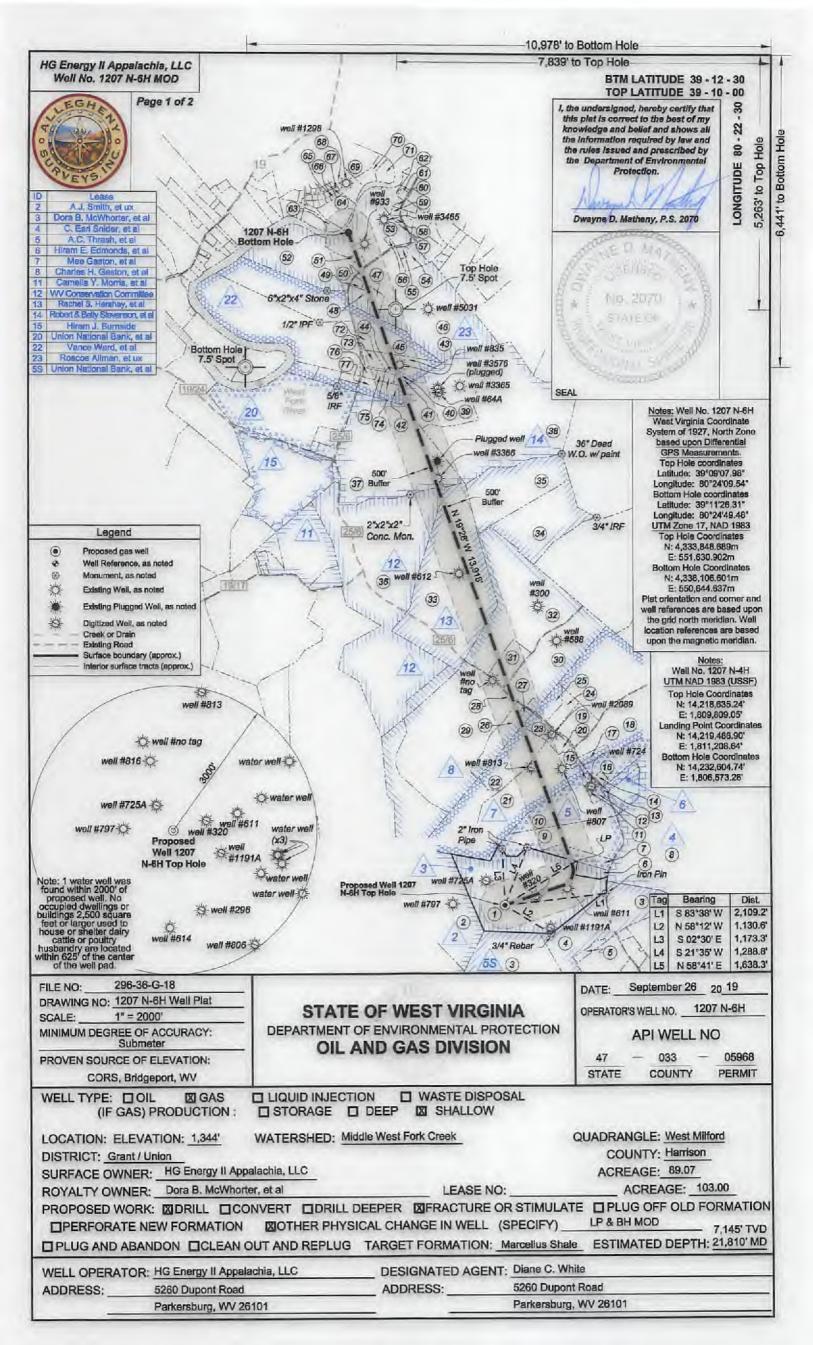
WELL TYPE: ☐ OIL ☑ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☑ SHALLOW	
LOCATION: ELEVATION: 1,344' WATERSHED: Middle West Fork Creek	QUADRANGLE: West Milford
DISTRICT: Grant / Union	COUNTY: Harrison
SURFACE OWNER: HG Energy II Appalachia, LLC	ACREAGE: 89.07
ROYALTY OWNER: Dora B. McWhorter, et al LEASE NO:	ACREAGE: 103.00
PROPOSED WORK: IN DRILL IN CONVERT IN DRILL DEEPER IN TRACTURE OR STIMULA	TE PLUG OFF OLD FORMATION
□PERFORATE NEW FORMATION ☑OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _	LP & BH MOD 7.145' TVD
TIPLUG AND ABANDON TICLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Sha	

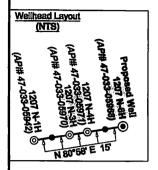
WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White
5260 Dupont Road
Parkersburg, WV 26101







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296-36-G-18 FILE NO: DRAWING NO: 1207 N-6H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter

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

DATE: September 26 20 19 OPERATOR'S WELL NO. ___1207 N-6H

API WELL NO

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV			1 -		UNTY	05968 PERMIT
WELL TYPE: ☐ OIL ☐ GAS (IF GAS) PRODUCTION:	☐ LIQUID INJECTION ☐ STORAGE ☐ DEEP	WASTE DISPO	DSAL			
LOCATION: ELEVATION: 1,344' DISTRICT: Grant / Union SURFACE OWNER: HG Energy II App	WATERSHED: Middle Wes	t Fork Creek	QL	JADRANGLE: COUNTY: ACREAGE:	Harrison	
ROYALTY OWNER: Dora B. McWhorth PROPOSED WORK: DRILL DCO PERFORATE NEW FORMATION DLUG AND ABANDON DCLEAN C	er, et al NVERT DRILL DEEPEF MOTHER PHYSICAL CH	R MERACTURE (HANGE IN WELL	(SPECIFY)	ACREA PLUG OFI LP & BH MOD	GE: <u>10</u> FOLD FO	ORMATION 7,145' TVD
WELL OPERATOR: HG Energy II Appale ADDRESS: 5260 Dupont Road Parkersburg, WV 26	achia, LLC DE	SIGNATED AGEN		oad		

WW-6A1 (5/13)

0	perator's	s 1	Well	No.	Neel 1207 N-6H	

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that —

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

See Attached Sheets

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

RECEIVED
Office of Oil and Gas

OCT - 32019

WV Department of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	HG Energy II Appalachia, LLC				
By:	Diane White	Diane White			
Its:	Accountant				

Page 1 of ____

HG Energy II Appalachia, LLC 1207 N - 6H LEASE CHAIN

TRACT#	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
				DORA B. MCWHORTER, WIDOW, EVERETT EDMONDS AND GLADYS				
				EDMONDS, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	819	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	509
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
		42 0445 0005 0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
3	LC068480	12-0445-0005-0000	Q100813000	DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522 1543	
		12-0445-0005-0001		DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1576	1235
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%) ASSIGNMENT	1576	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSIVISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	WV303	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				A. C. THRASH, MARTHA D. THRASH, HIS WIFE; ROSA A. SHEETS,				
				WIDOW; AND MARY B. DAWSON, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	824	148
		40.0407.0000.0004		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
		12-0425-0023-0004;		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
		12-0425-0023-0003;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		12-0425-0029-0001;		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		12-0425-0030-0001;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
5	LC068725	12-0425-0030-0000; 12-0425-0022-0000;	Q100848000			FIRST AMENDMENT TO MEMORANDUM OF		
		p/o 12-0425-0029-0000;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
		12-0425-0021-0000;		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
		12-0445-0004-0000;	-	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
		12-0445-0007-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		12 0443 0007 0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				Common Transmission, Inc.	TO ENERGY II AIL PADAGINAY EEG	TAMINGO FACILLEMENT		- 501
				MAE GASTON AND W. C. GASTON, HER HUSBAND; VANCE GASTON			i l	
				AND REVA GASTON, HIS WIFE; GARNET H. GRAY AND C. L. GRAY, HER				
				HUSBAND; LENA V. JOHNSON AND EARL W. JOHNSON, HER HUSBAND;				
				EDNA G. LACHAPELLE AND RAYMOND C. LACHAPELLE, HER HUSBAND;			1	
				ADDIE M. GASTON, WIDOW; JAMES HARRY GASTON AND ETHEL D.			i	
				GASTON, HIS WIFE; RACHEL POST WELLS AND M. E. WELLS, HER				
	1			HUSBAND; CAMELLA Y. MORRIS, WIDOW; WILLIAM Y. MORRIS AND				
				VIRGINIA MORRIS, HIS WIFE; ROBERT H. MORRIS AND LOIS T. MORRIS,	1			
				HIS WIFE; RUTH E. WATSON, WIDOW; JEAN D. MORRIS; ALBERT		i i		
				GASTON AND BARBARA GASTON, HIS WIFE; HAROLD GASTON AND				
		12-0425-0009-0000;		MILDRED GASTON, HIS WIFE; BETTY J. CAMARATA AND CARL P.				
		12-0425-0010-0000;		CAMARATA, HER HUSBAND; NELLIE M. GASTON, WIDOW; PATRICIA A.				
		12-0425-0010-0001;		VOGEL AND WILLIAM VOGEL, HER HUSBAND; LORETTA S. KARWICK				
		12-0425-0011-0001;		AND HARRY W. KARWICK, HER HUSBAND; M. MARIE REED FOOSE AND	<u>'</u>			
	1	12-0425-0018-0000;		VINCENT J. FOOSE, HER HUSBAND; OCIE RENSHAW AND O. M. RENSHAW, HER HUSBAND; AND ALPHA KOWALSKY AND PETER J.				
	LC098215;							

		12-0425-0020-0000;		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
		12-0425-0027-0000;		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
		12-0425-0028-0000;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		p/o 12-0425-0011-0000;		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		p/o 12-0425-0029-0000;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	MEMORANDUM OF LEASE	1551	969
						MEMORANDUM OF AMENDED AND RESTATED		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	LEASE	1601	563
						FIRST AMENDMENT TO MEMORANDUM OF		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				CHARLES II CASTON AND NODA AS CASTON INC. WIS SHEET AND THE SHEET AND TH				
	·			CHARLES H. GASTON AND NORA M. GASTON, HIS WIFE; NATHAN G.			1	
				MCWHORTER AND DORA E. MCWHORTER, HIS WIFE; LILLIAN E. STOUT	1		1	
				AND JESSE C. STOUT, HER HUSBAND; BERTHA STALNAKER, WIDOW;			ļ	
				MARY MCWHORTER WEST AND CLINE WEST, HER HUSBAND; EVAN G.			1	
				LAW AND ORA L. LAW, HER HUSBAND; FORD GASTON AND MILDRED				
				E. GASTON, MILDRED G. TALLMAN AND KIRK C. TALLMAN, HER				
	ŀ	12-0425-0026-0000;	-0000;	HUSBAND; FLORA JANE WOLVERTON AND J. MASON WOLVERTON,				
	12-0425-0008-0000;		HER HUSBAND; THE PARKERSBURG NATIONAL BANK, GUARDIAN FOR					
		12-0425-0008-0001;	02; 03; Q100867000	JOSEPH WOOFTER AND ANDREW C. WOOFTER, JR.	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	822	99
8	LC068585	12-0425-0008-0002;		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
J	1	12-0425-0008-0003;		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	509
		12-0425-0014-0000;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		12-0425-0013-0000;		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		12-0425-0012-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				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	1601	581
				RACHEL SMITH HERSHEY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	823	138
				APPALACHIAN ROYALTIES, INC.	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	834	58
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
	1			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
	1			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
LC069359; 12-0425-000	12-0425-0006-0000;	1 0100817000:	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33	
13	13 LC068670 12-0425-0015-0000; 12-0405-0081-0000		12-0425-0015-0000; O100630000			FIRST AMENDMENT TO MEMORANDUM OF		
		12-0405-0081-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
	1			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
						SECOND AMENDMENT TO MEMORANDUM OF		=
				DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
		1		CONSERVATION COMMISSION OF WEST VIRGINIA	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	831	446

1	ı	1	I	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
12	LC069177	12-0425-0005-0000	05-0000 Q101153000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
12	1 ((((())))		Q101133000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
	ļ			DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.			302
				DOMINION ENERGY TRANSMISSION, INC.	·	MERGER/NAME CHANGE ASSIGNMENT	WVSOS 1656	1270
				·	HG ENERGY II APPALACHIA, LLC			
				ROBERT AND BETTY STEVENSON		NOT LESS THAN 1/8	1000	309
				WILLIAM H. AND HELEN JENKINS	UNITED OPERATING COMPANY, INC.	NOT LESS THAN 1/8	1000	319
				CARL V. AND SADIE L. SMITH; WILLIAM L. AND ALBERTA FALKNOR	UNITED OPERATING COMPANY, INC.	NOT LESS THAN 1/8	1000	327
1	•			ALAN AND EMMA YOHO	UNITED OPERATING COMPANY, INC.	NOT LESS THAN 1/8	1000	337
				UNITED OPERATING COMPANY, INC.	PATRICK PETROLEUM CORPORATION	PARTIAL ASSIGNMENT (32%)	1078	1068
				PATRICK PETROLEUM CORPORATION	LADD PETROLEUM CORPORATION	ASSIGNMENT	1142	305
				LADD PETROLEUM CORPORATION	UNITED OPERATING COMPANY, INC.	ASSIGNMENT	1167	207
		12-0405-0080-0000		UNITED OPERATING COMPANY, INC.	PEAKE ENERGY, INC.	ASSIGNMENT	1303	17
				PEAKE ENERGY, INC.	NORTH COAST ENERGY EASTERN, INC.	NAME CHANGE	1354	1122
14	1,0000340	12-0405-0070-0000	ANTERO1	NORTH COAST ENERGY EASTERN, INC.	EXCO - NORTH COAST ENERGY, INC.	NAME CHANGE	AOI 59	795
	LC090349	12-0405-0073-0000 12-0405-0074-0000		EXCO RESOURCES (WV), INC., AND EXCO RESOURCES (PA), INC.	EXCO PRODUCTION COMPANY (PA), LLC, EXCO RESOURCES (XA) LLC, BG PRODUCTION COMPANY (PA), LLC, BG PRODUCTION COMPANY (WV), LLC, AND APPALACHIA MIDSTREAM, LLC	MERGER	1448	721
				EXCO PRODUCTION COMPANY (PA), LLC, EXCO RESOURCES (XA) LLC,		in the state of th		
				BG PRODUCTION COMPANY (PA), LLC, BG PRODUCTION COMPANY				565
				(WV), LLC, AND APPALACHIA MIDSTREAM, LLC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	1503	505
1				ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	NAME CHANGE	CNC 2	914
				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	NOTICE OF AGREEMENT	1637	499
	·			VANCE WARD AND EVELYN WARD, HIS WIFE; MARIE WARD, WIDOW;	ING ENERGY II AFFADACIIIA, EEC	NOTICE OF AGREEMENT	2057	433
		12-0405-0062-0000;	LLOYD S. WARD AND RUBY A. WARD, HIS WIFE; MARIE WARD, WIDOW,					
			•	1	CONSOLIDATED CAS SLIDBLY CORPORATION	NOT LECC THAN 1/0	001	F.C.1
	1	12-0405-0062-0001;		PEGGY L. WARD, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8 .	981	561 250
		12-0405-0062-0002;		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		12-0405-0062-0003; 12-0405-0062-0004;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
	i		. '	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		12-0405-0062-0005;		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	CONFIRMATORY ASSIGNMENT	1442	356
		12-0405-0062-0006;		DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	978
		12-0405-0062-0007;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
22	FK108078;	12-0405-0062-0008;	Q100451000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	MEMORANDUM OF LEASE	1551	969
	FK079962	12-0405-0062-0009;				FIRST AMENDMENT TO MEMORANDUM OF		
		12-0405-0062-0010;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
		12-0405-0070-0000;		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
	1	12-0405-0070-0001;		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
		12-0405-0071-0000;		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		12-0405-0071-0001;		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
		12-0405-0071-0002;	i			SECOND AMENDMENT TO MEMORANDUM OF		
		12-0405-0072-0000;		DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
	1	12-0405-0072-0001				MEMORANDUM OF AMENDED AND RESTATED		
			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	LEASE	1601	563

	1			AGNES SMALLWOOD AND HERMAN E. SMALLWOOD, HER HUSBAND;			1		
			ALECIA MCELFRESH, WIDOW; JOSEPH S. FLOYD AND VIRGINIA V.						
			FLOYD, HIS WIFE; WILLIAM EARL MCELFRESH, COMMITTEE OF			1			
			MYRTLE FLOYD, A MENTALLY INCOMPETENT PERSON; KATHLEEN F.			1			
				GOODWIN AND MURRY GOODWIN, HER HUSBAND; ANNA BUDNY					
				AND STANLEY BUDNY, HER HUSBAND; HARRY W. FITTRO AND JUDY L.			1		
				FITTRO, HIS WIFE; BETTY MCALEXANDER AND THOMAS W.			1		
				MCALEXANDER, HER HUSBAND; ROSCOE M. FITTRO, WIDOWER;			1		
	1			ROBERT M. FITTRO AND JONNA S. FITTRO, HIS WIFE; CARL FLOYD AND			1		
		12-405-0063-0000;		GLADYS FLOYD, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		856	604
		12-405-0063-0001;		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		903	179
		12-405-0063-0001;			1	ASSIGNMENT (PORTION WITHIN 300 FT. RADIUS			
		12-405-0063-0002;		CONSOLIDATED GAS SUPPLY CORPORATION	ALLEGHENY LAND & MINERAL	OF WELL DRILLED)		1073	1101
		12-405-0063-0004;	Q101073000	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	J	1136	250
23	LC071243;	12-405-0063-0005;		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		51	795
25	LC074384	12-405-0063-0006;		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		58	362
		12-405-0063-0007;		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	CONFIRMATORY ASSIGNMENT		1427	829
		12-405-0063-0007;		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	CONFIRMATORY ASSIGNMENT		1442	356
		12-405-0063-0009;		DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT		1457	978
		12-405-0063-0010		DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC	ASSIGNMENT		1458	299
		12-403-0003-0010		DOMINION TRANSMISSION, INC., CONSOL ENERGY HOLDINGS LLC,					
				AND DOMINION EXPLORATION & PRODUCTION, INC.	CNX GAS COMPANY	MERGER/NAME CHANGE		1472	294
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT		1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		1576	125
		· .		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		1600	692
				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	1	1601	581



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

July 19, 2019

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

RE:

Drilling Under Roads - Neel 1207 N-6H

Union District, Harrison County

West Virginia

Diane White

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 C. White

Enclosures

Office RECEIVED
AUG 22 2019
Environmental Frotection

Date of Notice Certification: 07/15/2019

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

API No. 47-

Operator's Well No. Neel 1207 N-6H

				Well Pad N	Name: Neel 12	07	
Notice has l							
	ne provisions in West Virginia Code	§ 22-6A, the	Operator has pro	vided the rec	quired parties v	vith the Notice Forms listed	
	tract of land as follows:			Fastina.	554520.0		
State:	West Virginia		UTM NAD 83	Easting: Northing:	551630.9 4333848.7		_
County: District:	Harrison Union		Public Road Acc		SR19/Hidden Va	llev Road	-
Quadrangle:			Generally used farm name: Hubert E & Sandr		<u> </u>		
Watershed:	Middle West Fork Creek		denerally used in	arm name.	1,000,12 0,00,10		-
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface described equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	shall contain to bed in subdivection sixteen arvey pursuar of this article tender proof of	the following info visions (1), (2) a of this article; (int to subsection were waived in	ormation: (14 and (4), substill that the re (a), section writing by	 A certificating ection (b), see quirement was ten of this arting the surface own. 	on from the operator that (i) 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	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	ed parties with	h the following: CE NOT REQUII	RED BECA	USE NO	OOG OFFICE USE ONLY	
■ 2. NO	TICE OF ENTRY FOR PLAT SURV		ACTIVITY WAS NO PLAT SURV			NOT REQUIRED RECEIVED	
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE O	CE NOT REQUIDED FENTRY FOR IDUCTED or			RECEIVED/ NOT REQUIREDCE VIOLENCE OF OUR	ED and Gas
			TEN WAIVER EASE ATTACH)		CE OWNER	AUG 2 2	
■ 4. NO	TICE OF PLANNED OPERATION					Environmental Pi	rotection
■ 5. PUE	BLIC NOTICE					RECEIVED	
■ 6. NO	TICE OF APPLICATION					☐ RECEIVED	
L			- 112				

Required Attachments:

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

WW-6AC (1/12)

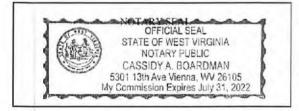
Certification of Notice is hereby given:

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

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Accountant
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 15th day of July, 2019

Connect Book Notary Public

My Commission Expires 7 31 2022

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.

RECEIVED Office of Oil and Gas

AUG 2 2 2019

API NO. 44-7 0 3 3 0 5 0 6 8

OPERATOR WELL NO. Neel 1207 N-6H Well Pad Name: Neel 1207

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: 07/29/2019 Date Permit Application Filed: 08/05/2019 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL REGISTERED ✓ METHOD OF DELIVERY THAT REQUIRES A **SERVICE** MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: HG Energy II Appalachia, LLC Name: NA Address: Address: 5260 Dupont Road Office of Oil and Gas Parkersburg, WV 26101 Name: COAL OPERATOR AUG 2 2 2019 Name: NA Address: Address: WV Department of Environmental Protection ☑ SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Lisa M. Nutter ☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Address: 132 Praise Lane Name: NA Jane Lew, WV 26378 Name: Address: Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☑ SURFACE OWNER(s) (Impoundments or Pits) Dominion Energy Transmission - Attn: Ronald Waldren Address: 925 White Oaks Blvd HG Energy II Appalachia, LLC Name: Address: 5260 Dupont Road Bridgeport, WV 26330 Parkersburg, WV 26101 *Please attach additional forms if necessary

WW-6A (8-13) RECEIVED Office of Oil and Gas

AUG 2 2 2019

API NO. 47-OPERATOR WELL NO. Neel 1207 N-6H Well Pad Name: Neel 1207

Notice is hereby given:

WV Department of

Pursuant to West Virginia Code § 22-6A-10(b), notice is her**Epyiginmethal file and applied** for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intuke 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 WW-6A (8-13) 4703305968

API NO. 47-OPERATOR WELL NO. Neel 1207 N-6H

Well Pad Name: Neel 1207

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Office of Oil and Gas

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

AUG 2 2 2019

WV Department of Environmental Protection

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.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED

AUG 2 2 2019

WW-6A (8-13)

47 0 3 3 0 5 9 6 8
API NO. 47OPERATOR WELL NO. Neel 1207 N-6H
Well Pad Name: Neel 1207

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com Diane White

Address: 5260 Dupont Road

Parkersburg, WV 26101

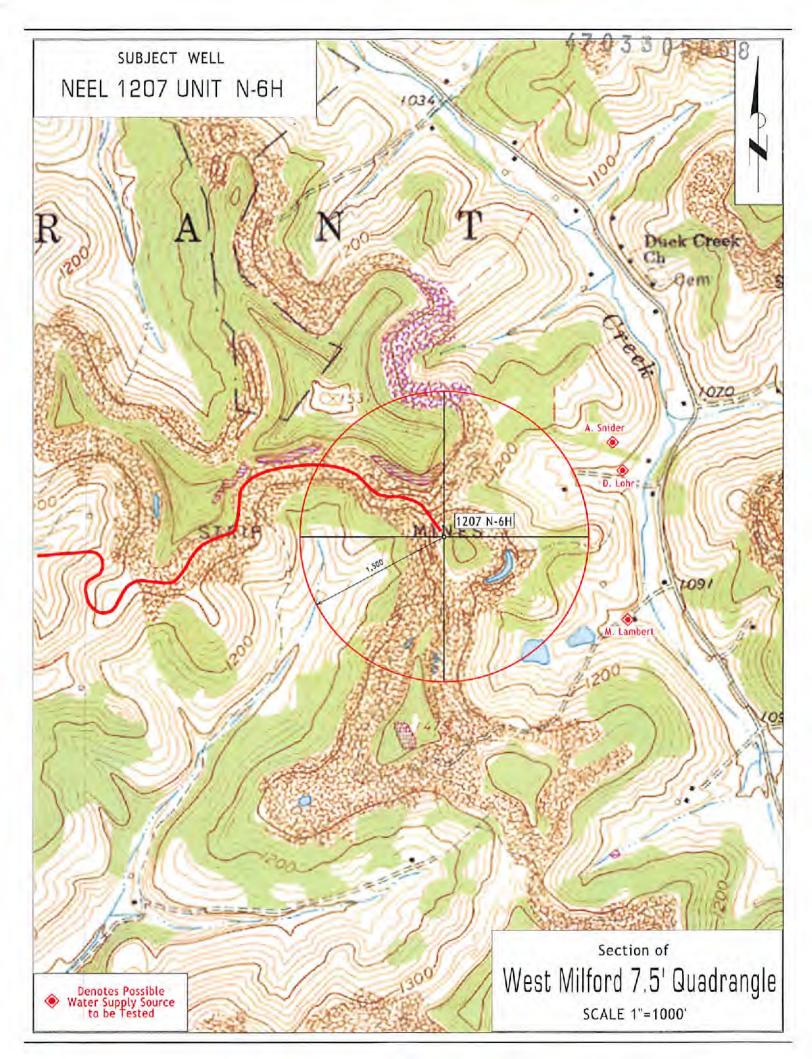
Facsimile: 304-863-3172

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.

(TITE)	OFFICIAL SEAL
HIS. A.	STATE OF WEST VIRGINIA
自由经验	NOTARY PUBLIC
(CASSIDY A. BOARDMAN
-	5301 13th Ave Vienna, WV 26105
	My Commission Expires July 31, 2022

Subscribed and sworn before me this	29th	_day of _July	,2019
Cassidy	Boo	-chu-	Notary Public
My Commission Expires 7/31/2	022		



Diane White

From:

Diane White

Sent:

Wednesday, December 19, 2018 5:07 PM

To:

Vickie Hoops (vhoops@sturmenvironmental.com)

Subject:

1207 Well Pad WSW Owners to be Tested

Attachments:

NEEL 1207 TOPO AND REC PLAN.pdf

Vicki,

Good afternoon. Listed below are three people who we believe have water at about 2000' from the Neel 1207 well pad. Could you please have their water sampled and a pre-drill analysis

run? Please have the paperwork identified as the Neel 1207 Well Pad.

This is in Harrison county, Grant district, the West Milford quadrangle. I've attached a topo and rec plan which should help identify the area. If you need more information please let me know.

Thanks, Diane

From: Timothy Roush

Sent: Wednesday, December 19, 2018 11:53 AM **To:** Diane White dwhite@hgenergyllc.com

Subject: 1207 WSW Owners

The WSW Owners for 1207 are:

SNIDER, ANTHONY D 29 POST OFFICE DR. LOST CREEK, WV 26385

LOHR, DAVID W 74 JUNE BUG DR. LOST CREEK, WV 26385

LAMBERT, MARTHA E 4062 DUCK CREEK RD. LOST CREEK, WV 26385

Timothy P. Roush, PS

HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 troush@hgenergyllc.com 304-420-1120

RECEIVED
Office of Oil and Gas

AUG 2 2 2019



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

July 23, 2019

Dominion Energy Transmission Attn: Ronald Waldren 925 White Oaks Blvd Bridgeport, WV 26330

RE:

Neel 1207 N-6H Well Work Permit Application - Notification

Union District, Harrison County

West Virginia

Dear Mr. Waldren:

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

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located through your gas storage field property. Your rights as an owner of the (field) are detailed in the enclosed permit application papers.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

AUG 2 2 2019



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

July 23, 2019

Lisa M. Nutter 132 Praise Lane Jane Lew, WV 26378

RE: Neel 1207 N-6H Well Work Permit Application - Notification

Union District, Harrison County

West Virginia

Dear Mrs. Nutter:

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

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

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

Very truly yours,

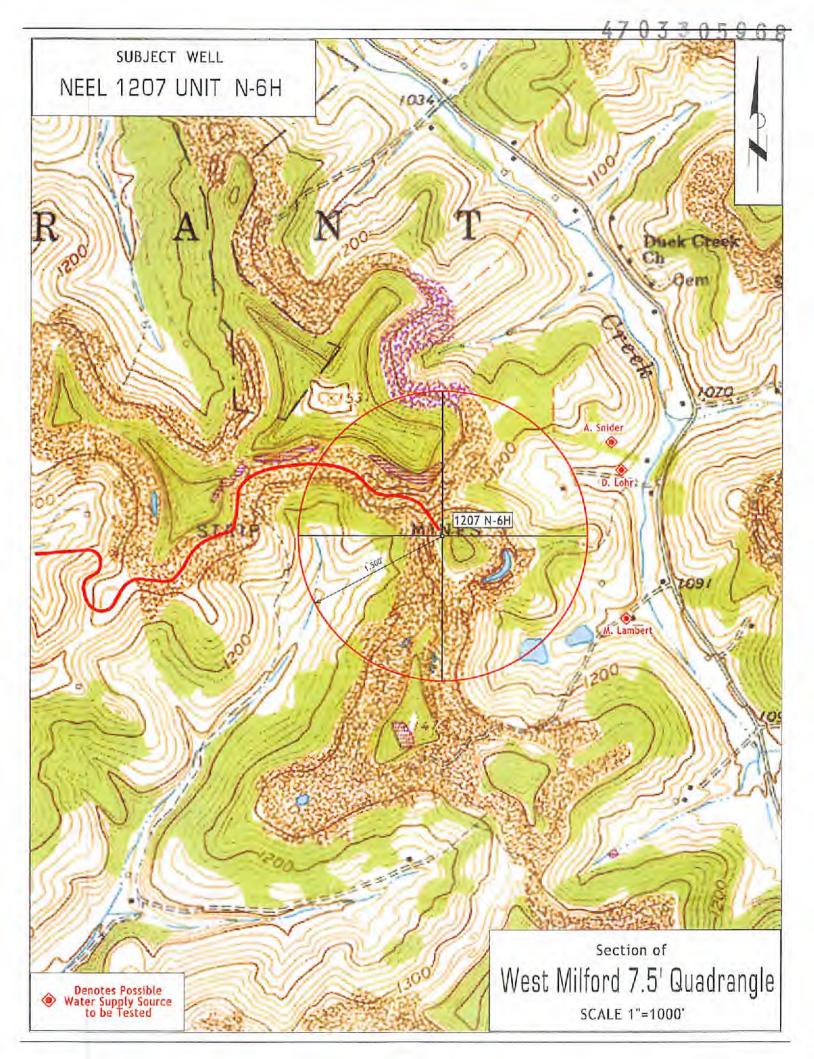
Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

AUG 2 2 2019



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

	requirement.	Notice shall be provided	at least SEVEN (7) days but no more that	nn FORTY-FIVE (45) days prior to
entry Date of Notice	ce: 7/10/19	Date of Planned	Entry: 7/17/19	
		o West Virginia Code §		
☐ PERSO	NIAT []	REGISTERED [METHOD OF DELIVERY THAT RI	EQUIDES A
SERVIC		MAIL	RECEIPT OR SIGNATURE CONFIR	
on to the surfi but no more to beneath such owner of min- and Sediment Secretary, wh enable the sur	ace tract to cond han forty-five da tract that has file erals underlying Control Manua tich statement sh rface owner to o	luct any plat surveys requally prior to such entry to ed a declaration pursuant such tract in the county I and the statutes and rule hall include contact information btain copies from the sec-	o filing a permit application, the operatoried pursuant to this article. Such notice (1) The surface owner of such tract; (2) to section thirty-six, article six, chapter that records. The notice shall include a star related to oil and gas exploration and praction, including the address for a web pretary.	shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any atement that copies of the state Erosion production may be obtained from the
	eby provided to):		2000
	CE OWNER(s) Energy II Appalachia,	N.C.	COAL OWNER OR LE	
Name: HG Address: 526		LLC	Name: NA Address:	
	ersburg, WV 26101		Address.	
Name:				
Address:			MINERAL OWNER(s)	
			Name: See Attached List	
Name:			Address:	
Address:			*please attach additional forms if no	NA AZZONI.
			piease attach additional forms if he	ecessary
	est Virginia Co		is hereby given that the undersigned wel	ll operator is planning entry to conduct
State:	on the tract of la	and as follows:	Approx. Latitude & Longitude:	
State: County:	West Virginia Harrison	and as follows:	Public Road Access:	SR 19
a plat survey of State: County: District: Quadrangle:	West Virginia			
State: County: District: Quadrangle: Copies of the may be obtain Charleston, Wobtained from	West Virginia Harrison Grant/Union West Milford WV 7.5 state Erosion and from the Sec VV 25304 (304- in the Secretary by	nd Sediment Control Man cretary, at the WV Depart 1926-0450). Copies of su by visiting <u>www.dep.wv.g</u>	Public Road Access: Watershed:	SR 19 Middle West Fork Creek Neel pil and gas exploration and production quarters, located at 601 57th Street, SE,
State: County: District: Quadrangle: Copies of the may be obtair Charleston, W obtained from Notice is he	West Virginia Harrison Grant/Union West Milford WV 7.5 state Erosion and from the Sector VV 25304 (304-1) the Secretary by siven by	nd Sediment Control Man cretary, at the WV Depart 1926-0450). Copies of su y visiting <u>www.dep.wv.g</u>	Public Road Access: Watershed: Generally used farm name: ual and the statutes and rules related to o ment of Environmental Protection headq ch documents or additional information ov/oil-and-gas/pages/default.aspx.	SR 19 Middle West Fork Creek Neel mil and gas exploration and production quarters, located at 601 57th Street, SE, related to horizontal drilling may be RECEIVED Office of Oil and Gas
State: County: District: Quadrangle: Copies of the may be obtair Charleston, W obtained from Notice is he Well Operato	West Virginia Harrison Grant/Union West Milford WV 7.5 state Erosion and from the Sec VV 25304 (304- the Secretary by reby given by E. HG Energy II App.	nd Sediment Control Man cretary, at the WV Depart 1926-0450). Copies of su y visiting <u>www.dep.wv.g</u>	Public Road Access: Watershed: Generally used farm name: ual and the statutes and rules related to o ment of Environmental Protection headq ch documents or additional information of ov/oil-and-gas/pages/default.aspx. Address: 5260 Dupont Road	SR 19 Middle West Fork Creek Neel Mid and gas exploration and production quarters, located at 601 57th Street, SE, related to horizontal drilling may be RECEIVED Office of Oil and Gas AUG 2 2 2019
State: County: District: Quadrangle: Copies of the may be obtair Charleston, W obtained from Notice is he	West Virginia Harrison Grant/Union West Milford WV 7.5 state Erosion and from the Sector VV 25304 (304-1) the Secretary by siven by	ad Sediment Control Man cretary, at the WV Depart 926-0450). Copies of su y visiting <u>www.dep.wv.g</u> :	Public Road Access: Watershed: Generally used farm name: ual and the statutes and rules related to o ment of Environmental Protection headq ch documents or additional information of ov/oil-and-gas/pages/default.aspx. Address: 5260 Dupont Road Parkersburg, WV 2610	SR 19 Middle West Fork Creek Neel Mid and gas exploration and production quarters, located at 601 57th Street, SE, related to horizontal drilling may be RECEIVED Office of Oil and Gas AUG 2 2 2019

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.

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

1207N 6H

Page 1 Continued

Mineral Owners

Alberta Lee Falknor 8710 Sugar Creek Point Centerville, OH 45458

Arthur Ward 49 Coleman Dr. Waterford, MI 48328

Betty J. Gaston 1320 Williams Ave Clarksburg, WV 26301

Black Gold Group Limited PO Box 85 Strasburg, OH 44680

Bruce L. Bennett & Kathy D. Bennett RR 3 Box 729 Lost Creek, WV 26385

Caroyln L. Gelinas 4798 Thurston Place San Diego, CA 92130

Charles K Saeler P.O. Box 121 Ellerslie, MD 21529

Charles L. Gray and Goldie Gray 170 Goldie Lane Lost Creek, WV 26385

Clara A. Gaston 1638 1/2 Gould Ave Clarksburg, WV 26301-1614/ Amber McWhorter Ortoll 714 SW 27th Terrace Boynton Beach, FL 33435

Bernard B McWhorter P.O. Box 547 Jane Lew, WV 26378

Billie Sue Simmons 110 S Avalon Road Winston-Salem, NC 27104-4110

Brenda Sue Cross 143 Lilac Ln Philippi, WV 26416

Carleen W. Nutter & Michael Nutter RR 3 Box 808 Lost Creek, WV 26385

Catherine D. Weber RR1 Box 60-1 Belington, WV 26250

Charles K Saeler 14008 S Gardner Ave Ellerslie, MD 21529

Christina L Workman 2803 McDermott Ridge Rd Buckhannon, WV 26201

Cora May Sands Hartzell 129 Huckleberry Branch Ct Daytona, FL 32124 RECEIVED Office of Oil and Gas

AUG 2 2 2019

WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

Cynthia Kay Randolph Barnes 2104 1/2 Pride Ave Clarksburg, WV 26301

Dana Lee Bassell 173 Water Oak Dr Madison, AL 35758

Darlene G. Riggs 312 Duff Rd Penn Hills, PA 15235

Debra Kay Kittle 908 Point Pleasant Rd Belington, WV 26250

Donald and Louella Gaston Family Trust Donald B. Gatson, II, Trustee 1613 Gould Ave Clarksburg, WV 26301-1614

Elizabeth A. Fultineer 1925 Goff Ave Clarksburg, WV, 26301

Emma Jane Yoho 1581 Woodway Road Kent, OH 44240

Genevieve P Saeler 4798 US Highway 19N. Jane Lew, wy 26378

Helen R. Corder 132 Morningside Circle Parkersburg, WV 26101 Cynthia McWhorter Berry 1880 Loon Court Myrtle Beach, SC, 29575

Danny Joe & Deborah Jean Miller PO Box 426 West Milford, WV 26451

David E. Bowyer 12088 Middle Island Rd Alma, WV, 26320

Donald Allen 541 Union Street Carlstad, NJ 07075-1838

Donald R. Reynolds PO Box 607 Jane Lew, WV 26378

Elizabeth Ann Stevenson 650 Terra Calisfornia Drive, Apt 7 Walnut Creek, CA 94595

Evelyn M. Ward and Richard L. Ward 1383 Duck Creek Lost Creek, WV 26385

Helen M. Burton PO Box 8179 Nutterfort, WV 26301

Iden Scott McWhorter 1661 La France St., Unit 314 Atlanta, GA 30307 RECEIVED
Office of Oil and Gas

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Page 1 Continued

Mineral Owners

Ira S. Norris PO Box 7014 Akron, OH 44306

James K. McWhorter RR 2 Box 39 Wellsburg, WV 26070

Jerry Stein 2008 Linkside Lane Woodstock, GA 30187

John G. Sommerville 101 Coventry Ct Bridgeport, WV 26330

John M. Walmsley 2768 La Paz Ave Hemet, CA, 92545

Jonnene Kay Goglin 187 Blackwater Drive Harvest, AL, 35749

Kathy Haller Day Revocable Living Trust P.O. Box 1308 Young Harris, GA 30582

L&D Investments, Inc. 363 Washington Avenue Clarksburg, WV 26301-29/1

Margaret V Saeler Burkett 2522 Carrington Way Frederick, MD 21702 J.P Morgan Chase Bank Trustee of Gore-Morris Trust PO Box 659 Wichita Falls, TX 76307

Jane Lewis P.O. Box 504 Lost Creek, WV 26385

Jimmy Ward 288 Coleman Dr. Waterford, MI 48328

John Henry McWhorter 5392 Duck Creek Rd Alma, WV 26320

John W McWhorter 7704 Enterprise Rd, #1 Myrtle Beach, SC 29588

Joseph M Sands 866 Valencia Rd S Daytona, FL 32119

> Kimberly K. Lough and John T. Lough 4019 Hawk Hwy Lost Creek, WV 26385

Margaret Short RR 2 Box 763 Clarksburg, WV 26301

Mari-Lisa McWhorter Marlowe 9980 Lake Side Drive Tuscaloosa, AL 35406 RECEIVED
Office of Oil and Gas

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

Page 1 Continued

Mineral Owners

Martha Jean Moss 227 Bonnie Brook Dr Charlotte, MI 48813

Mary Ann Shawhan 2854 Poplar Dr Kempner, TX 76539-6834

Mary Beth Bonington
22 Conifer Lane
South Dennis, MA 02660-3628

Mary Jane McWhorter 795 W 2nd Ave Weston, WV 26452

Mary L. Reel 580 Deer Haven Drive Lost Creek, WV 26385

Mary Thrash 770 Duck Creek Rd. Lost Creek, WV 26385

Melissa Barker 216 Hidden Meadows Ln. Jane Lew, WV 26378

Michael Ross P.O. Box 219 Coalton, WV 26257-0219

Mildred L. Brooks 3800 W Wilson St 243 Banning, CA, 92220 Marva Shepherd 3350 Duck Creek Road Lost Creek, WV 26385

Mary Anne Kowalsky 7863 Birchwood RD Chesterland, OH 44026

Mary H. Balmer 619 Ohio Blvd Eustis, FL 32726

Mary Jean Carroll 8305 Farrand Rd Montrose, MI 48457

Mary Lou Smith 1579 Duck Creek Road Lost Creek, WV26386

Maurice M Sands 6272 NE 62nd St Silver Springs, FL 34488

Michael A. Haller 9605 Tinsmith Lane Burke, VA, 22015

Mildred L Brooks c/o Dan Spengler 217 Bridgeside Ct Roseville, CA 95747

Minnie S. Lee LLC Rebecca Waggoner Glass, Mg Member P.O. Box 5034 Cary, NC 27512

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WW-6A3 (1-12)

Page 1 Continued

Mineral Owners

NAJ, LLC c/o Robert L. Johns 216 Brooks St, Suite 200 Charleston, WV 25301

Pamela Faith Schwarz 541 Union Street Carlstad, NJ 07072-1838

Patricia Randolph 189 Randolph Hollow Road \ Clarksburg, WV 26301

Paula Denise Mosier 2102 Covert Rd Burton, MI, 48509

Peggy Ward 49 Coleman Dr. Waterford, MI 48328

Phillip Simon 373 Parker Dr Pittsburgh, PA 15216

Rhonda Koutsobaris 3478 Duck Creek Rd Lost Creek, WV 26385

Robert M. Lewis, Jr & Connic J Lewis 664 Turner Rd Buckhannon, WV 26201

Ryan C. Radtka 205 Mystic Drive Morgantown, WV 26508 Nancy C Harvey 4408 Lorraine Dr Monroeville, PA 15146

Patricia Ann Vogel Heirs 7 Dancer Road Budd Lake, NJ 07828-1919

Paul R. Stein 505 Manor Rd. Cinnaminson, NJ 08077

Peggy Shuman 304 Nathans St, Apt H Elkins, WV 26241

Perenia Gray 14090 Collins Ranch Pl San Diego, CA 92130

Randolph Starr 322 W 6th Ave Tarentum, PA 15084

Rhonda R and George P Koutsobaris 3478 Duck Creek Rd. Lost Creek, WV 26385

Robin Thorne 1839 Snowflake Dr Colorado Springs, CO 80921-4001

Salvation Army P.O. Box 366 Clarksburg, WV 26301

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AUG 2 2 2019

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1207N 6H

Page 1 Continued

Mineral Owners

Sandra Childers 228 Liberty Ave Clarksburg, WV 26301

Sandra Ward Miller & Willard Miller 1383 Duck Creek Road Lost Creek, WV 26385

Seneca-Upshur Petroleum LLC PO Box 2048 Buckhannon, WV 26201

Sheri L. Martz 139 Witt Road Hyndman, PA 15545

Sherry Simon Kauff 430 N Hiddenbrooke Dr Advance, NC 27006

Steven Keith Reed P.O, Box 544 Slater, IA, 50244

Timothy Ward 49 Coleman Dr. Waterford, MI 48328

Victor M. Pappas 16271 SW 83 LN Miami, FL 33193

Will E. Morris Heirs Trust PO Box 659 Wichita Falls, TX 76307 Sandra Simon Faulkner 582 Jackson Blvd Freedom, PA 15042

Sandy Chamberlain 3805 W Elgin St Broken Arrow, OK 74012

Shelley J. Simon 2222 N Robert Bruce Dr Richmond, VA 23235

Sherri L. Gaston PO Box 302 Anmoore, WV 26323

Stephen Simon 4503 Heartland Way Fredericksburg, VA 22408

Suzanne D. Simmons 624 Court Ave Weston, WV, 26452

Timothy Wayne Reed 208 West Harrison Rd Zearing, IA, 50278

Waco Oil and Gas Company, Inc. RO Box 880
Glenville, WV 26351

William Harmon Jenkins 636 Fleet Drive Virginia Beach, VA 26454 RECEIVED Office of Oil and Gas

AUG 2 2 2019

Page 1 Continued

Mineral Owners

William L. Thompson 240 Hite Hollow Rd Hyndman, PA 15545

Zhen Wang 1845 Oakland Dr Mount Pleasant, MI 48858 WV Dept of Natural Resources 324 Fourth Avenue, Bldg 74 South Charleston, WV 25303

*HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101 *will not be noticed by certified mail

> RECEIVED Office of Oil and Gas

AUG 2 2 2019

HG Energy II Appalachia, LLC

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

July 11, 2019

RE: Neel 1207N (2H - 6H)

Grant/Union District, Harrison County

West Virginia

Dear:

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

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Office of Oil and Gas

AUG 2 2 2019



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

November 27, 2018

Re: Lease Boundary Surveys - 1207 Drilling Unit

To: Landowners Located within the 1207 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.

Thank 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 Office of Oil and Gas

JAN 1 5 2019

WV Department of Environmental Protection

> RECEIVED Office of Oil and Gas

AUG 2 2 2019

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.

Oclivery me	hod pursuant to West Virginia Code § 22-6.4	A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		STED	
eceipt requent rilling a hore of this subsection manager	V. Va. Code § 22-6A-16(b), at least ten days protected or hand delivery, give the surface owner notizental well: <i>Provided</i> , That notice given pursition as of the date the notice was provided to the waived in writing by the surface owner. It is facsimile number and electronic mail address.	otice of its intent to enter upon the uant to subsection (a), section te ne surface owner: <i>Provided, how</i> The notice, if required, shall include	ne surface owner's land for the purpose on of this article satisfies the requirements rever. That the notice requirements of this ude the name, address, telephone number
	reby provided to the SURFACE OWNE		
	Energy II Appalachia, LLC * Notice Not Sent	Name;	
ddress: 526	D Dupont Road tersburg, WV 26101	Address:	
tate: County: District: Duadrangle:	West Virginia Harrison Grant/Union West Milford	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	4333848.7 SR 19/Hackers Creek Road Hubert E & Sandra K Neel
uadrangie:	West Militara	Generally used farm fiame.	Tabert E & Garidia IV IVESI
Vatershed:	Middle West Fork Creek		
This Notice Pursuant to acsimile nur elated to ho	Shall Include: West Virginia Code § 22-6A-16(b), this notion in the second drilling may be obtained from the Second Street, SE, Charleston, WV 25304 (304-9)	ator and the operator's authorize retary, at the WV Department o	ed representative. Additional information f Environmental Protection headquarters
This Notice Pursuant to acsimile nun elated to ho ocated at 60	Shall Include: West Virginia Code § 22-6A-16(b), this notion in the second representation of the operation of the second street, SE, Charleston, WV 25304 (304-1984) given by:	ator and the operator's authorized retary, at the WV Department of 926-0450) or by visiting www.de	ed representative. Additional information f Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx.
This Notice oursuant to acsimile nur elated to ho ocated at 60 votice is he Well Operator	Shall Include: West Virginia Code § 22-6A-16(b), this notion ber and electronic mail address of the operatizontal drilling may be obtained from the Section of Street, SE, Charleston, WV 25304 (304-9) reby given by: The Energy II Appalachia, LLC	ator and the operator's authorized retary, at the WV Department of 926-0450) or by visiting	

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information of the propriate of the p

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

AUG 2 2 2019



STATE OF WEST VIRGINIA

4703305968

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

Denvery me	thod pursuant to West Virginia	Code § 2	22-6A-16(c)			
■ CERTI	FIED MAIL	П	HAND			
	RN RECEIPT REQUESTED	_	DELIVERY			
return receipt the planned required to be drilling of a damages to the	t requested or hand delivery, give toperation. The notice required be provided by subsection (b), section (c) and well; and (d) A proposite surface affected by oil and gas of the surface affected by oil and gas of	the surfa y this su on ten of sed surfa operation	ce owner whose land obsection shall include this article to a surface use and compens as to the extent the da	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time	
(at the address	reby provided to the SURFACE of slisted in the records of the sherif	f at the t	ime of notice):			
Address: 5260		_	Address	S:		
Notice is her	eby given:					
Pursuant to V	Vest Virginia Code § 22-6A-16(c),	notice i	s hereby given that the	ne undersigned	well operator has developed a planned	
	the surface owner's land for the p	urpose o		Facting:	ct of land as follows:	
State: County:	West Virginia Harrison		— UTM NAD 8	Northing:	551630.9	
District:	Union		Public Road A		SR19/Hackers Creek Road	
Quadrangle:	West Milford			ed farm name:		
Watershed:	Middle West Fork Creek					
Pursuant to V	ed by W. Va. Code § 22-6A-10(lell; and (3) A proposed surface us ted by oil and gas operations to t related to horizontal drilling may, located at 601 57th Street, SE,	b) to a se e and co he exten be obta	surface owner whose impensation agreeme t the damages are co ined from the Secret	e land will be un nt containing ar compensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-department	
surface affectinformation			Address:	5260 Dupont Road		
surface affect information headquarters	Dr: HG Energy II Appalachia, LLC			Parkersburg, WV 26	5101	
surface affectinformation headquarters gas/pages/de	DE: HG Energy II Appalachia, LLC 304-420-1119			Faireisburg, WV 20		
surface affect information headquarters gas/pages/de Well Operate	304-420-1119	white	Facsimile:			

AUG 2 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

July 11, 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 Neel 1207 Pad, Harrison County 1207 N-6H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-1374 issued to HG Energy II Appalachia 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.

Harz K. Clayton

Regional Maintenance Engineer

Central Office O&G Coordinator

Office of Oil and Gas

AUG 2 2 2019

WV Department of Environmental Protection

Diane White Cc:

HG Energy II, LLC

CH, OM, D-4

File

List of Frac Additives by Chemical Name and CAS

Neel 1207 Well Pad (N-1H to N-6H, S-7H to S-12H)

Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
	Ti Landara	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	

Office of Oil and Gas

AUG 2 2 2019



33-05968 33-05969 13-05970 33-05971 33-05972

DEP Office Use only
Date Received by Oil & Gas: 8 | 2 2 | 19
Assigned Impoundment ID #: 033 - FWIA-DOLD

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

Permit Associated Impoundment / Pit Registration

Instruction: This form is to be used to register impoundments or waste pits, greater than 5,000 bbls, that are associated with a WVDEP, Office of Oil and Gas, well drilling permit. An associated impoundment or pit means it has been designed and included in the well drilling permit application, will follow the reclamation time frame of well work permit, and will be approved in conjunction with the well work permit. An impoundment ID number will be assigned by WVDEP, Office of Oil and Gas, to all impoundments and pits. This impoundment ID number will be sent to the applicant following receipt of this form by WVDEP. Please reference this impoundment ID number with all future correspondence and reference to this impoundment. Conditions as described in W.Va. State Rule §35-4-21 will be followed as it relates to impoundments and pits.

Section 1 - Operator Information

Operator Name:	HG Energy II Appalachia, LLC.			
Operator ID:	494519932			
Address: Street	5260 Dupont Road			
City:	Parkersburg	State: WV	Zip:	26101
Contact Name:	Diane White	Contact Title:	Accountant	
Contact Phone:		Contact Email:	dwhite@hgene	ergyllc.com

Section 2 – Engineering / Design Contractor Information

Design will be contracted	d ■ Designed in-house □			
Company Name:	Penn Environmental & Remedia	ation, Inc.		
Address: Street	111 Ryan Court			
City:	Pittsburgh	State: PA	Zip: 15205	
Contact Name:	Matthew E. Pierce	Contact Title:	Senior Project Manager	
Contact Phone:	412-722-1222	Contact Email:	mpierce@penn-er.com	
	ngineer: Matthew E. Pierce			
Professional Engineer R	egistration Number: 20458			

Office of Oil and Gas

AUG 2 2 2019



Office of Oil and Gas

Section 3 - Impoundment / Pit Information

Type of Structure. Check one of two choose Freshwater Impoundment Note: Any waste in a pit will make it a waste	□w	aste Pit		;
Name of Structure (Company Name :)	HG Energy II Appalachia	LLC.		
County: Harrison	District: _	Grant		
USGS 7.5' Quad Map Name: West M	lilford, WV			
Farm Name: HG Energy II Appalachia	a, LLC.			
Pad Name: Neel 1207				
Surface Owner Name: HG Energy II Ap				
Physical Description of Location: Less to Site access East off of Hackers Creek.	han 2 miles East of the inters	ection of SR 19 (Mi	ilford Street) and H	ackers Creek.
(Note: Give general location, example: 2 miles sou	th of Smalltown, WV on Rt. 22,	eft on Buffalo Creek)		
Watershed (nearest perennial): West	Fork River			
Distance (Drainage Distance) to nearest		Miles	_	
,				
Location Coordinates (NAD83, Decimal	Degrees (xx.xxxx, -xx.xxx	())		
Latitude: 39.1519 Lor	gitude (Use negative sigi	1): -80.4012		
UTM Coordinates : 1810167.923	E 142	18488.684	N	
Access Road Coordinates (junction of st	ate highway access)			
Latitude: 39.1478 Lo	ngitude (Use negative sig	n): <u>-80.4297</u>		
UTM Coordinates : 1802083.571	E142	16963.591	N	
Approximate Dimensions				
Length: 608' Width:	239'	_ Height: _ ^{15'} _		
Note: If irregularly shaped, give approximate dime	nsions of long axis.			
Total Capacity - Provide all units of mea	sure below:			
Barrels: 243,644 Gailon	s: 10,232,903	_Acre-Feet: 3	1.404	
Capacity with 2' Freeboad - Provide all	units of measure below:			
Barrels: 201,091 Gallon	s: 8,445,709	Acre-Feet: 25	5.919	
Incised volume:		_		
Barrels: 59,469 Gallon	s: 2,497,645	_ Acre-Feet: 7.	.665	
				Office of Oil and Ga
Net impounded volume: (Total volume le				and Ga
Barrels: 184,175 Gallon	s: 7,735,258	_ Acre-Feet: 23	3.739	AUG 2 2 2019
				- WDen Jois
Anticipated Construction Start Date (esti		April, 2019	a a tha a distilling or or or	WV Department of Environmental Protection
Note: No construction may begin on Ass calendar days prior to confirmed constru	ction start date notify the	NTII VVVDEP ISSU	es the drilling per as, and the local	mit. At least /
inspector of construction start date. Use	form IMP-2, "Notification	of Impoundment	/ Pit Construction	າ."



Section 4 - Associated Well Numbers and API Numbers. List associated well numbers and API number. API numbers may not be assigned at time of registering this impoundment, if so list as pending.

Well Number(s):	API Number(s) – If issued:
Neel 1207 N-1H	47-033-05942
Neel 1207 N-2H	
Neel 1207 N-3H	
Neel 1207 N-4H	
Neel 1207 N-5H	
Neel 1207 N-6H	

Section 5 - Required Information Checklist To Register Permit Associated Impoundments or Pits. Include the following information and plans with application.

- Engineered Construction Plans, certified by WV Registered P.E.
- Erosion and Sediment Control Plan, certified by WV Registered P.E.
- Reclamation Plan, certified by WV Registered P.E.

Section 6 – Dam Standard Qualifying Evaluation

×	The design of this structure has been evaluated by the applicant to determine it does NOT qualify to be
	defined as a dam, under W.Va Rule §47-34. If the design of this structure qualifies it to be defined as a dam,
	all permits regulating dams will be required prior to registering the structure with the Office of Oil and Gas.
	The dam standard, from the WVDEP, Div. Of Water and Waste, is available for review at:
	http://www.dep.wv.gov/WWE/ee/ds/Pages/default.aspx

Section 7 -Comments - Provide any additional comments concerning this project	-
Office of C	EIVED
Office of C	2 2019
WV Depart Environmental	ment of Protection



Section 8 - Application Certification

I hereby certify that the information listed above is true and accurate. I understand that this pit/impoundment is to be constructed only in a location appropriate for the storage of water, including wastewater, and will be constructed in accordance with plans designed and certified by a West Virginia registered professional engineer. I further recognize that all required plans have been submitted to the Office of Oil and Gas. I understand that after construction, and prior to any fluid being placed in the pit/impoundment, it shall be inspected by a West Virginia registered professional engineer to ensure compliance with the certified design and construction plan, and that the professional engineer shall certify that this structure was constructed in accordance with design and construction plans. I understand that such certification shall be in writing to the Chief and that no fluids may be placed in the pit/impoundment until the certification has been filed with the chief. I agree that this pit/impoundment shall be constructed, maintained, operated and closed in accordance with all applicable laws and rules, including the requirements of W. Va. Code R § 35-4-2.

Name:	Diane White		
Title:	Accountant		
Signature:	Diane White		
	bed and sworn to before me this,	9th Day of July	20 19
Notary Public: My commission		an	
Notary Seal:	OFFICIAL SEAL STATE OF WEST VIRGINIA		
	NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 26105 My Commission Expires July 31, 2022		

Section 9. Submittal Instructions

Submit original paper copy of application to:

West Virginia Department of Environmental Protection
Office of Oil and Gas
Impoundment Registration
601 57th Street, SE
Charleston WW 25304

Email PDF file format of this application and all related engineering Plans to : <u>Depimpoundments@wv.gov</u> Office of Oil and Gas

AUG 2 2 2019

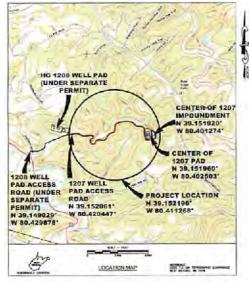
HG 1207 WELL PAD & IMPOUNDMENT



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 511 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, reparian forest buffer boundaries, the limits of cleaning, 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
- 2. 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.
- 3. Sediment Barriers Install permeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.
- 4. Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- 5. Surface Stabilization Analy temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- 6. 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.
- 7. Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- Final Stabilization, Topsolling, 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 PITISBURGH, PA 15205 (412) 722-1222

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SHT. NO.	SHEET TITLE
1	TITLE SHEET
2A-26	SITE DEVELOPMENT PLANS
3	PAD & IMPOUNDMENT SECTIONS
4A-4D	ACCESS ROAD SECTIONS
5A-5F	CONSTRUCTION NOTES & DETAILS
6A-6F	RESTORATION PLAN
7	PROPERTY MAP

WELL #	LAT.	LONG.
N-1H	N 39.15227B	W 80.402724
N-2H	N 39.152284	W 80.402572
N-JH	N 39.152290	W 80.402520
N-4H	N 39.152297	W 80.402567
N-5H	N 39.152303	W 30.402515
N-6H	N 39.152309	W 80.402463
S-7H	N 39.151411	W 80.402540
3-6H	H 39.151417	W 80.402487
S-9H	N 39.151423	W 80.402430
S-10H	N 39,151430	W 80.402383
S-11H	N 39.151436	W 80.402331
S-12H	N 39.151442	W 80.402276

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1207	WELL	PAD	ACCESS	ROAD	DYTRACE	N	39 152061		80.420447
1208	WELL	PAD	ACCESS	ROAD	INTRANCE	N	39.149029	W	80,429878

RECORD	REGORD LOT #	RECORD AREA OF LOT	MITHIN LOD
NEEL HUDER! E & SANOTA K	17-12-0445-0005-0000	69.07 AC.	15.027 AC
NUTTER LISA M	17-12+0445+0003-0000	64.00 AC	2.654 AG
NUTTER LISA W	17-12-0445-0012-0000	64.50 AC.	2.858 AC.
NUTTOR LEA W	17-12-0145-0011-0000	75.50 AL	0.760 AC.
MUTTER LISA W	17-12-0445-0010-0000	66.87 AC	3.475 AC
NUTTER LISA W	17-12-0445-0002-0000	84.57 AC.	3.459 AC.
BECOMMEN WILLIAM W. H. & LINEA, L.	17-12-0425-0051-0000	242.84 AC.	0.025 AC
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WEST VIRGINIA

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TITLE SHEET HG 1207 WELL PAD & IMPOUNDMENT HARRISON COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC

PARKERSBURG, WEST VIRGINIA

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