

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Wednesday, May 19, 2021 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re:

Permit approval for SCHOEN 1205 N-5H

47-033-06009-00-00

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.

Chief

Operator's Well Number: SCHOEN 1205 N-5H
Farm Name: GEORGE & ROSEANNE SCH

U.S. WELL NUMBER: 47-033-06009-00-00

Horizontal 6A New Drill Date Issued: 5/19/2021

API Number:	

PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

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.





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 dep.wv.gov

ORDER ISSUED UNDER WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: HG Energy, LLC 5260 Dupont Circle Parkersburg, WV 26101

DATE: November 30, 2020 ORDER NO.: 2020-W-6

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 et seq. to HG Energy, LLC (hereinafter "HG" or "Operator"), collectively the "Parties."

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

- 1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 et seq., and the rules and regulations promulgated thereunder.
- 2. HG is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 5260 Dupont Circle, Parkersburg, WV 26101.
- 3. On September 3, 2020 HG submitted a well work permit application identified as API# 47-033-05995. The well is located on the Schoen 1205 Pad in the Grant Creek District of Harrison County, West Virginia.
- 4. On September 3, 2020 HG requested a waiver for Wetlands A and B as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-033-05995. Wetlands C, D and E are excluded from this waiver, they are more then 100' from the LOD of the pad.

WV Department of Environmental Protection

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "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 Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas 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."

WV Department of Environmental Protection

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that "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. The Office of Oil and Gas grants the request for a waiver for Wetlands A and B from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API#s 47-033-05995. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Schoen 1205 Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24") in height.
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs.
- c. Wetlands A and B shall be protected by two layers of eight (8") compost filter sock. This along with temporary and permanent vegetative cover will prevent sediment from reaching the wetlands.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual.
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill.
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill.
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls.
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs.
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period.
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies.
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

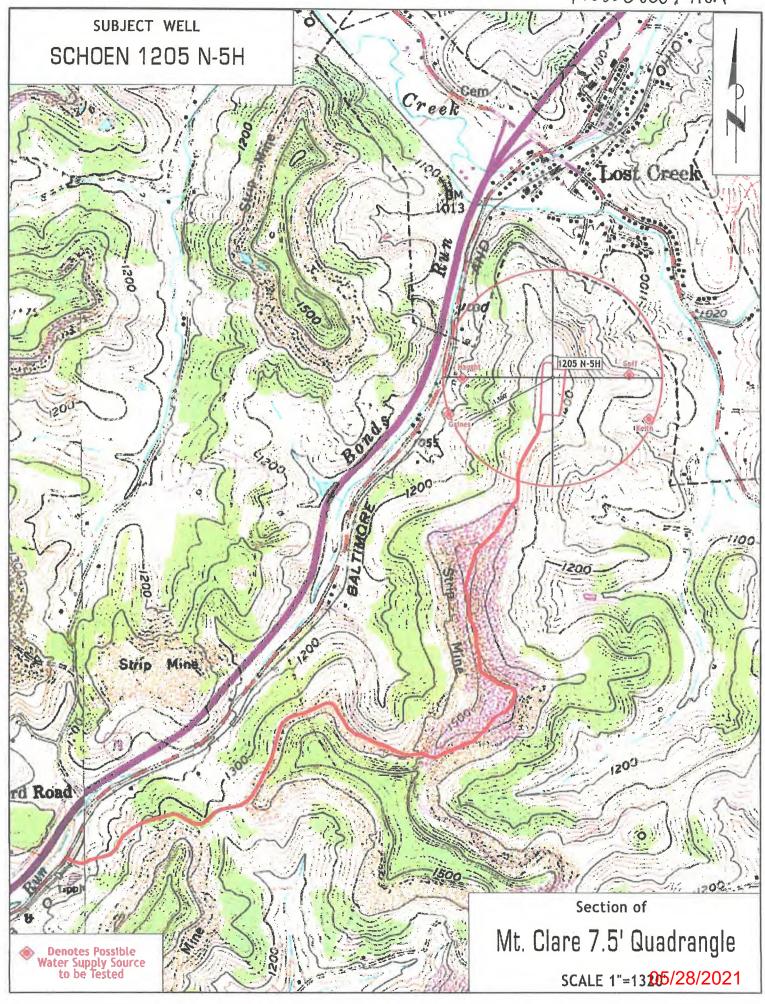
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WV Department of Environmental Protection

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:		
	JAMES A. MARTIN, CHIEF	



API NO. 47- 033 - 06009 H6A OPERATOR WELL NO. Schoen 1205 N-5H Well Pad Name: Schoen 1205

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

1) Well Operato	HG Fne	erav II	Appal	achia. ⊥	494519932	Harrison	Grant	Mount Clare 7.5'
i) well Operato)r; 110 Lin	יי צפיי	- wpol		Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number	Scho	oen 12	05 N-5H	Well I	Pad Name: Sch	oen 1205	
3) Farm Name/S	Surface Own	ner: _C	Seorge	Schoer	Public R	oad Access: _	AcWhorter F	Road / SR25
4) Elevation, cu	arrent ground	d:	1410'	EI	evation, propos	ed post-constru	ction: 1407	1
5) Well Type				Oil _	Ŭ:	nderground Sto	rage	
	Other							
	(b)If Gas	Shall	ow	X	Deep	_		_
			zontal	<u>X</u>				50W 3/24/3
6) Existing Pad							D ()	3/24/3
7) Proposed Ta	rget Format	ion(s),	Depth:	(s), Antic	cipated Thicknes Anticipated pres	ss and Expected	Pressure(s):	. 31-
					Anticipated pres	Suic at 40 14m.		
8) Proposed To								
9) Formation at	t Total Verti	ical De	P	Viarcellu	S			
10) Proposed T	Total Measur	red De	pth:	23,716'				
11) Proposed F	Horizontal L	eg Len	igth:	14,876'				
12) Approxima	ate Fresh Wa	ater Sti	rata De	pths:	135', 480', 64	10', 728'		
13) Method to	Determine I	Fresh V	Water I	Depths:	Nearest offset	well data		
14) Approxima	ate Saltwate	r Deptl	hs: 1	730, 178	0, 2010			
15) Approxima	ate Coal Sea	ım Dep	oths: 5	01, 650', 73	0', 736' (Surface ca	sing is being extend	ed to cover the	coal in the DTI Storage Fiel
16) Approxima	ate Depth to	Possil	ole Voi	d (coal n	nine, karst, other): None		
17) Does Prop directly overly	osed well lo ving or adjac	cation ent to	contair an activ	n coal seave mine?	ams Yes		No X	
(a) If Yes, pr	ovide Mine	Info:	Name): 				
"			Depth	1:				
			Seam	:				
			Owne	er:				

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API NO. 47- 033- 06009 OPERATOR WELL NO. Schoen 1205 N-5H

Well Pad Name: Schoen 1205

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	1200'	1200'	40% excess,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2100'	2100'	40% excess,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	2950'	2950'	40% excess tail, CTS
Production	5 1/2"	NEW	P-110	23	23716'	23716'	20% excess tail, CTS
Tubing							
Liners							

5 PW 2021 <u>3(24)</u>2021 <u>Cement</u> V:

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	40 % excess yield = 1.20, CTS
Intermediate1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lood 40% excess, Toli 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lond 40% excess, Tell 0% Excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.16, tall yield 1.14
Tubing							
Liners							- 1

PACKERS

Kind:		
Sizes:		
Depths Set:		

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API NO. 47- 033-06009

OPERATOR WELL NO. Schoen 1205 N-5H

Well Pad Name: Schoen 1205

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7240 feet. Drill horizontal leg to estimated 14,876' lateral length, 23,716' 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 ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 29.485 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 9.246 acres
- 23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor cealing.
Freshwater - contralized every 3 joints to surface,
Freshwater - contralized every 3 joints to surface,
Goal - Bow Spring on every joint, will also be running ACP for isolating storage zone
Intermediate - Bow Spring on first 2 joints then every third joint to 100 from surface
Intermediate - Bow Spring on first 2 joints then every third joint to 100 from surface.
Run 1 spiral centralizer every 3 joints from the first polit for curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig.
Finsh Walter - 15.6 pog PNE-1 + 3% bwoc CaCI, 40% Excess Yield = 1,20, CTS
Intermediale 1-1.edu :15.4 pog PNE-1 + 2.5% bwoc CaCIC40% Excess / Tail: 15.9 pog PNE-1 + 2.5% bwoc CaCIC40% Excess / Tail: 15

25) Proposed borehole conditioning procedures:

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

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

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

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

Production - Once on bottomTD Water at mixed in the allowage pump mits for at least 2x bottoms up, or until returns end plump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

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*Note: Attach additional sheets as needed.

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HG Energy II Appalachia, LLC Schoen 1205 Well Pad (N-1H, N-2H, N-3H, N-4H, N-5H, N-6H, S-7H, S-8H, S-9H, S-10H, S-11H) Cement Additives

		Premium NE-1 is a	Ingradient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide Magnesium oxide	1 - 5	1305-78-8
emium NE-1	Portland Cement	strength properties.	Crystalline sitios: Quartz (\$102)	1 - 5 0.1 - 1	1309-48-4 14808-60-7
CIMICALI INC.	rordand Cement			l	,I
		Commonly called gel, it is	Ingredient name	%	040
		a clay material used as a cement extender and to	bentonite	90 - 100	CAS number 1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
entonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
alcium Chloride	Accelerator	of strength development			
acidin emoride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
llo Flake	Lost Circulation	a lost circulation material.			
		EB 481			
		FP-13L is a clear liquid organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air entrapment and			- 1
		entrapment and preventing foaming			
		tendencies of latex			
		systems.			
?-13L	Foam Preventer				
		Handing without	Ingredient name	%	CAS number
ranulated Sugar	Retarder	Used to retard cement returns at surface.	Sucrose	90 - 100	57-50-1
	netaluel	A proprietary product			
		that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate temperatures.	Calcium magnasium oxide	90 - 100	37247-91-9
C-1					- 02
		Multi-purpose polymer			
		additive used to control free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
IPA-170	Gas Migration	migration.			
		A (1)			
		A synthetic pozzolan, (primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	Ingredient name	0/	040 - 1
		used to create	Crystalline sitica: Quartz (SiO2)	% 5 - 10	CAS number 14808-80-7
		lightweight cement	Calcium oxide	1 - 5	1305-78-8
		slurries used as either a filler slurry or a sulfate	RECEIVED Office of Oil and Gas		
		resistant completion	Office of Oil and Gas		
	_	cement.	4 D D 4 4 0004		
oz (Fly Ash)	Base		APR 1 4 2021		
		A low temperature			
		retarder used in a wide	Ingredient name WV Department of Environmental Protection	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend		1.0 00	11000 300101.
3	Retarder	the slurry thickening time.			
_	ncialucí				
			Ingredient name	%	CAS number
			2-Butoxyethanol	20 - 30	111-76-2
			Propriefary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	10 - 20 5 - 10	Trade secret. 110615-47-9
		Used to water wet casing and formation to facilitate	Alkylarylsutfonate amine salt	1 - 5	Trade secret.

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1205 N-5H Marcellus Shale Horizontal Harrison County WV

WV Department of Environmental Prote	otion								ounty, WV						
Environmental Prote				1205 I	N-5H SF	{L	14218731.39N 1824131.9E								
Ground Elevation		1407.	3'		1205	N-5H L	P	14220076.28N 1826908.64E				14220076.28N 1826908.64E			
Azm		340.53	8°	1205 N-5H BHL 14234097.45N 1821954					14234097.45N 1821954.07E						
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TÓP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS					
	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" thickness					
			Fresh Water	0	135, 480, 640, 728		15.6 ppg PNE-1 + 3%	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wall					
X	24"	20" 94# J-55	Coal	730	736	AIR	bwoc CaCl 40% Excess	joints to surface	of one hole volume with	thickness Burst=2110 psi					
x			Surface / FW	0	1200		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	Intermediate casing = 0.48					
		13-3/8" 68# J-55 BTC	Little/Big Lime	1467 / 1510	1482 / 1556	AIR / KCL Salt Polymer	2.5% bWoc CaCl	joint	depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.						
x x	17.5"		Injun / Gantz (Storage)	1565 / 1900	1690 / 1970		ppg PNE-1 + 2.5% bwoc			wall thickness Burst=3450 psi					
			Intermediate 1	0	2100		CaCl zero% Excess. CTS								
x x		9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	1993 / 2112	2093 / 2147	AIR / KCL - Salt	Lead: 15.4 ppg PNE-1 +		Once casing is at setting						
			Gordon Stray / Gordon	2195 / 2250	2250 / 2310		2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0					
	12.25"		5th Sand	2440	2468		### ##################################		Circulate a minimum of one hole volume prior to pumping cement.	wall thickness Burst≑3950 psi					
x x			Warren	2835	2860	Polymer									
			Intermediate 2	0	2950										
x x			Speechley	3028	3162										
	9.75" Vertical		Bradford	3342	3367	9.0ppg									
	6.75 Vertical		Benson	4420	4455	SOBM									
			Rhinestreet	5872	6549		bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk		Once on bottom/TD with						
			Cashaqua	6549	6740		FP13L + 0.3% bwoc MPA170		casing, circulate at max allowable pump rate for at	Production casing = 0.415" wall thickness					
x x		5-1/2"	Middlesex	6740	6870	11.5ppg-	Tail: 14.8 ppg PNE-1 +	N Y	least 2x bottoms up, or until						
	8.5" Curve	23# P-110 HP CDC HTQ	West River	6870	7003	12.5ppg-	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%		returns and pump pressures indicate the hole	Burst=16240 psi Note:Actual centraliz					
			Burkett	7003	7048	SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	is clean. Circulate a minimum of one hole	schedules may be char due to hole condition					
			Tully Limestone	7048	7149		bwoc MPA170 20% Excess	every 3 joints from the 1st 5.5" long joint to the	volume prior to pumping	due to note condition					
			Hamilton	7149	7214		Lead Yield=1.19 Tail Yield=1.94	top of the curve.	cement.						
			Marcellus	7214	7315		CTS								
	8.5" Lateral		TMD / TVD (Production)	23716	7240	11.5ppg- 12.5ppg SOBM									
x x			Onondaga	7315											

API Number 47 - 033 - 0600 9
Operator's Well No. Schoen 1205 N-5H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP C	Code 494501907
Watershed (HUC 10) Middle West Fork Creek Quadrangle Mount	Clare 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed well wor	rk? Yes 🗸 No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No If so, what	at ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number	
Reuse (at API Number TBD - At next anticipated well Off Site Disposal (Supply form WW-9 for disposal location))
Other (Explain	
Will closed loop system be used? If so, describe: $\underline{\underline{\hspace{1cm}}}^{\text{Yes, cuttings and fluids will be collected in a closed loop system}$	tem, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil b	ased, etc. Vertical - Air, Air/KCL, Air/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base Oil, Wetting Agents	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill,	dfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, saw	vdust)_NA
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cut West Virginia solid waste facility. The notice shall be provided within 24 hours of rejecti where it was properly disposed.	ttings or associated waste rejected at any ion and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENER on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Env provisions of the permit are enforceable by law. Violations of any term or condition o law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am famil application form and all attachments thereto and that, based on my inquiry of thos obtaining the information, I believe that the information is true, accurate, and compl penalties for submitting false information, including the possibility of fine or imprisonmed.	rironmental Protection. I understand that the f the general permit and/or other applicable liar with the information submitted on this se individuals immediately responsible for lete. I am aware that there are significant ent. RECEIVED Office of Oil and Gas
Company Official (Typed Name) Diane White	APR 1 4 2021
Company Official Title Agent	WV Department of
	Environmental Protection
Subscribed and sworn before me this 29th day of January	, 20 21
CGS le	Notary Public OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGIN MARK J SCHALL HGE PROVIDE HER STATE OF WEST VIRGIN
My commission expires $1/2/2021$	PO Box 5518, Vienna, WY 2810s My Commission Expires November 2, 2021

Lime	ment: Acres Disturbed	29.465 Prev	regetation pH
Fertilizer type 10-	3 Tons/acre or to con	rrect to pH 6.5	
VF	-20-20		
Fertilizer amount		500 lbs/acre	
_{Mulch} Hay		2 Tons/acre	
		Seed Mixtures	
Тел	mporary		Permanent
Seed Type	lbs/acre	Seed '	Гуре lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clove	er 5
	222		
,	mulch as soon	as reasonably possi	ble per regulation.
Comments: Pre-seed/	mulch as soon	as reasonably possi DEP E&S manual.	ble per regulation.
Comments: Pre-seed/	mulch as soon		ble per regulation.
Comments: Pre-seed/	mulch as soon		ble per regulation.
Comments: Pre-seed/	mulch as soon		ble per regulation.
Comments: Pre-seed/	mulch as soon		ble per regulation.
Comments: Pre-seed/	mulch as soon eeded per WV		

WV Department of Environmental Protection

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1575 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

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

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19 Cochranton, PA 16314 814-425-7773

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

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

Sycamore Landfill Inc. Permit #R30-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071 283 Max Lane Yukon, PA 25968 724-722-3500

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

Waste Management Kelly Run Permit # 100663 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

Brooke County Landfill Permît # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED
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05/28/2021

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

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

Energy Solutions Services, Inc. Permit # R-78006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MID020906814 3947 US 131 North, PO Box 1030 Kalkaska, MI 49646 231-258-9961

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Masontown, WV 26542

Mustang Ollfield Services LLC PO Box 739 St. Clairsville, OH 48950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15301

Disposal Locations:

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 330-536-6825

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

Force, Inc. 1380 Rte. 286 Hwy. E, Suite 303 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. Box Wind Ridge, PA 15380

Nichlos 1-A (SWIW #13) Permit # 3862 300 Charrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 713-275-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495

05/28/2021

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 512-478-6545

Adams #3 (Buckeye Brine, LLC) Permit #34-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Corappolis, PA 15108 412-829-7275

SOS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Silcor Olifield Services, Inc.
2939 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652 OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Con...any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

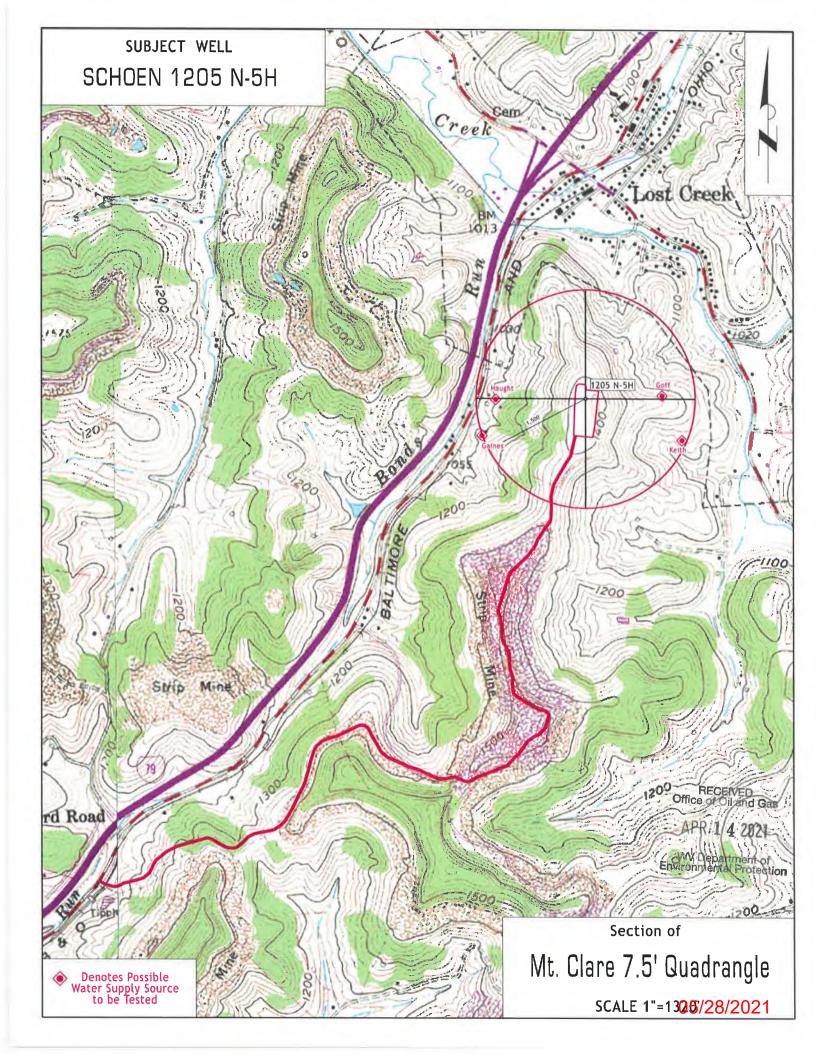
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

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

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HG Energy II Appalachia, LLC

Site Safety Plan

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FEB 08 2021

Schoen 1205 Well Pad

WV Department of Environmental Protection

1279 Sutton Farm Rd
Lost Creek
Harrison County, WV 26385

August 2020: 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

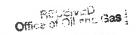
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B.S. 2-2-21

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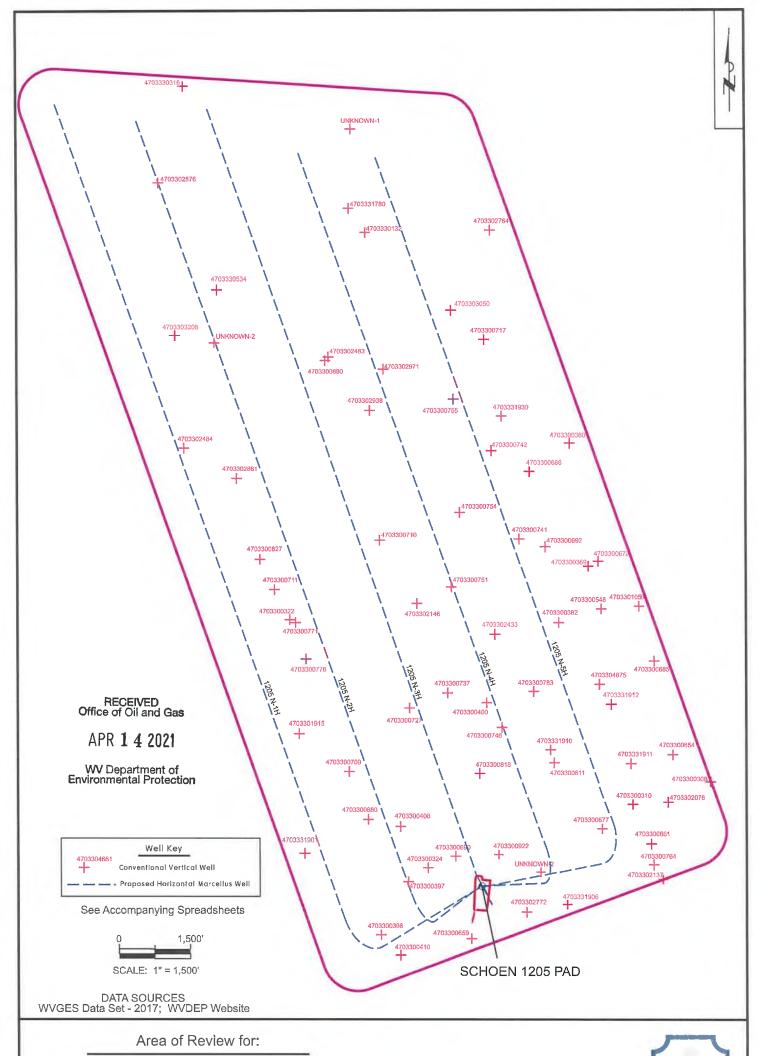


	EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR: SCHOEN 1205 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H & N-5H											
СТ	API	COUNTY	ction FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE		
1	4703300308	Harrison	June Ludwig CW541	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1913	PLUGGED	39.158341	-80.334821		
2	4703300310	Harrison	Alice V Knisley	Dominion Energy Transmission, Inc.	Gantz	Storage	1824	ACTIVE	39.157059	-80.340613		
3	4703300322	Harrison	I M Swisher	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.167870	-80.365986		
4	4703300324	Harrison	John H Hardway 1	Dominion Energy Transmission, Inc.	Gantz	Storage	1644	ACTIVE	39.153472	-80,355885		
5	4703300360	Harrison	Jesse C Stout	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.177946	-80.345070		
6	4703300369	Harrison	S D B Church	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.170834	-80.343766		
7	4703300382	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Gantz	Storage	1653	ACTIVE	39.167589	-80.345998		
8	4703300397	Harrison	Marcella R Bond	Hope Natural Gas Company	Up Devonian	Gas	1587	PLUGGED	39.152681	-80.357369		
9	4703300398	Harrison	J N Rector	Hope Natural Gas Company	Thirty-foot	Storage	2002	PLUGGED	39.149633	-80.359418		
10	4703300400	Harrison	Porter M Rogers	Hope Natural Gas Company	Thirty-foot	Storage	2085	PLUGGED	39.162985	-80.351406		
11	4703300408	Harrison	M R Bond	Dominion Energy Transmission, Inc.	Gantz	Storage	1726	ACTIVE	39.155851	-80.357903		
12	4703300410	Harrison	E A Waggoner	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1964	ACTIVE	39.148438	-80.357974		
13	4703300548	Harrison	Mollie V Bassel	Dominion Energy Transmission, Inc.	Benson	Storage	4350	ACTIVE	39.168367	-80.342834		
14	4703300654	Harrison	A V Knisley CW542	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1748	ACTIVE	39.159938	-80.337616		
15	4703300659	Harrison	S V Curry CW433	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1990	ACTIVE	39.149343	-80.352710		
16	4703300661	Harrison	M S Davis CW538	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1885	ACTIVE	39.154774	-80.339266		
17	4703300672	Harrison	M V Bassell CW452	Dominion Energy Transmission, Inc.	Fifth	Storage	2233	ACTIVE	39.171125	-80.343021		
18	4703300677	Harrison	D L Nutter	Alliance Petroleum Co. LLC	Thirty-foot	Gas	1850	ABANDONED	39.155655	-80.342933		
19	4703300685	Harrison	A V Knisley CW547	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1940	ACTIVE	39.165325	-80.338945		
20	4703300686	Harrison	Lloyd Stout CW458	Dominion Energy Transmission, Inc.	Gordon	Storage	2051	PLUGGED	39.176350	-80.348052		
21	4703300690	Harrison	J J Lewis CW438	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1853	ACTIVE	39.154132	-80.353828		
22	4703300692	Harrison	J C Stout CW456	Dominion Energy Transmission, Inc.	Gantz	Storage	1950	PLUGGED	39.171996	-80.346933		
23	4703300709	Harrison	M Bond CW335	Dominion Energy Transmission, Inc.	Thirty-foot	Gas	2025	PLUGGED	39.159079	-80.361666		
24	4703300710	Harrison	Ray Swisher CW455	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2017	PLUGGED	39.172431	-80.359233		
25	4703300711	Harrison	Lewis Davis CW340	Dominion Energy Transmission, Inc.	Gordon	Storage	2117	PLUGGED	39.169606	-80.367107		
26	4703300717	Harrison	E H Stout CW464	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1996	ACTIVE	39.183988	-80.351326		
27	4703300727	Harrison	Marcella R Bond	Dominion Energy Transmission, Inc.	Benson	Gas	4305	ACTIVE	39.162713	-80.357152		
28	4703300737	Harrison	M Bond CW446	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1904	ACTIVE	39.163560	-80.354301		
29	4703300741	Harrison	A D Bassell CW453	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2208	PLUGGED	39.172441	-80.348854		
30	4703300742	Harrison	A D Bassell CW459	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2145	PLUGGED	39.177553	-80.350856		
31	4703300746	Harrison	A Stalnaker CW445	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1935	PLUGGED	39.161560	-80.350301		
32	4703300751	Harrison	Emma Post CW451	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2248	ACTIVE	39.169652	-80.353945		
33	4703300754	Harrison	A D Bassell CW457	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2160	PLUGGED	39.174028	-80.353269		
34	4703300755	Harrison	P Maxwell CW461	Dominion Energy Transmission, Inc.	Gantz	Storage	2188	PLUGGED	39.180559	-80.353642		
35	4703300764	Harrison	Milton S Davis	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2214	PLUGGED	39.153552	-80.339108		
36	4703300771	Harrison	O G Kennedy CW338	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1996	PLUGGED	39.167697	-80.365568		
37	4703300776	Harrison	L Gifford CW337	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1973	ACTIVE	39.165584	-80.364807		
38	4703300783	Harrison	M V Bassell CW448	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2127	PLUGGED	39.163631	-80.347893		

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	E: WVGES DA	(0S0S) T3SAT	and WVDEP WEBSITE AND	IEFD SORVEYS	VELLOW DENOTE	S WELL WITH TVD > 4,500		GREEN DEN	OTES SURVEYED	NEFFS
ÞΔ	∩NKNOMN-3	Harrison	Bond Heirs	ПИКИОМИ	ПИКИОМИ	aldelieve ton	2445	PLUGGED	S68E81.6E	80,175,08-
73	NNKNOMN-5	Harrison	J.J. Lewis	ПИКИОМИ	ПИКИОМИ	eldelisve ton	-	PLUGGED	981EST.6E	012745.08-
72	ПИКИОМИ-Т	Harrison	Sarah L Vanhorn 1	ПИКИОМИ	чні:	aldaliava ton	-	PLUGGED	39.19621S	67018E.08-
TZ	4703331930	Harrison	E H Stout CW462	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2480	ПИКИОМИ	\$556ZT'6E	98002E,08-
0L	4703331912	Harrison	D L Nutter CW449	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	7987	ПИКИОМИ	178291.68	941245,08-
69	4703331911	Harrison	D L Nutter CW444	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2235	ПИКИОМИ	SE46ST.6E	4070AE.08-
89	4703331910	Harrison	F S Young	Consolidated Gas Supply Corp.	ztnsə	Storage	0161	ПИКИОМИ	39.160252	117946,08-
Z 9	4703331906	Harrison	F S Young	Consolidated Gas Supply Corp.	zhueb	Storage	0161	ПИКИОМИ	99.121.95	ZSSS1/E'08-
99	4703331901	Harrison	S J Davisson CW332	Consolidated Gas Supply Corp.	Hampshire Grp	Storage	7330	OBSERVATION	848431.6E	£2029£.08-
S9	4703331780	Harrison	Margert Reed	Hope Natural Gas Company	Hampshire Grp	seə	9472	PLUGGED	709191.9E	-80.361276
1/9	4703330534	nosimeH	Porter Maxwell 3	Hope Natural Gas Company	Hampshire Grp	SeD	7327	PLUGGED	376381.6£	TST125.08-
63	4703330316	Harrison	M B towther	Philadelphia Oil Co.	Hampshire Grp	SeO bne liO	2455	PLUGGED	967861,68	\$5575.08-
79	4703330132	Harrison	Thomas B Reed	Hope Natural Gas Company	drð əridaqmeH	SEÐ	2455	PLUGGED	81.19021.9	ST003E.08-
τ9	4703304875	Harrison	Worthy C Hall	Dominion Energy Transmission, Inc.	Joof-yfridT	eldelieve ton	7987	PLUGGED	39.164004	710E4E.08-
09	4703303208	Harrison	Porter Maxwell	Dominion Energy Transmission, Inc.	ПИКИОМИ	eldelisvs ton	(e)	PLUGGED	39.184352	22547E.08-
69	4703303050	Harrison	Porter Maxwell (CW-465)	Dominion Energy Transmission, Inc.	ПИКИОМИ	eldelisve ton	-	PLUGGED	017281.65	097525.08-
85	4703302971	Harrison	P Maxwell et al (CW-463)	Dominion Energy Transmission, Inc.	ПИКИОМИ	eldslisvs ton	-	PLUGGED	008281.68	098825.08-
۷S	4703302938	Harrison	Carl Smith Jr	Dominion Energy Transmission, Inc.	tooî-γtîi∃	Storage	7227	ACTIVE	£16671.6£	768685.08-
99	4703302881	nosimeH	E S Swisher (CW-344)	Dominion Energy Transmission, Inc.	ПИКИОМИ	aldaliava ton	-	PLUGGED	650971.6£	₽S869£,08-
SS	4703302876	Harrison	L J Stenger et al	P.G. Oil & Gas, LLC	nexalA	cas	2700	ACTIVE	E71E91.9E	124275.08-
₽S	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	cas	4457	ACTIVE	39.15085	595846,08-
23	4703302764	Harrison	Sarah Heldreth 3	Dominion Energy Transmission, Inc.	H J H	aldelieve ton	-	PLUGGED	105061.65	118025.08-
25	4703302484	Harrison	C H Woodford CW343	Dominion Energy Transmission, Inc.	too1-γτιίπΤ	Storage	0961	ACTIVE	808771,68	Z27575.08-
ŢS	4703302483	Harrison	C H Woodford CW347	Dominion Energy Transmission, Inc.	ztnsə	noitevreadO	77764	PLUGGED	820881.68	-80.362946
09	4703302433	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Benson	seg	∠S9ħ	ACTIVE	39.166932	857025.08-
67	4703302146	nozivisH	Fmma Post	Dominion Energy Transmission, Inc.	nexander	Sea	0867	ACTIVE	347831.68	164925.08-
817	4703302137	Harrison	siveQ 2 M	Dominion Energy Transmission, Inc.	Benson	Sea	8744	ACTIVE	107221.65	124888.08-
LΦ	4703302076	Harrison	A V Knisley	Dominion Energy Transmission, Inc.	Benson	SeD	4227	ACTIVE	081721.9E	6867££.08-
917	4703301915	Harrison	G Thomas Smith	Dominion Energy Transmission, Inc.	Greenland Gap Fm	SBD	0694	ACTIVE	682191 68	896296.08-
St	4703301050	Harrison	Bassell 3	Dominion Energy Transmission, Inc.	ЧЛія	SEÐ	7374	PLUGGED	812891.68	9£004£.08-
לל	4703300922	Harrison	Jaoy A A	Dominion Energy Transmission, Inc.	Benson	SaĐ	SStt	ACTIVE	39,154204	EE302E.08-
43	0680088074	Harrison	C H Woodford	Dominion Energy Transmission, Inc.	Benson	seə	0997	ACTIVE	39.182815	081696.08-
77	0880088074	Harrison	Marcella Bond	Dominion Energy Transmission, Inc.	Benson	SBƏ	9477	ACTIVE	39.156295	062098.08-
Τħ	4703300827	nozimeH	HJim2 W A	Dominion Energy Transmission, Inc.	ЧЛія	seə	6862	ACTIVE	SYETYT. 6E	P\1885.08-
040	4703300818	Harrison	David C Curry CW441	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1880	PLUGGED	39.158922	596125.08-
36	4703300811	nosimeH	D L Mutter	Dominion Energy Transmission, Inc.	Benson	sea	4365	ACTIVE	00S6ST'68	£4494£.08-



SCHOEN 1205 NORTH UNIT

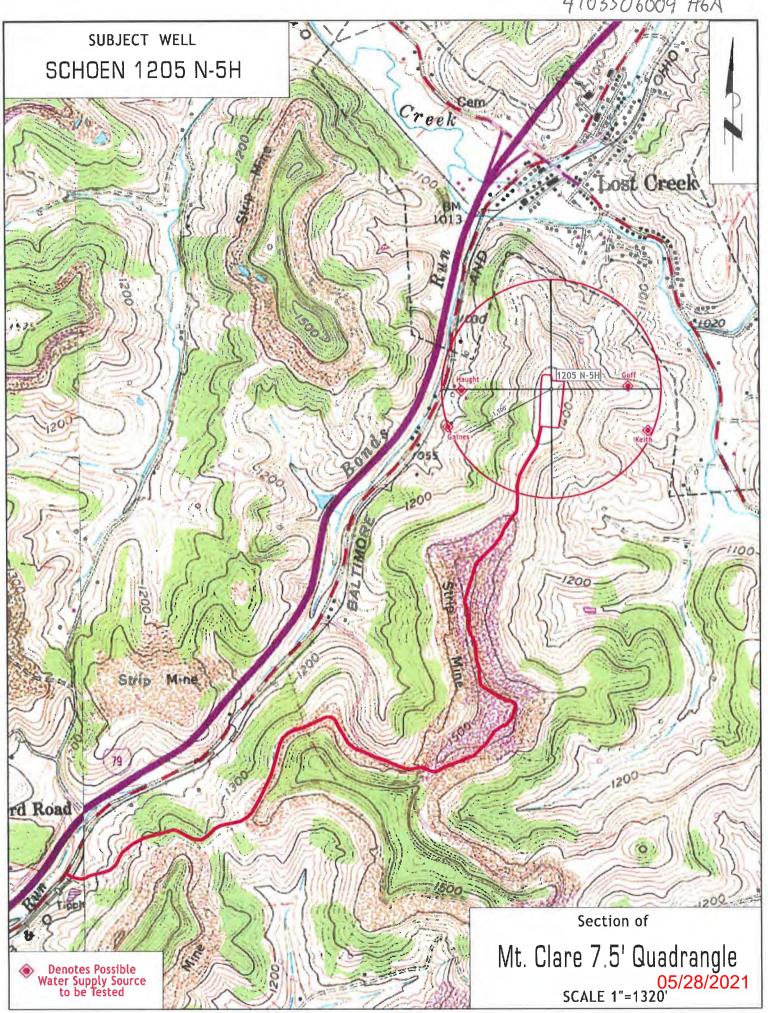
Proposed 1205 N-1H Proposed 1205 N-2H Proposed 1205 N-3H Proposed 1205 N-4H Proposed 1205 N-5H Proposed 1205 N-6H

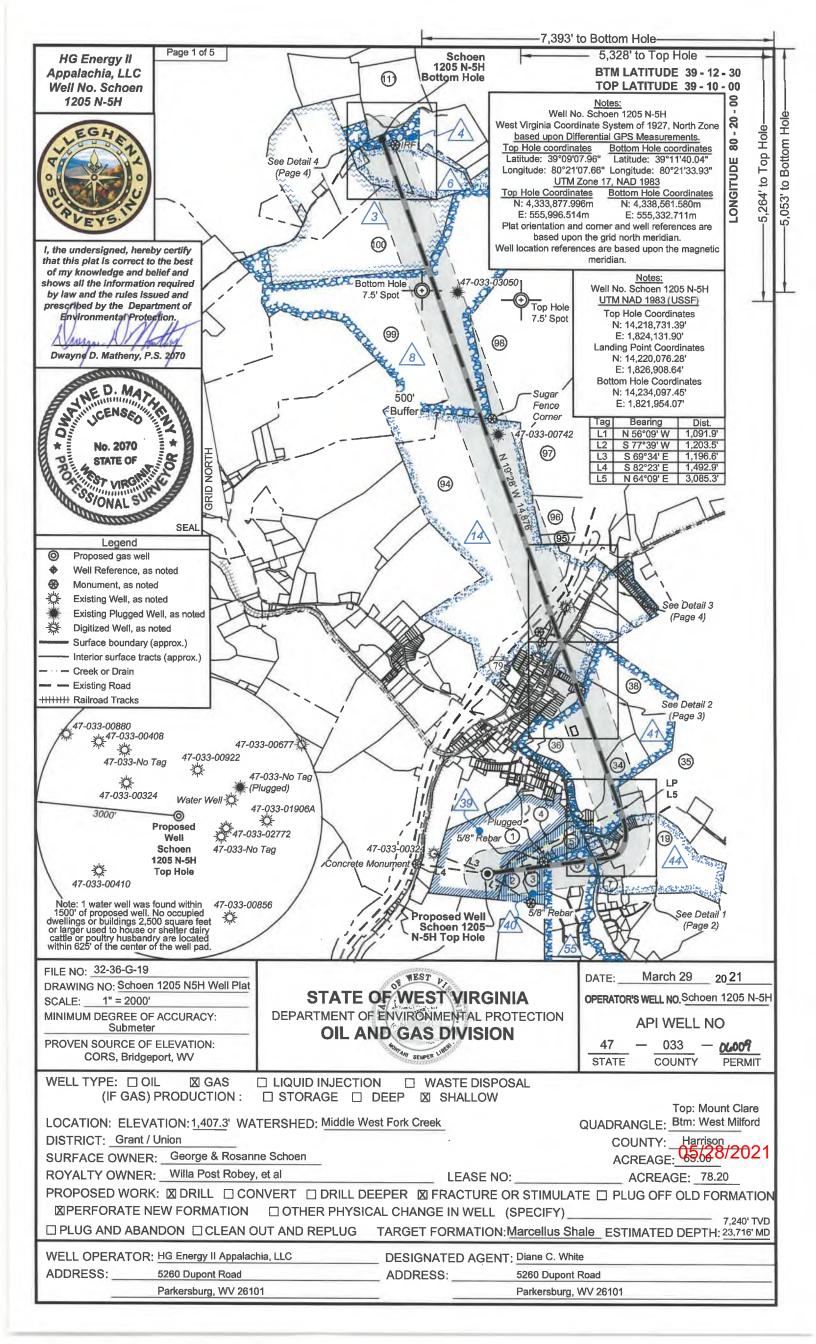
Grant District, Harrison County, W.Va.

HG ENERGY, II APPALACHIA, LLC 5260 DuPont Road, Parkersburg, WV 26101

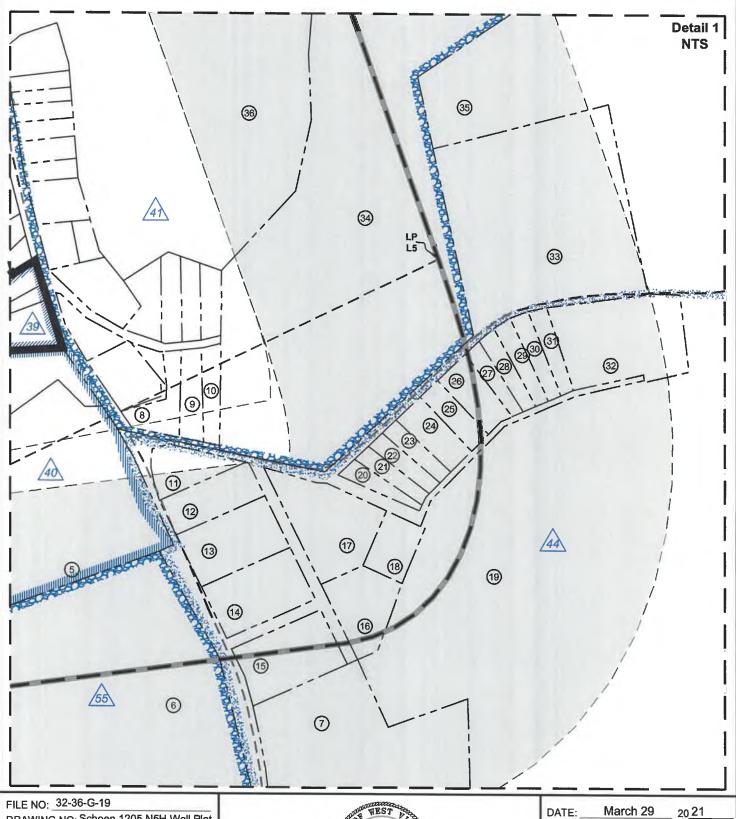
05 2 1/202 ENERGY

12/28/2020









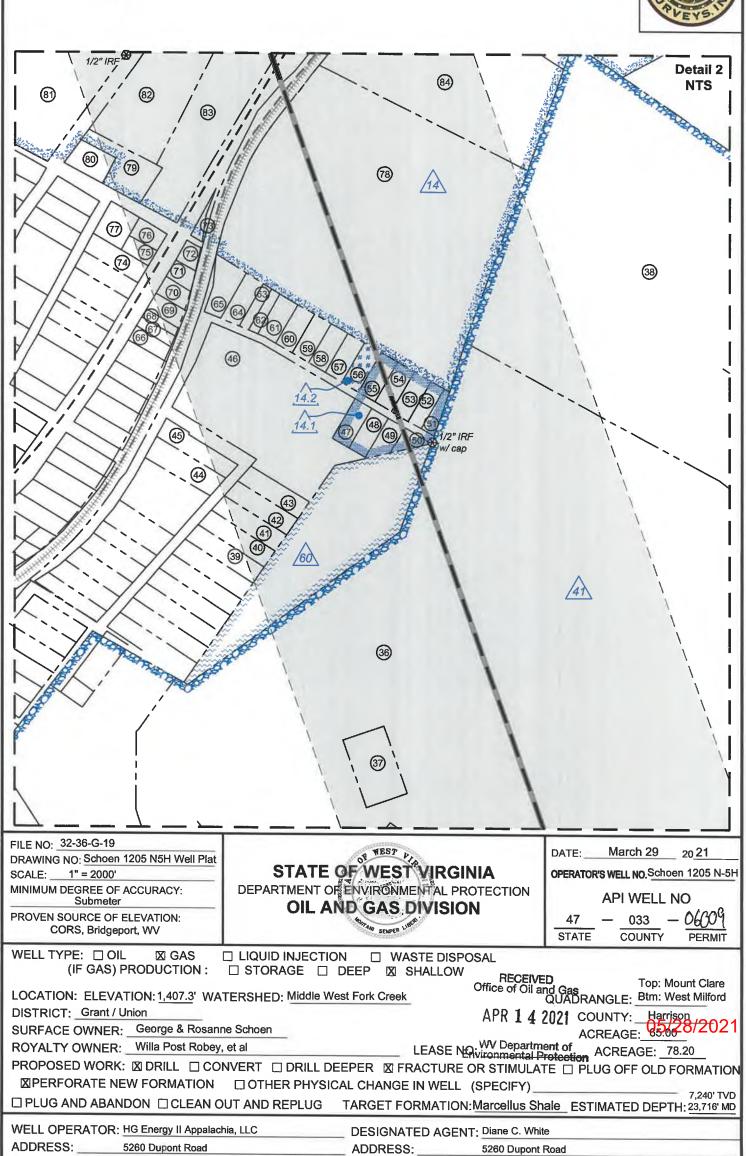
STATE OF WEST VIRGINIA DRAWING NO: Schoen 1205 N5H Well Plat OPERATOR'S WELL NO. Schoen 1205 N-5H 1" = 2000' SCALE: DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: **API WELL NO** Submeter OIL AND GAS DIVISION PROVEN SOURCE OF ELEVATION: 47 CORS, Bridgeport, WV STATE COUNTY WELL TYPE: OIL X GAS □ LIQUID INJECTION □ LIQUID INJECTION □ WASTE DISPOSAL □ STORAGE □ DEEP ☒ SHALLOW (IF GAS) PRODUCTION: Office of Oil and ABRANGLE: Btm: West Milford LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek APR 1 4 2021 COUNTY: Harrison ACREAGE: Q5.028/2021 DISTRICT: Grant / Union SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al ROYALTY OWNER: Willa Post Robey, et al LEASE NO: WV Department of ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE OF ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,716 MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101

Page 3 of 5

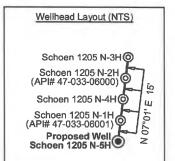
Parkersburg, WV 26101

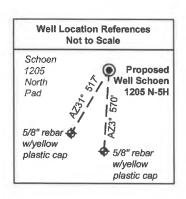




Parkersburg, WV 26101



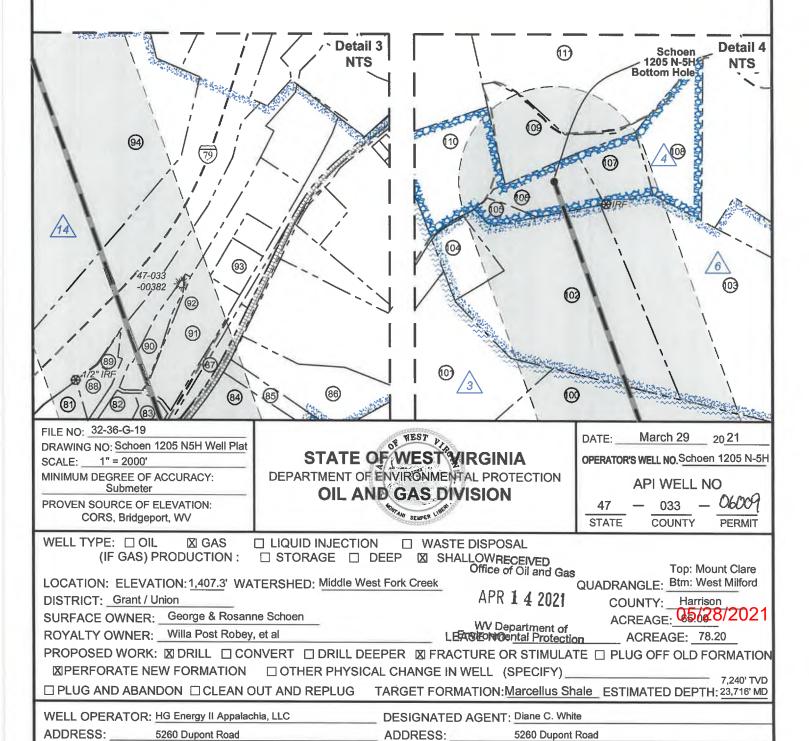




Parkersburg, WV 26101

ID	Lease
3	Emory L. Stout, et ux
4	Cassie G. Smith, et al
6	Edna M. Swisher, et al
8	Porter Maxwell, et al
14	Mollie V. Bassell, et al
14.1	Charles D. Lesson
14.2	Brenda Joyce Cogar, et al
39	Willa Post Robey, et al
40	Charlotte C. Gerlach, et ux
41	D.L. Nutter, et ux
44	Milton S, Davis, et al
55	French S. Young, et ux, et al
60	Betty J. & Isaac H. Maxwell, III

Parkersburg, WV 26101





Me	TM / Dec	0	Dk/D- T	
No.	TM / Par	Owner	Bk/Pg	Ac.
1	447/2	George & Rosanne Schoen	1148 / 1059	65.00
3	447/3	George & Rosanne Schoen	1253 / 302	10.06
4	447 / 3.4	Stephen M & Kimberly Goff	1257 / 189	7.67
_	447 / 3.3	Charlotte C. Gerlach	1070 / 1041	6.10
5	447 / 3.2	Michael Tillman & Mary Hencke	1257 / 193	5.86
6	447 / 4.1	Joseph & Karen Bowers	1295 / 887	21.87
7	447 / 6.1	Michael & Charlotte Moses	1364 / 7	7.20
8	2105 / 51	Helen Irene Eakle Estate	/	
9	2105 / 52	Virgil Lamb	1577 / 1012	0.33
10	2105 / 55	Rondal Lake	1415 / 288	0.23
11	2105 / 118	Church of God Trustees	1097 / 818	
12	2105 / 119	Church of God Trustees	1097 / 818	
13	2105 / 120	Church of God Trustees	1097 / 818	
14	2105 / 121	Charles & Mitzie Reider	1646 / 958	0.88
15	2105 / 122	Janice Dean	1456 / 1011	0.99
16	2105 / 57	Thomas & Terri Hawkins	1558 / 1255	0.76
17	2105 / 56	Thomas & Terri Hawkins	1558 / 1255	1.41
18	2105 / 58	Thomas & Terri Hawkins	1558 / 1255	0.38
19	447 / 6	Thomas E. & Terri E. Hawkins	1558 / 1255	84.25
20	2105 / 59	Mary Ann Bowyer, et al	F1118 / 63	0.23
21	2105 / 60	Mary Ann Bowyer, et al	F118 / 63	0.22
22	2105 / 61	Lisa Hickman	1621 / 760	0.21
23	2105 / 62	Lisa Hickman	1621 / 760	0.20
24	2105 / 63	Lisa Hickman	1621 / 760	0.38
25	2105 / 64	David W. Stutler	1482 / 433	0.28
26	2105 / 65	Jean Riffle Estate	/	0.42
27	2105 / 67	Jean Riffle Estate	/	0.21
28	2105 / 68	Jean Riffle Estate	/	0.25
29	2105 / 69	Jean Riffle Estate	/	0.26
30	2105 / 70	Kevin R. Kolenda	1257 / 800	0.26
31	2105 / 71	Kevin R. Kolenda	1257 / 800	0.26
32	2105 / 73	Paul Winnters Estate	W201 / 472	1.53
33	427 / 28.1	Allen Scott Hall	1265 / 589	5.40
34	427 / 34	Worthy C. Hall	1577 / 626	27.00
35	427 / 28	Worthy C. Hall	1577 / 626	248.44
36	427 / 33	Isaac & Betty Maxwell	1539 / 141	72.00
37	427 / 33.1	Greater Harrison Co.	1424 / 1161	0.48
38	427 / 27	Worthy C. Hall	1577 / 626	51.75
39	2103 / 94	Candice S. Wheeler	W125 / 113	0.25
40	2103 / 88	Candice S. Wheeler	W125 / 113	0.25
41	2103 / 82	Cardice S. Wheeler	-	
42	2103 / 75	Cardice S. Wheeler	W125 / 113 W125 / 113	0.23
43	2103 / 68	Candice S. Wheeler	_	0.22
43	2103 / 74	Eugene N. & Linda S. Alkire	W125 / 113	0.22
45	2103/74	Charles Melton Estate, et al	1131 / 636	0.23
	COLUMN TO BUILDING	Christian R. Grymes	4540 / 400	0.26
46	2103 / 37		1516 / 139	2.95
47	2103 / 38	Charles D. Lesson	1585 / 664	
48	2103 / 39	Charles D. Lesson	1585 / 664	
49	2103 / 40	Charles D. Lesson	1585 / 664	
50	2103 / 41	Charles D. Lesson	1585 / 664	
51	2103 / 26	Charles D. Lesson	1585 / 664	
52	2103 / 25	Charles D. Lesson	1585 / 664	
53	2103 / 24	Charles D. Lesson	1585 / 664	
54	2103 / 23	Charles D. Lesson	1585 / 664	
55	2103 / 22	Charles D. Lesson	1585 / 664	-
56	2103 / 21	Joshua & Harley Miller Cogar	W174 / 683	

No.	TM / Par	Owner	Bk / Pg	Ac.
57	2103 / 20	Joshua & Harley Miller Cogar	W174 / 683	
58	2103 / 19	Dennis W. & Rose M. Chamberlain	1335 / 911	
59	2103 / 18	Dennis W. & Rose M. Chamberlain	1335 / 911	
60	2103 / 17	Jonah E. Cogar	1432 / 493	
61	2103 / 16	Jonah E. Cogar	1432 / 493	
62	2103 / 15.1	Jonah E. Cogar	1432 / 493	
63	2103 / 15	Eugene R. Smith Jr.	1329 / 532	
64	2103 / 14	Eugene R. Smith Jr.	1329 / 532	
65	2103 / 13	Drexal L. Mullen	W134 / 323	
66	2103 / 51	Judith A. Corkrean	1148 / 474	0.11
67	2103 / 46	Judith A. Corkrean	1148 / 474	
68	2103 / 46.1	Judith A. Corkrean	1148 / 474	
69	2103 / 36	Judith A. Corkrean	1148 / 474	
70	2103 / 31	Beverly A. Foster	1096 / 205	
71	2103 / 12	Beverly A. Foster	1096 / 20	
72	2103/7	Beverly A. Foster	1096 / 205	
73	2103/2	Beverly A. Foster	1096 / 205	
74	2103 / 30	Gregory A. Foster	1404 / 455	
75	2103 / 11	Gregory A. & Beverly A. Foster	1256 / 109	
76	2103/6	Gregory A. & Beverly A. Foster	1256 / 109	
77	2103 / 11.1	Joshua D. Messenger	1492 / 197	0.24
78	427 / 13	Dennis & Rose Chamberlain	1321 / 102	9.25
79	427 / 1.12	Jerry & Myma Kincaid	1484 / 1045	0.30
80	2103 / 1	Jerry & Myrna Kincaid	1484 / 1045	0.19
81	427 / 1.6	Michel M. Lewis	1598 / 301	2.45
82	427 / 1.7	Apostolic Christian	1598 / 301	
83	427 / 1.13	Apostolic Christian		3.83
84	427 / 1.13	Debra & David Shriver	1598 / 296	1.80
85	427 / 15	Reid & Vicki Smith	1218 / 787	4.19
86	427 / 16	Reid & Vicki Smith	1506 / 332	0.63
87	427 / 1.10	Charles & Nancy Shock	1336 / 710	4.21
88	427 / 1.10	Michel M. Lewis	1299 / 472	0.80
89	427 / 1.5	Walter & David Nutter	1444 / 142	0.76
90	427 / 1.4	Apostolic Christian	0.25	0.25
91	427 / 1.8	Charles & Nancy Shock	1466 / 825	1.41
92	427 / 1.14	Apostolic Christian	1368 / 201	5.96
			1596 / 475	0.15
93	427 / 1.2	Mary Jane Lewis	1452 / 1191	1.00
94	427 / 1	Walter E. Nutter & David H. Nutter	154 / 301	228.20
95	427/3	Walter Nutter	W154 / 301	8.00
96	427 / 48	Walter E. & David H. Nutter	W154 / 301	33.00
97	427 / 61	Walter E. & David H. Nutter	W154 / 301	116.16
98	407 / 25	Richard D. Mendez	W168 / 424	192.71
99	406 / 25	Isaac H. III & Betty Jean Maxwell	1509/934	255.20
100	406 / 27	James Stout	W161 / 306	43.50
101	406 / 11	Mildred Stout	1138 / 993	44.80
102	406 / 15	Danny Haggerty	1362 / 278	17.06
103		Danny Haggerty	1362 / 278	19.00
104			1497 / 995	2.02
105			1496 / 1170	0.58
106	406 / 13.2		1524 / 1195	2.56
107	406 / 13	Leonard C. Paugh	1524 / 1195	2.12
108		Danny E. & Debra D. Haggerty	1061 / 11	4.00
109			1393 / 362	4.75
110	406 / 13.1	Marie Control of the	1408 / 44	4.50
111	386 / 127	Sherry Louise Ricketts	916 / 343	40.75
122222				

FILE NO: 32-36-G-19

DRAWING NO: Schoen 1205 N5H Well Plat
SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

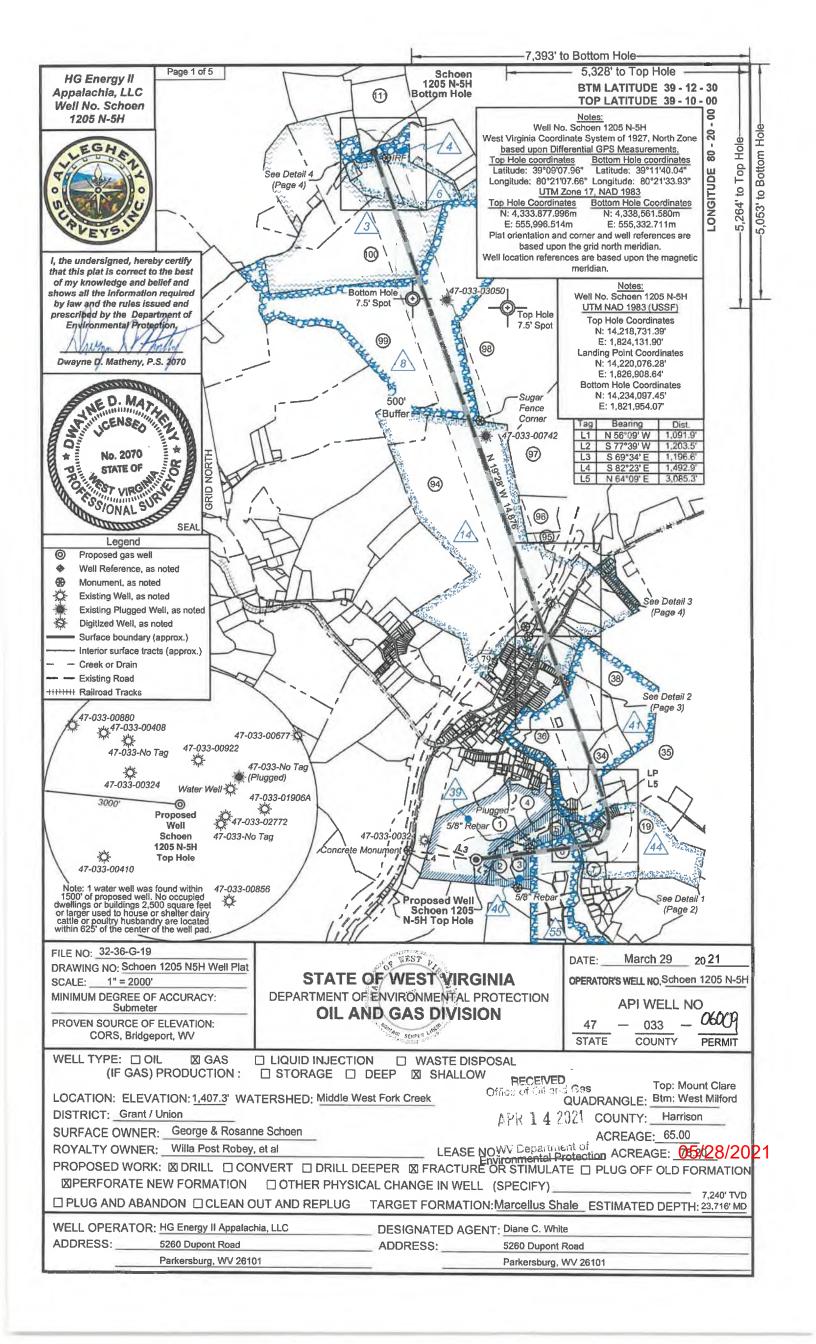
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: March 29 20 21

OPERATOR'S WELL NO. Schoen 1205 N-5H

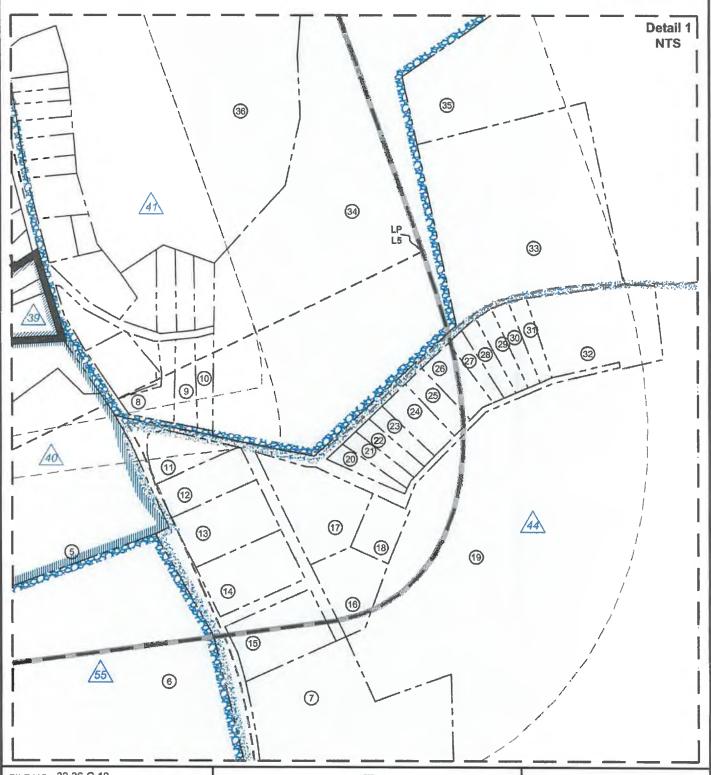
API WELL NO - 033 - 06009

CORS, Bridgeport, WV	3	AN SEMPER LIBE		STATE	COUNTY	PERMIT
	☐ LIQUID INJECTION	☐ WASTE DISPO	SAL			
(IF GAS) PRODUCTION:	□ STORAGE □ DEE		CEIVED		Top: Me	ount Clare
LOCATION: ELEVATION: 1,407.3' WA	TERSHED: Middle West Fo	ork Creek Office of		QUADRANG		est Milford
DISTRICT: Grant / Union		APR	1 4 2021	COUN	TY: Harris	son
SURFACE OWNER: George & Rosann	ne Schoen			ACRE	AGE: 49.6	2 <mark>8/2</mark> 021
ROYALTY OWNER: Willa Post Robey	et al	LEASK DO	partment of Ital Protection	ACI	REAGE: 78	
PROPOSED WORK: ☑ DRILL ☐ CO	NVERT DRILL DEEPE	R X FRACTURE C	OR STIMULATE	E □ PLUG	OFF OLD F	ORMATION
☑PERFORATE NEW FORMATION	☐ OTHER PHYSICAL (CHANGE IN WELL ((SPECIFY)			- 7.040\T)/D
□ PLUG AND ABANDON □ CLEAN C	UT AND REPLUG TAP	RGET FORMATION:	Marcellus Sha	le_ESTIMA	TED DEPT	7,240' TVD H: 23,716' MD
WELL OPERATOR: HG Energy II Appalac	hia, LLC DI	ESIGNATED AGENT	Diane C. White			
ADDRESS: 5260 Dupont Road	AI	DDRESS:	5260 Dupont R	oad		
Parkersburg, WV 2610)1		Parkersburg, W	/V 26101		



Page 2 of 5





FILE NO: 32-36-G-19 March 29 TEST ; 20 21 DRAWING NO: Schoen 1205 N5H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Schoen 1205 N-5H SCALE: 1" = 2000" DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: **API WELL NO** Submeter OIL AND GAS DIVISION 033 -06009 PROVEN SOURCE OF ELEVATION: 47 CORS, Bridgeport, WV STATE COUNTY PERMIT WELL TYPE: OIL X GAS □ LIQUID INJECTION □ LIQUID INJECTION □ WAS TE DIO. STORAGE □ DEEP ☒ SHALLOW RECEIVED Top: Mount Clare

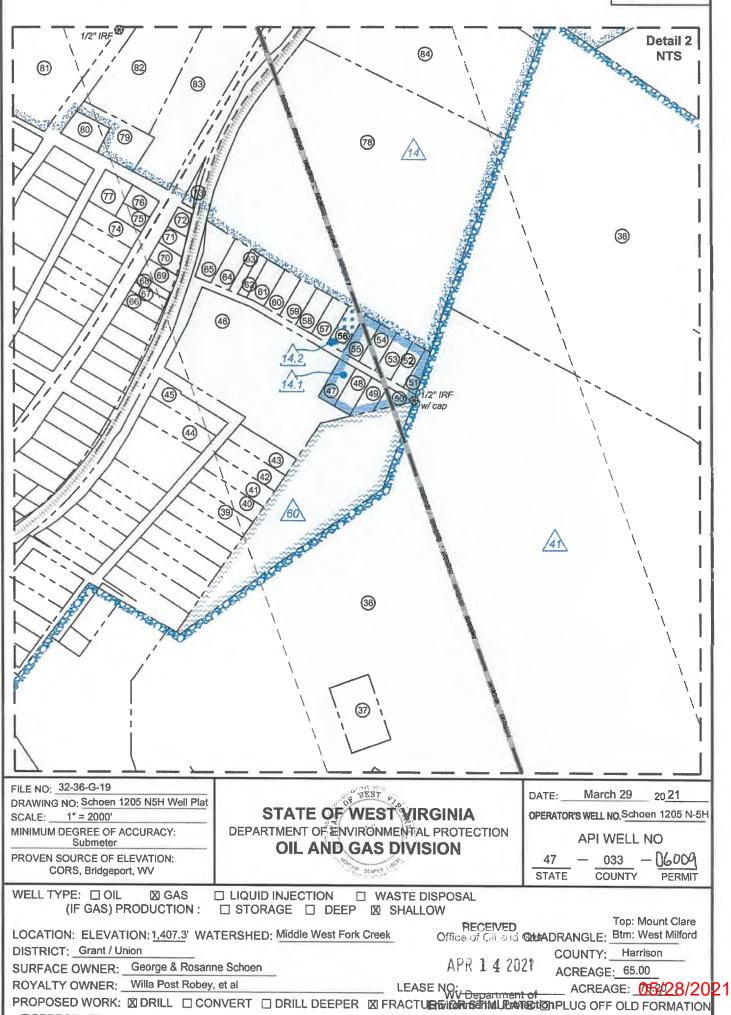
Office of Oil and Gas

QUADRANGLE: Btm: West Milford □ WASTE DISPOSAL (IF GAS) PRODUCTION: LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek DISTRICT: Grant / Union COUNTY: Harrison APR 1 4 2021 SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.00 ROYALTY OWNER: Willa Post Robey, et al

LEA YEVING PARTMENT OF ACREAGE: 05/28/202
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ACREAGE: 05/28/2021 ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,716' MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101

Page 3 of 5





☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)_

TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,716' MD

Parkersburg, WV 26101

5260 Dupont Road

DESIGNATED AGENT: Diane C. White

ADDRESS:

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

5260 Dupont Road

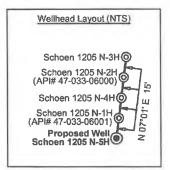
Parkersburg, WV 26101

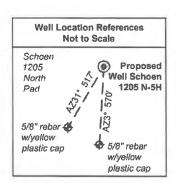
WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS:

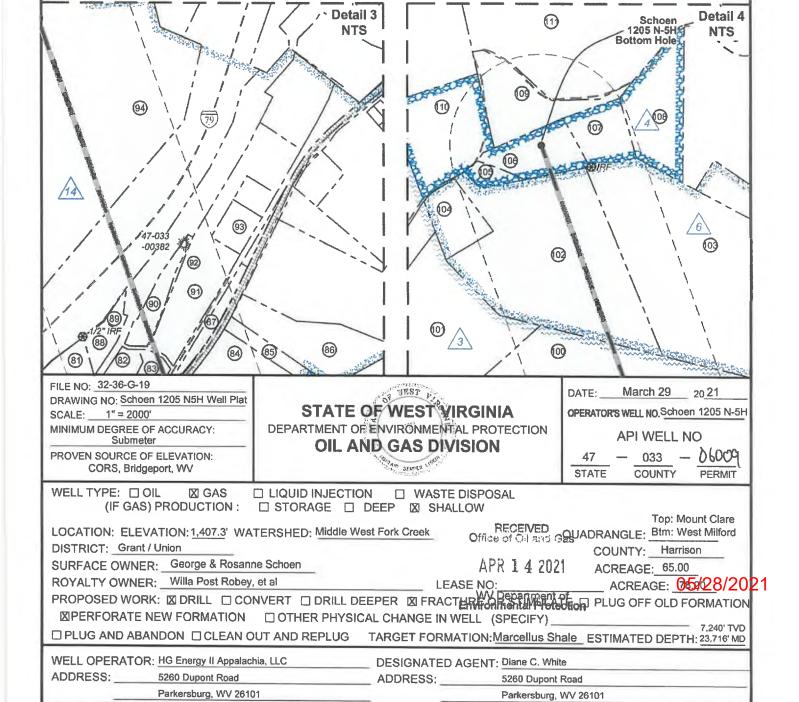
Page 4 of 5







1D	Lease
3	Emory L. Stout, et ux
4	Cassie G. Smith, et ai
6	Edna M. Swisher, et al
8	Porter Maxwell, et al
14	Mollie V. Bassell, et al
14.1	Charles D. Lesson
14.2	Brenda Joyce Cogar, et al
39	Willa Post Robey, et al
40	Charlotte C. Gerlach, et ux
41	D.L. Nulter, et ux
44	Milton S, Davis, et al
55	French S. Young, et ux, et al
60	Betty J. & Isaac H. Maxwell, III





No.	TM / Par	Owner	Bk / Pg	Ac.
57	2103 / 20	Joshua & Harley Miller Cogar	W174 / 683	***
58	2103 / 19	Dennis W. & Rose M. Chamberlain	1335 / 911	***
59	2103 / 18	Dennis W. & Rose M. Chamberlain	1335 / 911	
60	2103 / 17	Jonah E. Cogar	1432 / 493	
61	2103 / 16	Jonah E. Cogar	1432 / 493	
62	2103 / 15.1	Jonah E. Cogar	1432 / 493	
63	2103 / 15	Eugene R. Smith Jr.	1329 / 532	
64	2103 / 14	Eugene R. Smith Jr.	1329 / 532	444
65	2103 / 13	Drexal L. Mullen	W134 / 323	
66	2103 / 51	Judith A. Corkrean	1148 / 474	0.11
67	2103 / 46	Judith A. Corkrean	1148 / 474	***
68	2103 / 46.1	Judith A. Corkrean	1148 / 474	
69	2103 / 36	Judith A. Corkrean	1148 / 474	
70	2103 / 31	Beverly A. Foster	1096 / 205	***
71	2103 / 12	Beverly A. Foster	1096 / 20	
72	2103/7	Beverly A. Foster	1096 / 205	
73	2103/2	Beverly A. Foster	1096 / 205	
74	2103 / 30	Gregory A. Foster	1404 / 455	
75	2103 / 11	Gregory A. & Beverly A. Foster	1256 / 109	
76	2103/6	Gregory A. & Beverly A. Foster	1256 / 109	
77	2103 / 11.1	Joshua D. Messenger	1492 / 197	0.24
78	427 / 13	Dennis & Rose Chamberlain	1321 / 102	9.25
79	427 / 1.12	Jerry & Myrna Kincaid	1484 / 1045	0.30
80	2103/1	Jerry & Myrna Kincaid	1484 / 1045	0.19
81	427 / 1.6	Michel M. Lewis	1598 / 301	2.45
82	427 / 1.7	Apostolic Christian	1598 / 301	3.83
83	427 / 1.13	Apostolic Christian	1598 / 296	1.80
84	427 / 14	Debra & David Shriver	1218 / 787	4.19
85	427 / 15	Reid & Vicki Smith	1506 / 332	0.63
86	427 / 16	Reid & Vicy Smith	1336 / 710	4.21
87	427 / 1.10	Charles & Nancy Shock	1299 / 472	0.80
88	427 / 1.5	Michel M. Lewis	1444 / 142	0.76
89	427 / 1.4	Walter & David Nutter	0.25	0.25
90	427 / 1.8	Apostolic Christian	1466 / 825	1.41
91	427 / 1.9	Charles & Nancy Shock	1368 / 201	5.96
92	427 / 1.14	Apostotic Christian	1596 / 475	0.15
93	427 / 1.2	Mary Jane Lewis	1452 / 1191	1.00
94	427 / 1	Walter E. Nutter & David H. Nutter	154 / 301	228.20
95	427 / 3	Walter Nutter	W154 / 301	8.00
96	427 / 48	Walter E. & David H. Nutter	W154 / 301	33.00
97	427 / 61	Walter E. & David H. Nutter	W154 / 301	116.16
98	407 / 25	Richard D. Mendez	W168 / 424	192,71
99		Isaac H. III & Betty Jean Maxwell	1509/934	255.20
100		James Stout	W161 / 306	43.50
101		Mildred Stout	1138 / 993	44.80
102		Danny Haggerty	1362 / 278	17.06
103		Danny Haggerty	1362 / 278	19.00
104		Danny E. Jr. & Lisa A. Haggerty	1497 / 995	2.02
105	-		1496 / 1170	0.58
106		Leonard C. Paugh	1524 / 1195	2.56
107		Leonard C. Paugh	1524 / 1195	2.12
108		Danny E. & Debra D. Haggerty	1061 / 11	4.00
109		Angela Renee Ricketts	1393 / 362	4.75
110		Angela Renee Ricketts	1408 / 44	4.50
111	386 / 127	Sherry Louise Ricketts	916 / 343	40.75

No TM / Par

OF SEST DRAWING NO: Schoen 1205 N5H Well Plat STATE OF WEST VIRGINIA 1" = 2000" SCALE: DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY:
Submeter OIL AND GAS DIVISION PROVEN SOURCE OF ELEVATION: Syday Sheer Land

CORS, Bridgeport, WV

March 29 DATE: 20 21 OPERATOR'S WELL NO. Schoen 1205 N-5H

API WELL NO

47 033 - 06069 STATE COUNTY

WELL TYPE: □ OIL ☑ GAS □ LIQUID INJECTION □ WASTE DISPOSAL (IF GAS) PRODUCTION : □ STORAGE □ DEEP ☑ SHALLOW	
LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek DISTRICT: Grant / Union COUNTY: Harrison	re rd
ADD 1 4 2024 COUNTY: Harrison	
ROYALTY OWNER: Willa Post Robey, et al	202
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OF SHIP LUG OFF OLD FORMA	ION
☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)	TVD
□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,710	MD
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Dlane C. White	
ADDRESS:5260	_

900 903 1136 51 51 52 1522 1524 1524 1600 WVSOS 1108 1110 1100 WVSOS 1405 1136 51 51 51 51 51 51 51 51 51 51 51 51 51	PAGE	940	697	179	250	795	362	33	491	1235	125	942	692		581	1295	569	674	890	1100		314	74	297	179	250	795	362	33	491	1235	125	942	692		581	1295
	DEED BOOK	CCO	206	903	1136	51	58	1522	1524	1543	1576	1584	1600	WVSOS	1601	1621	1108	1140	1110	1200	WVSOS	1495	1671	147	903	1136	51	58	1522	1524	1543	1576	1584	1600	WVSOS	1601	1621

WW-6A1 (5/13) Operator's Well No. Schoen 1205 N-5H

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

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

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

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

See Attached Sheets

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

Well Operator:	HG Energy II Ap	palachia, LLC		
By:	Diane White	Diane W	hite	
Its:	Accountant			
	RECE Office of C	E IVED Dil and Gas	05/28/2 Page 1 of	:021
	APR 1	4 2021		
	WW Dens	ertment of		

WV Department of Environmental Protection

-

RECEIVED Office of Oil and Gas

APR 1 4 2021

		1		MILTON S. DAVIS AND MARY I. DAVIS	OLANDUS WEST WW Department of	NOT LESS THAN 1/8	156	7.
				OLANDUS WEST	JNO. J. P. O'BRIEN Environmental Protection	ASSIGNMENT	155	40
		12- 0447-0006-0000		JNO. J. P. O'BRIEN	GRASSELLI CHEMICAL COMPANY	ASSIGNMENT	158	49
		13-0447-0006-0001		GRASSELLI CHEMICAL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	381	16
		13-2105-0056-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	17
		13- 2105-0057-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
		13-2105-0058-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
		13-2105-0060-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
		13-2105-0061-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3
		13-2105-0063-0000		BOWINION THANSWISSION, INC.	CONTROL CONTINUE LEG	FIRST AMENDMENT TO MEMORANDUM OF		
44	LC043728	13-2105-0064-0000	Q100789000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49
		13-2105-0065-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	123
		13-2105-0067-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	12
		13-2105-0069-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
		13-2105-0071-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
		13-2105-0073-0000,		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		13-2105-0118-0000 THRU 13-		DOMINION TRANSMISSION, INC.	DOWNTON ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF		
		2105-0122-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
		p/o 12-0427-0028-0000		DOMINION ENERGY TRANSIVISSION, INC.	ITO ENERGY ITAL PADACITIA, LEC	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
		42.0407.0007.000		D. L. NUTTER AND MARGARET R. NUTTER, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	121	17
		12-0427-0027-0000 12-0427-0033-0000			HOPE NATURAL GAS COMPANY	ASSIGNMENT	204	40
		12-0427-0033-0001		SOUTH PENN OIL COMPANY HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	17
	6	12- 0427-0034-0000 13-2105-0001-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS STATE CONFORMATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
	7. 14	13-2105-0002-0000		CONSOLIDATED GAS SOFFET CORFORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
		13-2105-0002-0001			DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
		13-2105-0002-0002 13-2105-0004-0000 THRU		CNG TRANSMISSION CORPORATION	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3
		13-2105-0012-0000		DOMINION TRANSMISSION, INC.	CNX GAS CONFANT LLC	FIRST AMENDMENT TO MEMORANDUM OF	, APAL	
		13-2105-0021-0000 THRU		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49
		13-2105-0023-0000		DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	1543	123
41	LC008511	13-2105-0041-0000 THRU 13-2105-0055-000	Q100304000	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	12
	10000541	13-2105-0046-0001		DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
		13-2105-0116-0000 13-2105-0117-0000		CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
		13-2103-0117-0000		NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		13-2103-0141-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	111002	
		13-2103-0148-0000 13-2103-0162-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
		13-2103-0162-0000		DOMINION ENERGY TRANSIVISSION, INC.	ING ENERGY II APPALACHIA, LEC	I ANMOOT AGREEMENT	1001	
		13-2103-0176-0001 13-2103-0176-0002						
	9	13-2103-0174-0000 13-2103-0175-0000				THIRD AMENDMENT TO MEMORANDUM OF		
		13-2103-0173-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
			7	MOLLIE V. BASSEL, WIDOW; WALTER D. NUTTER AND DORA H.				
				NUTTER, HIS WIFE; DAVID H. NUTTER; BENJAMIN L. NUTTE;, F. F. EARP				
				AND HETTIE EARP, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	780	58
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	17
	N .			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3
14	LC066783	12-0427-0001-0000 et al	Q100886000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	123
-TOPPOS	1 1000/65	12 0-27 0001-0000 ct ai	Q2000000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	12
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69

		1 1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		1				SECOND AMENDMENT TO MEMORANDUM OF		
	N .	1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	5
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	125
14.1	HGII01531	13-2013-0022-0000	HGII01531	CHARLES D LEESON	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1709	129
14.3	HGII01529	13-2013-0023-0000	HGII01529	CHARLES D LEESON	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1709	129
14.4	HGII01534	13-2013-0024-0000	HGII01534	CHARLES D LEESON	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1709	129
14,5	HGII01537	13-2013-0041-0000	HGII01537	CHARLES D LEESON	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1709	129
14.5	HGII01536	13-2013-0040-0000	HGII01536	CHARLES D LEESON	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1709	130
14.2	HGII01541	13-2013-0021-0000	HGII01514	BRENDA JOYCE COGAR, ET AL	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1709	3:
27.6	TIGHTED IN	22 2020 0012 0000	112/12/2	PORTER MAXWELL AND BERTHA B. MAXWELL, HUSBAND AND WIFE,				
				AND W. BRENT MAXWELL AND LILLIE J. MAXWELL, HUSBAND AND				
		1		WIFE	JOHN C. CHIDESTER	NOT LESS THAN 1/8	175	45
		1		JOHN CHIDESTER	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	UNRECORDED	
	ř	12-0406-0021-0000		THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	236	11
		12-0406-0021-0001		PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	504	35
	XII	12-0406-0021-0002		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	17
		12-0406-0021-0003		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	2.5
	Y)	12-0406-0021-0004		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
	1	12-0406-0021-0005		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
	0	12-0406-0021-0006		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	3
8	LC052223	12-0406-0021-0007	Q101129000			FIRST AMENDMENT TO MEMORANDUM OF		
		12-0406-0021-0008		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49
	3	12-0406-0025-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	123
	N. Control of the Con	12-0406-0028-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT .	1576	12
		and		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
		12-406A-0001-0000 through		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
	4	12-406A-0041-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	S.					SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
						THIRD AMENDMENT TO MEMORANDUM OF		
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
	H			EMORY L. STOUT AND ELZIA P. STOUT, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	985	S
	8			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
	N .	1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3
		1 1				FIRST AMENDMENT TO MEMORANDUM OF		
	A CONTRACTOR	12-0406-0010-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49
	1.0074205	12-0406-0011-0000	0100500000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	123
3	LC071305	12-0406-0012-0001	Q100508000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	1.2
		12-0406-0027-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		1				SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
Access to the last				EDNA M. SWISHER, WIDOW; CLARA VAN HORN, WIDOW; ROBERT M.				
	7			MILEY AND RUTH MILEY, HIS WIFE; AND G. CHESTER MILEY AND	RECEIVED			
		1 1		GLADYS MILEY, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION OF Oil and	TRICT LECC TUAN 1/0	988	22

		1 1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
	3			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
	l.			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	795 362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
19 - 103						FIRST AMENDMENT TO MEMORANDUM OF		
		12-0406-0015-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
6	LC071374	12-0406-0015-0001	Q100581000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
1		p/o 12-0406-0025-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
		12-0407-0002-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
The Walter				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
-10.11						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
41 1 1		1				THIRD AMENDMENT TO MEMORANDUM OF	3520	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1637	1081
				CASSIE G. SMITH, WIDOW; AND NANCY L. HARDY, DIVORCED	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	996	9
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795 362
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
						FIRST AMENDMENT TO MEMORANDUM OF	1.0000	
-		12-0406-0013-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
		12-0406-0013-0001	0455744050	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
4	LC071721	12-0406-0013-0002	Q100711000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
		12-0406-0013-0003		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		12-0406-0014-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
EVILLA STATE		1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		1 1				SECOND AMENDMENT TO MEMORANDUM OF		
	N .			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
Market Village						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
60	N/A	p/o 12-0427-0033-0000	N/A	ISAAC H. MAXWELL III & BETTY J MAXWELL	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1707	883

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

March 30, 2021

Kelly Kees WV DEP Division of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Drilling Under Roads - Schoen 1205 N-5H

Grant District, Harrison County

West Virginia

Dear Ms. Kees -

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Schoen 1205 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the Schoen 1205 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

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

Date of Notic	ee Certification: 02/15/2021		PI No. 47	- <u>033 - (</u> Well No. School	06009 HGA	
			-	lame: Schoen		
Notice has b	neen given:	Y	ven rau N	iame. Schoen	veli rau	
Pursuant to th	tract of land as follows:	-6A, the Operator has provid	ded the req	uired parties w	ith the Notice Forms listed	ı
State:	West Virginia	TITMANAD 02 F	Easting:	555996.5		
County:	Harrison		Northing:	4333878.0		_
District:	Grant	Public Road Acces		McWhorter Road		_
Quadrangle:	Mount Clare	Generally used farm	n name:	Schoen		
Watershed:	Middle West Fork Creek					
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shall ed the owners of the surface described equired by subsections (b) and (c), section surface owner notice of entry to survey of subsection (b), section sixteen of this escape 22-6A-11(b), the applicant shall tended have been completed by the applicant.	in subdivisions (1), (2) and n sixteen of this article; (ii) pursuant to subsection (a) is article were waived in w	d (4), substhat the reconstruction to the contraction of the contracti	ection (b), sec quirement was en of this artic the surface ow	tion ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice mer; and Pursuant to Wes	e t e t
Pursuant to that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required pa	or has attached proof to thing the string of	s Notice C	ertification	10.0	
*PLEASE CHE	ECK ALL THAT APPLY				OOG OFFICE USE ONLY	
□ 1. NO	TICE OF SEISMIC ACTIVITY or SE	NOTICE NOT REQUIRE			☐ RECEIVED/ NOT REQUIRED	
☐ 2. NO	TICE OF ENTRY FOR PLAT SURVEY	or NO PLAT SURVEY	Y WAS CO	ONDUCTED	☐ RECEIVED	
■ 3. NO	NO	NOTICE NOT REQUIRE OTICE OF ENTRY FOR PI AS CONDUCTED or			□ RECEIVED/ NOT REQUIRED	
		WRITTEN WAIVER .B' (PLEASE ATTACH)	Y SURFA	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED	
■ 5. PUE	BLIC NOTICE				☐ RECEIVED	
■ 6. NO	TICE OF APPLICATION				☐ RECEIVED	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. 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.

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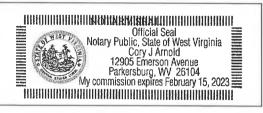
Certification of Notice is hereby given:

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

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 15th day of February, 2021

Notary Public My Commission Expires 2 15-2073

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.

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WW-6A (9-13) API NO. 47-_____
OPERATOR WELL NO. Schoon 1205 N-1H to S-47th
Well Pad Name: Schoon 1205

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: 11.23.20 Date Permit Application Filed: 11/25/ Notice of:	20
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	ROVAL FOR THE N IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10(b)
	DD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursuar operator or lessee, in the event the tract of land on which the well promore coal seams; (4) The owners of record of the surface tract or trace well work, if the surface tract is to be used for the placement, construint impoundment or pit as described in section nine of this article; (5) As have a water well, spring or water supply source located within one to provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section expression of this article to the contrary, notice to a lien holder is not a	r signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of the ted; (2) The owners of record of the surface tract or tracts overlying the other than the surface tract is to be used for roads or other land disturbance as not to subsection (c), section seven of this article; (3) The coal owner, oposed to be drilled is located [sic] is known to be underlain by one or cits overlying the oil and gas leasehold being developed by the proposed action, enlargement, alteration, repair, removal or abandonment of any my surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the elemants in common or other co-owners of interests described in the may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:
_	COAL OWNER OR LESSEE
Name: George & Rosanne Schoen Address: PO Box 158	Name: Address:
Lost Creek, WV 26385	Audiess.
	☐ COAL OPERATOR Name:
1	Address:
☐ SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name: Thomas Young	SURFACE OWNER OF WATER WELL
Address: 4856 SW 95th	AND/OR WATER PURVEYOR(s)
Gainesville, FL 32608	Name: Vera & Oral Haught Address: 400 Justice Avenue
Name: Joseph Queen	Address: 400 Justice Avenue Logan, WV 25601
Address: P. O. Box 531 Lost Creek, WV 26385	7 OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Renald Waldren
Name:	Address: 925 White Oaks Blvd
Address:	Bridgeport, WV 26330
	*Please attach additional forms if necessary
-	

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05/28/2021

WV Department of Environmental Protection

WW-6A (8-13)

API NO. 47- 03 06009
OPERATOR WELL NO. Schoen 1205 N-1H ID S-10H
Well Pad Name: Schoen 1205

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Timothy P Roush
5260 Dupont Road, Parkersburg, WV 26101
My Commission Expires April 26, 2025

Subscribed and sworn before me this 1st day of september 2020

Notary Public

My Commission Expires

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Schoen 1205 S-7H

WW-6A (8-13) Page 1 Continued

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

Marilyn Gaines 1191 McWhorter Road Lost Creek, WV 26385

Keith & Diana Bramel 124 Tree Frog Lane Lost Creek, WV 26385

Stephen & Kimberly Goff 412 Hill Top Drive Lost Creek, WV 26385

Surface Owner (s) (Road and/or Other Disturbance)

Charles and Franklin Sutton 801 Worthington Drive Bridgeport, WV 26330

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470330600

OPERATOR WELL NO. Schoen 1205 N-1H to S-10H

Well Pad Name: Schoen 1205

Notice is hereby given:

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

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control

Pursuant to W. Va. Code § 22-6A-10(t), 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 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 secretary for the purpose of filing the comments, notice 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 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 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 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 secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the comments and obtaining the secretary for the purpose of filing the se

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 of 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/oiland-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13) API NO. 47- 033 - 06009 OPERATOR WELL NO. Schoen 1205 N-1H to S-10H

Well Pad Name: Schoen 1205

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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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

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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.

API NO. 47- 033 - 06009
OPERATOR WELL NO. Schoen 1205 N-11-110 S-101-1

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.

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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.

Notice Time H Date of Notice	equirement: Notice shall be provided at le	east TEN (10) days prior to filing a it Application Filed: 01/11/2021	permit application.
Delivery meth	od pursuant to West Virginia Code § 22-	-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVER		ESTED	
receipt request drilling a horiz of this subsect subsection may	Va. Code § 22-6A-16(b), at least ten days ed or hand delivery, give the surface owner ontal well: <i>Provided</i> , That notice given pron as of the date the notice was provided to be waived in writing by the surface owner, facsimile number and electronic mail add	r notice of its intent to enter upon the ursuant to subsection (a), section to the surface owner: <i>Provided</i> , hower. The notice, if required, shall include.	the surface owner's land for the purpose of en of this article satisfies the requirements overer, That the notice requirements of this ude the name, address, telephone number,
Notice is her	eby provided to the SURFACE OWN	VER(s):	
.,	& Rosanne Schoen	Name:	
Address: PO Bo		Address:	
Lost C	eek, WV 26385		
the surface ow State: County: District:	ner's land for the purpose of drilling a hori: West Virginia Harrison Grant	zontal well on the tract of land as for the UTM NAD 83 Public Road Access: Easting: Northing:	555986.976 4333800.330 McWhorter Road / SR19
Quadrangle:	Mount Clare	Generally used farm name:	Schoen
Watershed:	Middle West Fork Creek		
Watershed: This Notice of Pursuant to Watershall numericated to hori	Shall Include: Vest Virginia Code § 22-6A-16(b), this nober and electronic mail address of the optontal drilling may be obtained from the Softh Street, SE, Charleston, WV 25304 (30)	erator and the operator's authoriz Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters,
Watershed: This Notice of Pursuant to Watershed numerical related to horillocated at 601	Shall Include: Vest Virginia Code § 22-6A-16(b), this notes that the specific contains and electronic mail address of the option to the state of the specific contains and the	erator and the operator's authoriz Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters,
Watershed: This Notice of Pursuant to Watershed numerical related to horillocated at 601	Shall Include: Vest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the option that drilling may be obtained from the S57th Street, SE, Charleston, WV 25304 (300) teby given by:	erator and the operator's authoriz Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Watershed: This Notice of Pursuant to Watershed to horilocated at 601 Notice is her	Shall Include: Vest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the option that drilling may be obtained from the S57th Street, SE, Charleston, WV 25304 (300) teby given by:	erator and the operator's authoriz Secretary, at the WV Department of 14-926-0450) or by visiting <u>www.de</u>	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Watershed: This Notice of Pursuant to We facsimile num related to horilocated at 601 Notice is her Well Operator	Shall Include: Yest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the option and drilling may be obtained from the Street, SE, Charleston, WV 25304 (30) The Boundary of Appalachia, LLC	erator and the operator's authoriz Secretary, at the WV Department of 14-926-0450) or by visiting www.de Authorized Representative:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White
Watershed: This Notice of Pursuant to We facsimile num related to horilocated at 601 Notice is her Well Operator	Shall Include: Yest Virginia Code § 22-6A-16(b), this nober and electronic mail address of the option of the Street, SE, Charleston, WV 25304 (30) The Energy II Appalachia, LLC 5260 Dupont Road	erator and the operator's authoriz Secretary, at the WV Department of 14-926-0450) or by visiting www.de Authorized Representative:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White 5260 Dupont Road
Watershed: This Notice of Pursuant to Watersmile numericated to horilocated at 601 Notice is her Well Operator Address:	Shall Include: Vest Virginia Code § 22-6A-16(b), this nober and electronic mail address of the option of the Street, SE, Charleston, WV 25304 (30 eby given by: HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101	erator and the operator's authorize Secretary, at the WV Department of 14-926-0450) or by visiting www.de Authorized Representative: Address:	ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Diane White 5260 Dupont Road Parkersburg, WV 26101

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.

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WW-6A5 (1/12)

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

Notice Time Re Date of Notice:	quirement: notice shall be provided no lat 12/29/2020 Date Permit Appli	er than the filing ocation Filed: 01/11	date of permit :	application.
Delivery metho	d pursuant to West Virginia Code § 22-6	6A-16(c)		
CERTIFIE RETURN		AND ELIVERY		
return receipt rec the planned ope required to be pr drilling of a hor damages to the s	Va. Code § 22-6A-16(c), no later than the quested or hand delivery, give the surface of the aration. The notice required by this subservoided by subsection (b), section ten of the rizontal well; and (3) A proposed surface surface affected by oil and gas operations to required by this section shall be given to the	owner whose land ection shall include is article to a surfa- use and compens to the extent the da	will be used fo le: (1) A copy ace owner whose ation agreement mages are comp	r the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
(at the address line) Name: George Address: PO Box	y provided to the SURFACE OWNER(s) isted in the records of the sheriff at the time & Rosanne Schoen 158 ek, WV 26385		:	
operation on the State: W. County: H. District: G. Quadrangle: M.	y given: st Virginia Code § 22-6A-16(c), notice is he e surface owner's land for the purpose of de Vest Virginia Harrison Grant Hount Clare 7.5' Hiddle West Fork Creek	rilling a horizonta UTM NAD 8 Public Road A	I well on the tra Easting: Northing:	well operator has developed a planned ct of land as follows: 555986.976 4333800.330 McWhorter Road / SR 19 Schoen
to be provided horizontal well; surface affected information rela	st Virginia Code § 22-6A-16(c), this notice by W. Va. Code § 22-6A-10(b) to a surfand (3) A proposed surface use and complet by oil and gas operations to the extent thated to horizontal drilling may be obtained ocated at 601 57th Street, SE, Charleston	face owner whose ensation agreement the damages are condition to from the Secret	e land will be un nt containing an empensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a coffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

September 3, 2020

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

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

Subject: DOH Permit for the Schoen 1205 Pad, Harrison County Schoen N-5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2020-0615 which has been issued to HG Energy LLC for access to the State Road for a well site located off Harrison County Route 25 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Jerod Duelley
HG Energy LLC
CH, OM, D-4

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HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Schoen 1205 Well Pad (N-1H to S-10H)

Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
DIO CELITI 2000	WIIACUTC	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	

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HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Schoen 1205 Well Pad (N-1H to S-10H)

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		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
BIO CLEAR 2000	IVIIALUIE	10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
THOUSE THE TENER OF THE TENER O	Mixedie	107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
L I/O - LIOM - TOS-IA	iviixture	68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Schoen 1205 Well Pad (N-1H to S-10H)

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

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CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1205 WELL PAD

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

CONSTRUCTION SEQUENCE

- 1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call. West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.
- 2. Site access. This is the first land-disturbance activity to take place at the site and should provide BMPs to milminize accelerated exosion 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 perimeter BMPs after the
- Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.
- Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- Construction of Buildings, Utilities, and Paving During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- Final Stabilization, Topsolling, Trees and Shrubs After construction is completed, install stabilization BMPs including: permanent seeding, mulching and fiprap, 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.

GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA



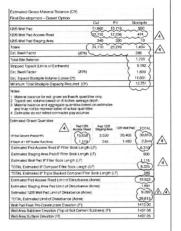
HG ENERGY II APPALACHIA, LLC

G ENERGY II APPALACHIA, LLC

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

PENN ENVIRONMENTAL & REMEDIATION, INC.

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



S-8H	N 39.1514813 WELL FLEVATION	W 80.352075
S-9H	N 39.1515630 N 39.1515222	W 80.352062
S-7H S-10H	N 39.1516039 N 39.1515630	W 80.352055 W 80.352062
S-6H	N 39.1516447	W 80.352048
N-5H	N 39.1523047	W 80.351894
N-1H	N 39.1523457	W 80.351889
N-4H	N 39.1523867	W 80.351883
N-2H	N 39.1524277	W 80.351878:
N-3H	N 39.1524686	W 80.351872

							LATITUDE		LONGITUDE
1205	WELL	PAD	ACCESS	ROAD	ENTRANCE	N	39.1340433	W	80.3760995*

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
INTERSTATE 79 RIGHT OF WAY	N/A	N/A	0.704
FRANKLIN L. SUTTON	17-12-0466-0014-0002	39.4314	0.498
CHARLES R. SUTTON	17-12-0466-0015-0000	11,3466	0.532
FRANKLIN L. SUTTON	17-12-0466-0016-0000	22.3733	1.391
CHARLES R. SUTTON	17-12-0466-0017-0000	37.5166	3.008
FRANKLIN L. SUTTON	17-12-0446-0047-0000	25.9586	1.399
CHARLES R. SUTTON	17-12-0446-0048-0000	86.5040	3.008
CHARLES R. SUTTON	17-12-0466-0019-0000	62.7575	0.604
JOSEPH C. QUEEN	17-12-0447-0043-0001	16.9336	2,145
JOSEPH C. QUEEN	17-12-0447-0032-0000	35.5669	2.162
THOMAS K. YOUNG	17-12-0446-0029-0000	73.275	6.570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2564	7.792
TOTAL LIMIT	OF DISTURBANCE		29.813 A



IS DRAWNO IS COPPRINTING. THIS DRAWNO IS A TRUCE SCORE! AND OUT ENTROPICE TO THE CENTER FOR HIS PERSONAL LICE, WHINDER THE SOADS WRITTEN CONSIDER OF THEM ENVIRONMENTAL REPURSITION, HE, I HAVE FOR IT IS COPED FOR MOOK AND WALKER TO THIS PROVIDENCE, INCLOSE HE PARTER FOR WHICH HE IS REPORTED FOR CONSTRUCT OF A COURT FOR LEDGL. ACTION, THIS WHIND MATER ENTRIESED OF PROJECTS OF THE COOPERATION.

DMSR ## DMSR ## ## ## DMSR ## DMSR ## LECT CASE ## LECT CASE



TITLE SHEET HG 1205 PAD GRANT DISTRICT HARRISON COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

WEST VIRGINIA

YOU DIG!

Dial 811 or 800.245.4848 DRAWN MFR 03/24/2
PROJECT No. 4000-PA003
DRAWING NUMBER
PA007916-001



SERVICE UTILITY LINES AND ROT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE
RESPONDED E FOR LOCATING, MARITANING, AND REPLACING AS INCESSARY TO ENSURE CONTINUAL SERVICE.

