

west virginia department of environmental protection

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

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

Tuesday, February 9, 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 S-8H 47-033-06002-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 2/9/2021

Promoting a healthy environment.

API Number:

### PERMIT CONDITIONS

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

#### CONDITIONS

- 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: \_\_\_\_\_ 4703306002

## **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.

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API NO. 47-33 06002 - H64

OPERATOR WELL NO. Schoen 1205 S-8H Well Pad Name: Schoen 1205

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

1) Well Operator:	HG Energy I	I Appalachia	, 494519932	Harrison	Grant	Mount Clare 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's Well	Number: Sch	oen 1205 S-	BH Well F	ad Name: Scho	oen 1205	
3) Farm Name/Sur	face Owner: _	George Scho	en Public R	oad Access: M	cWhorter R	Road / SR25
4) Elevation, curre	nt ground:	1410'	Elevation, propose	d post-construc	tion: <u>1407'</u>	
5) Well Type (a)	Gas <u>x</u>	Oil	Ur	nderground Stor	age	
Ot	her				<u> </u>	
(b)	)If Gas Shal		Deep	······		5Dw 1125/2020
6) Existing Pad: Y		zontal <u>×</u>				1125/201
, -		Denth(s) An	ticipated Thicknes	 s and Exnected `	Pressure(s):	
			s. Anticipated pres			
8) Proposed Total	Vertical Depth	n: 7240'				
9) Formation at To			lus			
10) Proposed Tota	l Measured De	pth: 24,801	1			
11) Proposed Hori	zontal Leg Lei	ngth: 17,107	· · ·			
12) Approximate I	Fresh Water St	rata Depths:	135', 480', 64	0', 728'		
13) Method to Det	ermine Fresh	Water Depths:	Nearest offset v	vell data		
14) Approximate	Saltwater Dept	hs: 1730, 17	780, 2010			
15) Approximate	Coal Seam Dej	oths: 501, 65	0', 730', 736' (Sur	face casing is b	eing extend	led to cover the coal)
16) Approximate	Depth to Possi	ble Void (coal	mine, karst, other)	: None		
17) Does Proposed directly overlying				N	ι <sub>ο</sub> Χ	
(a) If Yes, provid	de Mine Info:	Name:				
		Depth:		Frank States		
		Seam:				
		Owner:	RECEIVED ce of Oil and Gas			
			AN 06 2021			
		W Envir	V Department of onmental Protection			Page 1 of 3

## APINO. 4-703306002

OPERATOR WELL NO. Schoen 1205 S-8H Well Pad Name: Schoen 1205

WW-6B (04/15)

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#### 18)

### CASING AND TUBING PROGRAM

<u>Size</u> (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> <u>(lb/ft)</u>	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> <u>(Cu. Ft.)/CTS</u>	
30"	New	LS	157.5	120'	120'	Drilled In	
20"	NEW	J-55	94	1200'	1200'	40% excess,CTS	
13 3/8"	NEW	J-55	68	2100'	2100'	40% excess,CTS	
9 5/8"	NEW	J-55	40	2950'	2950'	40% excess tail, CTS	
5 1/2"	NEW	P-110	23	24801'	24801'	20% excess tail, CTS	
l						50w 1125	
	(in) 30" 20" 13 3/8" 9 5/8"	Size (in)         or Used           30"         New           20"         NEW           13 3/8"         NEW           9 5/8"         NEW	Size (in)         or Used         Grade           30"         New         LS           20"         NEW         J-55           13 3/8"         NEW         J-55           9 5/8"         NEW         J-55	Size (in)         or Used         Grade         Weight per n. (lb/ft)           30"         New         LS         157.5           20"         NEW         J-55         94           13 3/8"         NEW         J-55         68           9 5/8"         NEW         J-55         40	Size (in)         or Used         Grade         Weight per n. (lb/ft)         POOTAGE.Tor Drilling (ft)           30"         New         LS         157.5         120'           20"         NEW         J-55         94         1200'           13 3/8"         NEW         J-55         68         2100'           9 5/8"         NEW         J-55         40         2950'	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

ТҮРЕ	<u>Size (in)</u>	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (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	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tail 0% Excess Lea +
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94.0 +
Tubing							
Liners							

#### PACKERS

Kind:		
Sizes:		
Depths Set:		

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

OPERATOR WELL NO. <u>Schoen 1205 S-8H</u> Well Pad Name: <u>Schoen 1205</u>

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 17,107' lateral length, 24,801' 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 contralizers will be used with conductor casing. Freshwater - centralized every 3 joints to surface. Coal - Bow Spring on overy joint, will also be running ACP for isolating storage zone Intermediate - Bow Spring on first 2 joints then every titled joint to 100 from surface. Provinction - Run i avring clenzizzer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5° long joint to the top of the curve

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

Conductor -N/A, Casing to be drilled in wi Dusi Rotary Rig. Frash Water - 15.8 ppg PhE-1 + 3% bwoc CaCl, 40% Excess Yield = 1.20, CTS Intermediate 1 - Lead: 15.4 ppg PhE-1 + 2.2% bwoc CaClA% Excess 1 Tai: 15.9 ppg PhE-1 + 2.5% bwoc CaCl zero% Excess. CTS\* Intermediate 2 - Lead: 15.4 ppg PhE-1 + 2.5% bwoc CaClA% Excess 1 Tai: 15.9 ppg PhE-1 + 2.5% bwoc CaCl zero% Excess. CTS\* Intermediate 2 - Lead: 15.4 ppg PhE-1 + 2.5% bwoc CaClA% Excess 1 Tai: 15.9 ppg PhE-1 + 2.5% bwoc CaCl zero% Excess. CTS\* Intermediate 2 - Lead: 15.4 ppg PhE-1 + 2.5% bwoc CaClA% Excess. Tai: 15.9 ppg PhE-1 + 2.5% bwoc CaCl zero% Excess. CTS\* Production - Lead: 15.4 ppg PhE-1 + 2.5% bwoc CaClA% Excess. Tai: 15.9 ppg PhE-1 + 2.5% bwoc CaCl zero% Excess. CTS\*

#### 25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD. Frash Water - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement. Coal - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement. Intermediate - Once casing is at setting depth, Circulate and and the attinue at TD. Circulate a minimum of one hole volume prior to pumping cement. Intermediate - Once casing is at setting depth, Circulate and attinue at TD. Circulate a minimum of one hole volume prior to pumping cement. Production - Once on bottomTD Whith easing, circulate at max at attawate and pump reasones indicate the hole is dean. Circulate a minimum of one hole volume prior to pumping cement.	
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\*Note: Attach additional sheets as needed.

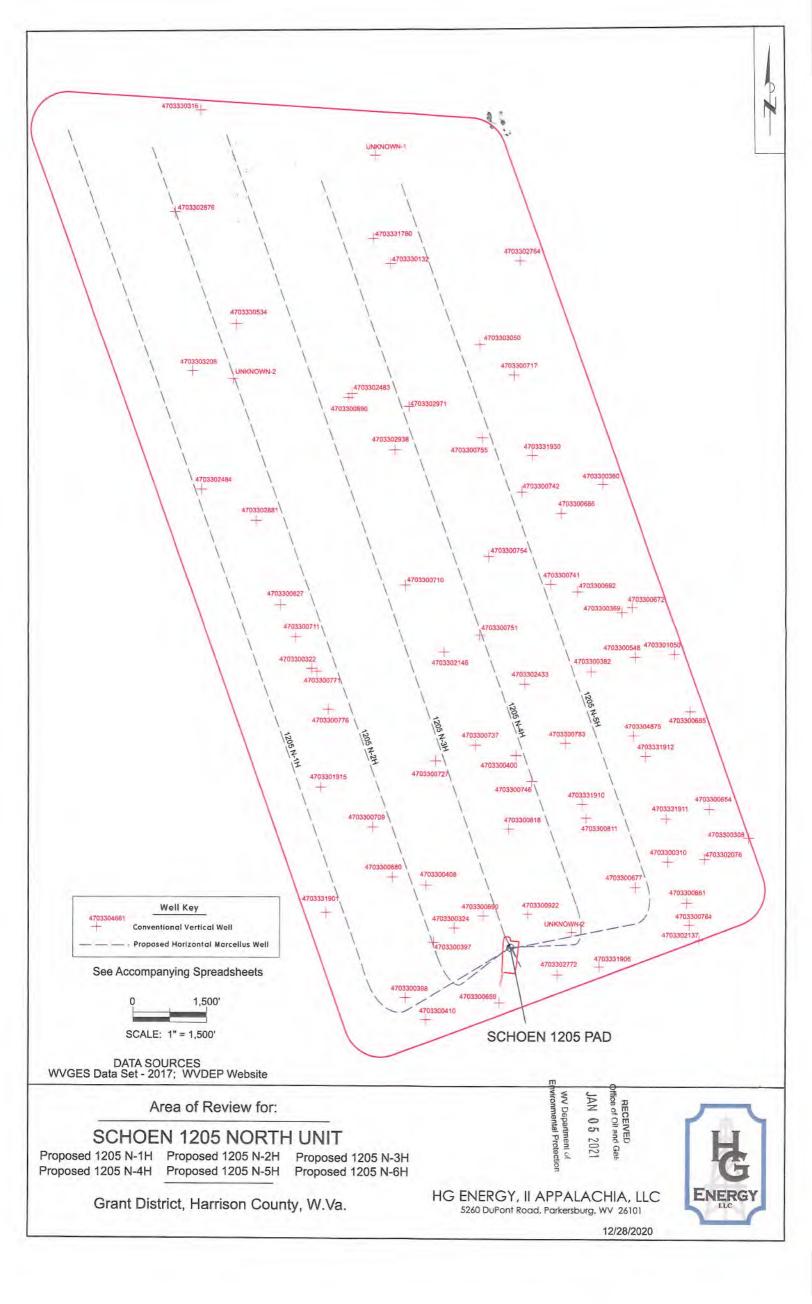
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#### HG Energy II Appalachia, LLC Schoen 1205 Well Pad (N-1H, N-2H, N-3H, N-4H, N-5H, N-6H, S-7H, S-8H, S-9H, S-10H, S-11H) Cement Additives

	e Material Type	Material Description Premium NE-1 is a	CAS #	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1
		early compressive	Calcium oxide	1-5	1305-78-8 1309-48-4
		strength properties.	Magnesium oxide Crystalline silica: Quartz (SiO2)	1-5	1309-48-4 14808-60-7
remium NE-1	Portland Cement		Crystemine since. Querte (CIOE)	Jaci-G.	
		Commonly called gel, it is	Long to Market	la/	CAS number
		a clay material used as a	Ingredient name	%	
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	or Jordania oniour, order (Diote)	19.09	
antonito	Extender	water.			
Bentonite	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	L'ordent groupper		
		of strength development			
alcium Chlorid	de Accelerator				
		Graded (3/8 to 3/4 inch)	Insertion target	l n/	CAS number
		cellophane flakes used as	Ingredient name	%	CAS number
		a lost circulation material.	No hazardous ingredient		
Cello Flake	Lost Circulation	a read an annual a			
		CD 10 ( )			
		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		1.	
		entrapment and			
		preventing foaming			
		tendencies of latex			
0.121	Form Brownster	systems.			
FP-13L	Foam Preventer				
		Used to retard cement	Ingredient name	%	CAS number
Granulated Sug	gar Retarder	returns at surface.	Sucrose	90 - 100	57-50-1
annuared 20	ber neterder	A proprietary product			
		that provides expansive			
		properties and improves			
		bonding at low to	Ingredient name	%	CAS number
		moderate	Calcium magnesium oxide	90 - 100	37247-91-9
200		temperatures.			
EC-1		Multi-purpose polymer			
		additive used to control	Ingredient name	*/2	CAS number
		free fluid, fluid loss,	No hazardous ingredient	78	ona number
	and a second	rheology, and gas			
MPA-170	Gas Migration	migration.			
		A synthetic pozzolan,			
-	Office of Oil and Gas	(primarily Silicon Dioxide).			
	Office of Oil and Gas	When blended with			
	14.11 0.0 0000	cement, Pozzolan can be	Ingredient name	%	CAS number
	JAN 06 2021	used to create	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
	THE REPORT OF THE PARTY	lightweight cement slurries used as either a	Calcium oxide	1-5	1305-78-8
	WV Department of	filler slurry or a sulfate			
Er	WV Department of nvironmental Protection	n resistant completion			
		cement.			
Poz (Fly Ash)	Base				
		A low temperature			
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend			Trade date de
		the slurry thickening time.			
1-3					
1-3	Retarder				I VICTOR TO TAX
R-3	Retarder		Ingredient name	%	CAS number
<b>}-3</b>	Retarder		2-Butoxyethanol	20-30	111-76-2
<b>}-3</b>	Retarder		2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.
1-3	Retarder	Used to water wet casing and formation to facilitate	2-Butoxyethanol	20-30	111-76-2

	RECEIVED fice of Oil and		ENERGY						Marcellus Sha Harrison Co	ounty, WV	
		nt of				1205 \$	S-8H SH	IL .	14	218431.91N 182409	95.14E
round	NV Departmen	tection	1407.3	3'		1205	S-8H LF	P	14	218241.61N 182437	73.81E
Az			159.79	18°		1205 \$	S-8H BH	IL.	14	202192.92N 183027	79.33E
	DIAGRAM	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
								1			
		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" wal thickness
				Fresh Water	0	135, 480, 640, 728		15.6 ppg PNE-1 + 3%	2-10-5	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wa
	×	24"	20" 94# J-55	Coal	730	736	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi
×	×	100		Surface / FW	0	1200		Yield=1.20 / CTS		pumping cement.	burst-2110 par
								Lead: 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting	Law years
			13-3/8" 68#	Little/Big Lime	1467 / 1510	1482 / 1556	a second s	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint	depth, Circulate and condition at TD, Circulate a minimum of one hole	Intermediate casing = 0.480
×	×	17.5"	J-55 BTC	Injun / Gantz (Storage)	1565 / 1900	1690 / 1970	Salt Polymer	ppg PNE-1 + 2.5% bwoc	*will also be running ACP for isolating		wall thickness Burst=3450 psi
x		1. The		Intermediate 1	0	2100		CaCl zero% Excess. CTS	storage zone*	volume prior to pumping cement.	
	×	-		Fifty / Thirty Foot	1993/2112	2093 / 2147	- 1	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 = 0.395
		12.25"	9-5/8" 40# J-55 BTC	5th Sand	2440	2468		ppg PNE-1 + 2.5% bwoc joint to 100	joints then every third joint to 100' form	Circulate a minimum of one hole volume prior to pumping cement.	wall thickness
×	X			Warren	2835	2860			surface		
				Intermediate 2	0	2950					
×	X	1000		Speechley	3028	3162			Run 1 spiral centralizer		
		8.5" Vertical		Bradford	3342	3367	9.0ppg	Lond: 11 E pro	every 5 joints from the		
				Benson	4420	4455	SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to surface.		
				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
×	x		5-1/2"	Middlesex	6740	6870		Tail: 14.8 ppg PNE-1 +	1.	least 2x bottoms up, or until	wall thickness
ñ	<u>n</u>	8.5" Curve	23# P-110 HP	West River	6870	7003	11.5ppg- 12.5ppg	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%	Constanting and	returns and pump pressures indicate the hole	Burst=16240 psi Note:Actual centralizer
			CDC HTQ	Burkett	7003	7048	SOBM	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	is clean. Circulate a minimum of one hole	schedules may be change due to hole conditions
				Tully Limestone	7048	7149		20% Excess	1st 5.5" long joint to the	volume prior to pumping	
		ph		Hamilton	7149	7214	( in the second	Lead Yield=1.19 Tail Yield=1.94	top of the curve.	cement.	
				Marcellus	7214	7315	11.5ppg-	CTS			
		8.5" Lateral		TMD / TVD (Production)	24801	7240	12.5ppg				
×	x			Onondaga	7315	1	SOBM	A	-		
		X	X	X	X	-	X	X	X	X	X
		40' TVD / 7694' MD			8.5" Hole - Cemente 5-1/2" 23# P-110 H		1		+/-171	07' ft Lateral	TD @ +/-7240' TVD +/-24801' MD
	<	X	Х	X	X	. oboting	x	Х	X	. X	X=centralizers



			COUDEN	EXISTING WELLS LOCATED WIT			4 5 6 5 6			
ст	API	COUNTY	FARM	1205 SOUTH UNIT AND PROPOSI	FORMATION NAME	BH, S-9H, S-10H WELL TYPE	1 1		LATITUDE	LONGITUDE
1	4703300095	Harrison	A B Jackson 1	Dominion Energy Transmission, Inc.	Fifth	Storage	<b>TVD</b> 2219	ACTIVE	39.113482	-80.340584
2	4703300118	Harrison	O F Allman 1	Dominion Energy Transmission, Inc.			1679		the second s	
3	4703300333	Harrison	James M Waggoner	UNKNOWN	Gantz	Storage		ACTIVE	39.131942	-80.346144
4	4703300338	Harrison	F S Young	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas Storage	2165 1700	PLUGGED	39.146495	-80.342517
5	4703300342	Harrison	Asa Boyce	UNKNOWN	Gantz Fifth		2269	ACTIVE	39.135769	-80.343869
6	4703300348	Harrison	Sarah F Vincent	UNKNOWN	Hampshire Grp	Gas		PLUGGED	39.129986	-80.337801
7	4703300350	Harrison	Viola Mount	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	2054	PLUGGED	39.135437 39.113273	-80.331733 -80.321297
8	4703300353	Harrison	G M Curry et al	Dominion Energy Transmission, Inc.		Gas Storage	4370		and the second s	A DECK STOLEN
9	4703300398	Harrison	J N Rector	UNKNOWN	Gordon (undiff) Thirty-foot	Storage	2047 2002	ACTIVE PLUGGED	39.136407 39.149633	-80.354852 -80.359418
10	4703300410	Harrison	E A Waggoner	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1964	ACTIVE	39.148438	-80.357974
11	4703300411	Harrison	W N Dawson CW513	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1964	ACTIVE	39.148438	-80.327748
12	4703300523	Harrison	Lewis C Swisher	Dominion Energy Transmission, Inc.	Gantz	Storage	1723	ACTIVE	39.143557	-80.335826
13	4703300536	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Benson	Gas	4410	ACTIVE	39.129739	-80.344514
14	4703300546	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Benson	Gas	4260	ACTIVE	39.128982	-80.331615
15	4703300550	Harrison	Lloyd D Swisher	Dominion Energy Transmission, Inc.	Benson	Dry w/ Gas Show	4320	PLUGGED	39.138747	-80.348299
16	4703300575	Harrison	Sidney Haymond	Dominion Energy Transmission, Inc.	Benson	Gas	4350	ACTIVE	39.122265	-80.336369
17	4703300577	Harrison	Sidney Cookman	Dominion Energy Transmission, Inc.	Benson	Gas	4356	ACTIVE	39.122467	-80.345146
18	4703300599	Harrison	Amanda E Smith	Dominion Energy Transmission, Inc.	Bayard	Gas	2512	ACTIVE	39.115515	-80.334818
19	4703300613	Harrison	Lewis C Swisher	Dominion Energy Transmission, Inc.	Benson	Gas	4457	ACTIVE	39.137811	-80.336839
20	4703300649	Harrison	G W Swisher	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2347	ACTIVE	39.142725	-80.340651
21	4703300656	Harrison	F S Young CW520	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	1894	PLUGGED	39.135593	-80.333125
22	4703300659	Harrison	S V Curry CW433	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1990	ACTIVE	39.149343	-80.352710
23	4703300661	Harrison	M S Davis CW538	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1885	ACTIVE	39.154774	-80.339266
24	4703300662	Harrison	L C Swisher CW527	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1759	ACTIVE	39.139321	-80.335262
25	4703300667	Harrison	G W Swisher CW525	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1687	PLUGGED	39.137325	-80.333373
26	4703300677	Harrison	D L Nutter	Alliance Petroleum Co. LLC	Thirty-foot	Gas	1850	ABANDONED	39.155655	-80.342933
27	4703300721	Harrison	Harris Hrs CW521	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1948	PLUGGED	39.135023	-80.333850
28	4703300729	Harrison	F Wiant CW522	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1864	PLUGGED	39.137099	-80.333220
29	4703300764	Harrison	M S Davis CW533	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2028	PLUGGED	39.153552	-80.339108
30	4703300792	Harrison	L Snyder CW518	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1824	PLUGGED	39.133088	-80.330236
31	4703300803	Harrison	O Fallman CW430	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2125	PLUGGED	39.147150	-80.340268
32	4703300845	Harrison	S Haymond CW514	Dominion Energy Transmission, Inc. RECEIVED	Gas Thirty-foot	Storage	2175	ACTIVE	39.124501	-80.339721
33	4703300849	Harrison	M M F Randolph CW573	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2000	ACTIVE	39.127556	-80.330228

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						WELL WITH TVD > 4,45			NOTES SURVEYED	Acres and a second
		LEWIS	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4452	ACTIVE	39.105148	-80.33043
5	4704104041	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4465	ACTIVE	39.111069	-80.33318
4	4704102879	Lewis Lewis	A S Holbert	Dominion Energy Transmission, Inc.	not available	Storage	2326	ACTIVE	39.113588	-80.34524
3	4703304635	Harrison	Charles R/F Sutton	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4660	ACTIVE	39.126514	-80.35078
2	4703304635	Harrison	W E Ware	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1985	ACTIVE	39.142073	-80.35920
1	4703300725	Harrison	- Louister	ADDITIONAL WELLS ADDED AS PER	UPDATED WVDEP DATA AND FIEL	D SURVEYS	-		and the second	-
	UNKNOWN	Harrison	Lloyd D. Swisher	UNKNOWN	UNKNOWN	not available	2209	UNKNOWN	39.137999	-80.3497
0	UNKNOWN	Harrison	Lloyd D Swisher 1656	UNKNOWN	UNKNOWN	not available	2036	UNKNOWN	39.138091	-80.3548
8	UNKNOWN	Harrison	J.J. Lewis	UNKNOWN	UNKNOWN	not available	-	PLUGGED	39.153186	-80.3475
-	4704104647	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4649	ACTIVE	39.106966	-80.3247
6 7	4703331913	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	UNKNOWN	not available	2345	PLUGGED	39.129301	-80.3375
5	4703331906	Harrison	F S Young	Dominion Energy Transmission, Inc.	Gantz	Storage	1910	ACTIVE	39,151283	-80.3455
4	4703331905	Harrison	M F Randolph CW422	Dominion Energy Transmission, Inc.	UNKNOWN	Storage	2182	UNKNOWN	39.130586	-80.3403
3	4703331903	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2164	ACTIVE	39.128236	-80.3415
2	4703304891	Harrison	Joseph C Queen	Dominion Energy Transmission, Inc.	not available	not available		PLUGGED	39.143411	-80.3541
1	4703304812	Harrison	Catherine Mauro	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4302	ACTIVE	39.112912	-80.3381
0	4703304661	Harrison	Gloria M Coward	Dominion Energy Transmission, Inc.	Benson	Gas	4350	ACTIVE	39.118568	-80.3463
9	4703304642	Harrison	Myrtle B Arobogast	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4453	ACTIVE	39.115232	-80.3426
8	4703304576	Harrison	Patricia B/Virginia L Smith	Dominion Energy Transmission, Inc.	Benson	Gas	4632	ACTIVE	39.115522	-80.3274
7	4703304457	Harrison	Wayne R Lewis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4420	ACTIVE	39.112332	-80.322
6	4703304387	Harrison	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4577	ACTIVE	39.110737	-80.3270
15	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	Gas	4427	ACTIVE	39.150855	-80.3485
14	4703302431	Harrison	J & F Allman	Dominion Energy Transmission, Inc.	Benson	Gas	4664	ACTIVE	39.134863	-80.3467
13	4703302359	Harrison	W D Dawson	Dominion Energy Transmission, Inc.	Benson	Gas	4374	ABANDONED	39.126266	-80.3255
12	4703302137	Harrison	M S Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4478	ACTIVE	39.152701	-80.3384
41	4703300998	Harrison	S G Kennedy CW531	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1910	ACTIVE	39.146770	-80.3367
40	4703300988	Harrison	Levi B Davis CW431	Dominion Energy Transmission, Inc.	Fifth	Storage	2137	ACTIVE	39.147749	-80.3403
39	4703300940	Harrison	Susan Curry	Dominion Energy Transmission, Inc.	Benson	Gas	4256	ACTIVE	39.142820	-80.3453
38	4703300922	Harrison	A B Yost	Dominion Energy Transmission, Inc.	Benson	Gas	4455	ACTIVE	39.154204	-80.3506
37	4703300882	Harrison	Patricia B Smith	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1965	ACTIVE	39.117546	-80.3351
36	4703300860	Harrison	Burgett Swisher CW470	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1925	ACTIVE	39.129447	-80.3502
35	4703300856	Harrison	Susan V Curry CW472	Dominion Energy Transmission, Inc.	Thirty-foot Thirty-foot	Storage Storage	1877 1950	ACTIVE	39.142614 39.145753	-80.3463

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE AND FIELD SURVEYS

YELLOW DENOTES WELL WITH TVD > 4,450' RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection

WW-9 (4/16) 4703306002 API Number 47 Operator's Well No. <u>Schoen 1205 S-8H</u> 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 Code494501907         Watershed (HUC 10)_Middle West Fork Creek       QuadrangleMount Clare 7.5'         Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No       No         Will a pit be used? Yes No       If so, please describe anticipated pit waste:       NA         Will a synthetic liner be used in the pit? Yes No       If so, what ml.?       Froposed Disposal Method For Treated Pit Wastes:
Will closed loop system be used? If so, describe: <u>Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.</u> Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. <u>Vertical-Air, Air/KCL, Air/SOBM, Horizontal-SOBM</u> -If oil based, what type? Synthetic, petroleum, etc. <u>Synthetic</u>

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

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) 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 cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature	Diane White
Company Official (Typed Name)_	Diane White
Company Official Title	Agent

Subscribed and sworn bef	ore me this 23rd	day of November	, 20_20	-
( Lat	lec	RECEIVED Office of Oil and Gas	_ Notary Public	OFFICIAL SEAL NOTARY PUBLIC, STATE OF WEST VIRGINIA MARK J SCHALL
My commission expires	11/2/2021	JAN <b>06</b> 2021		HG Energy LLC HG Energy LLC PO Box 5519, Vianna, WV 28105 My Commission Expires November 2, 2021
		WV Department of Environmental Protection		My Colleman and a second and as second and a

Form WW-9

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## Operator's Well No. Schoen 1205 S-8H

Acres Disturbed29.4	65 Prevegetation pH	[
ons/acre or to correct to j	<sub>pH</sub> 6.5	
	-	
500	_lbs/acre	
2	ns/acre	
<u>S</u>	eed Mixtures	
ry	Perma	nent
lbs/acre	Seed Type	lbs/acre
40	Tall Fescue	40
5	Ladino Clover	5
	ns/acre or to correct to p 500 2 Tor 2 ry lbs/acre 40	biline of biline of a second of the provided o

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: SID WandIF	
Comments: Pre-seed/mulch as soon as reasonably possible	e per regulation.
Upgrade E&S if needed per WV DEP E&S manual.	
	RECEIVED
	Office of Oil and Gas
	JAN <b>06</b> 2021
	WV Department of Environmental Protection
Title: Oil & Gas Inspector Date: 11/25/202	D
Field Reviewed? () Yes () No	

## **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

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

Environmental Coordination Services & Recycling (ECS&R) 8237 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 Belle 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, 233 Max Lane Yukon, PA 25968 724-722-3500

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

Waste Management Kelly Run Permit # 100663 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

۰.

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

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED Office of Oil and Gas

JAN 06 2021

WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martînsville, WV 26035 304-455-3800

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

Energy Solutions Services, Inc. Permit # R-73006-L24 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 Dallas, TX 75320-3997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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

**Disposal Locations:** 

Solidification Waste Management, Arden Landfill 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 Office of Oil and Gas

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WV Department of Environmental Protection

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 Carlisie, PA 17015

Myers Well Service, ...... 2001 Balipark Court Export, PA 15632

Burns Drilling & Excavating 618 Crabapple Road P.O. Box Wind Ridge, PA 15380

Nichlos 1-A (SWIW #13) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

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 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 # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

SOS D#1 (SWIW #12) Permit # 34-059-2-4202-00-00 Silcor Oilfield 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

## 6703306002

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

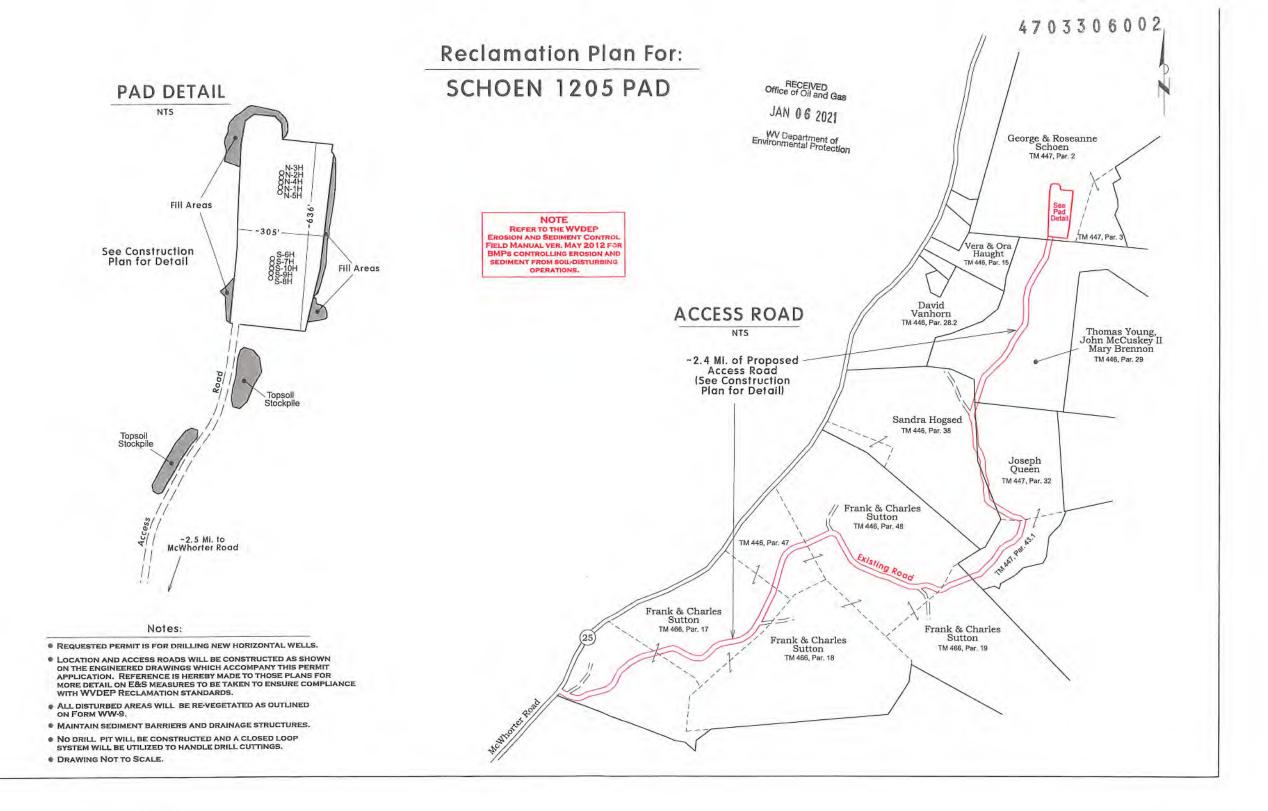
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

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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WV Department of Environmental Protection



## HG Energy II Appalachia, LLC

# **Site Safety Plan**

Schoen 1205 Well Pad

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

RECEIVED Office of Oil and Gas

SEP 0 3 2020

WV Department of Environmental Protection

HG Energy II Appalachia, LLC

5260 Dupont Road

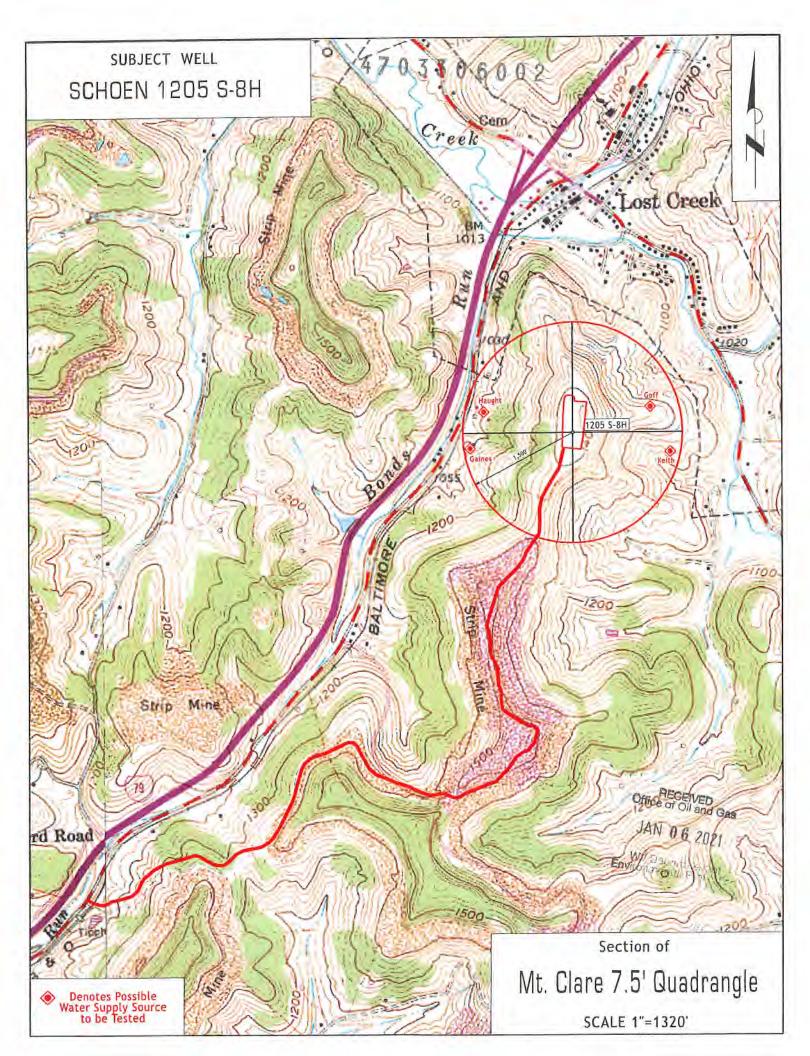
Parkersburg, WV 26101

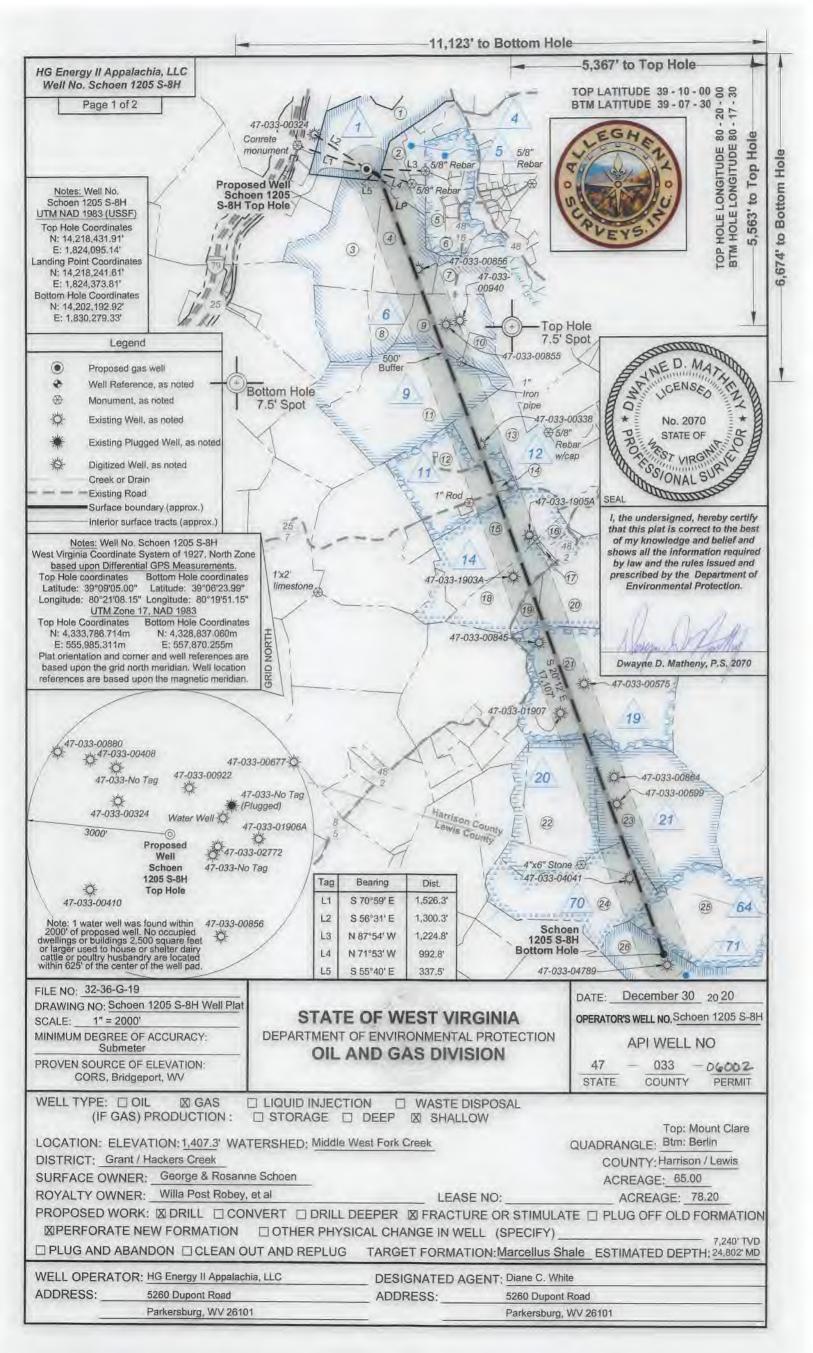
SDW 8/27/2020

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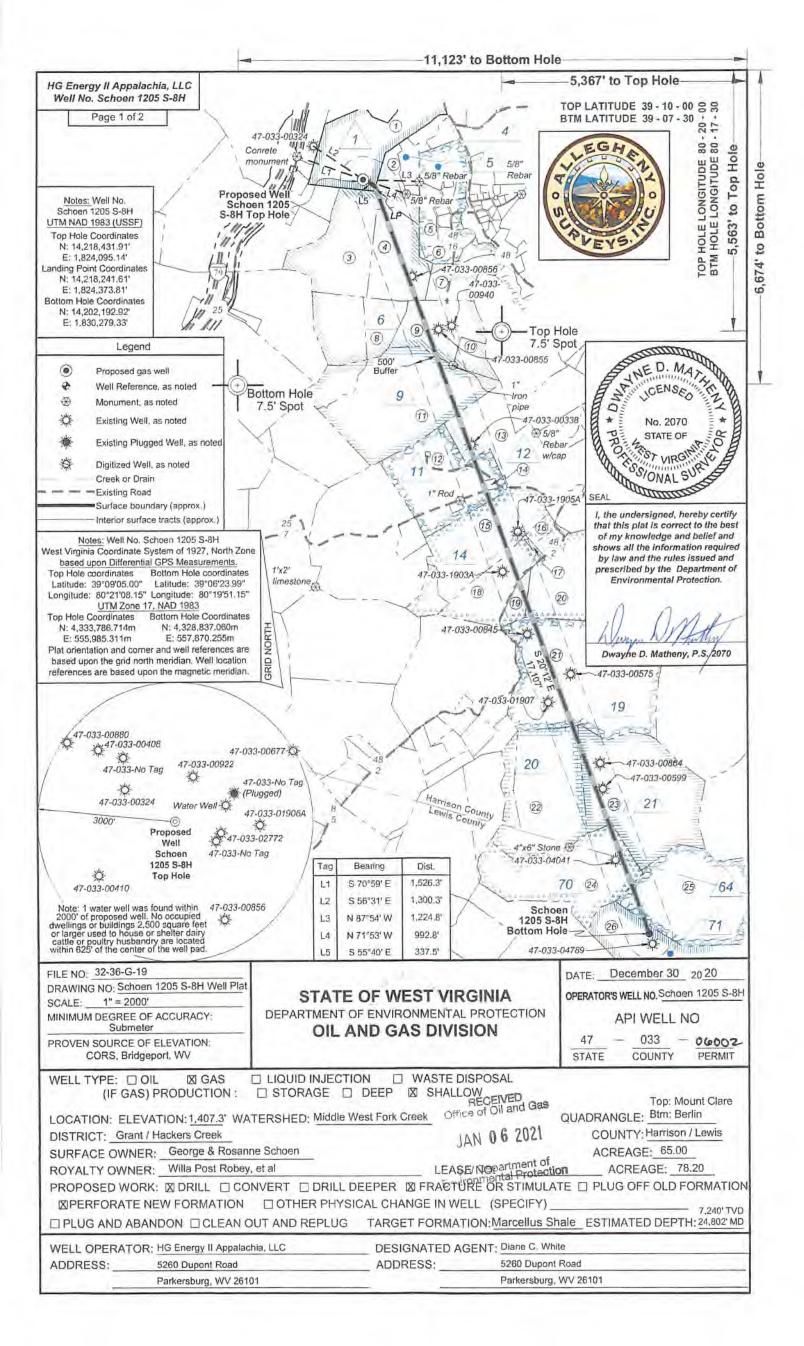
JAN 06 2021

WV Department of Environmental Protection





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Page 2 of 2		C C C C C C C C C C C C C C C C C C C
D Lease 1 A.B. Post, et al 4 Charlotte C, Gerlach 5 French S. Young, et al 6 Susan V. Curry & Ida M. Curry 9 L.D. & Addie Swisher 11 P.T. Allman 12 French S. Young, et al		
44       M.M.F. & S.F. Randolph         49       Sidney & Virginia Haymond         20       Alcinda B. & M.E. Jackson         21       Patricia B. Smith, et al         54       Melvina E. Cookman         70       Mary Alkire         71       Allie & M.E. Jackson, et al         72       Allie & M.E. Jackson, et al         74       Allie & M.E. Jackson, et al         75       TM / Par         76       Owner         447 / 2       George & Rosanne Schoen         447 / 3       George & Rosanne Schoen         447 / 20       Richard & Janet Stout         447 / 21       Richard & Janet Stout         447 / 21       Richard & Janet Sprout         447 / 22       Daniel & Stacie Cooley         447 / 33       Joseph C. Queen         447 / 34       Sharon K. Patsy J. Salate         0       447 / 35       Kenneth Maxwell & Patricia Myers	Bk / Pg         Ac.           1148 / 1059         65.00           1253 / 302         10.06           1121 / 25         75.00           1175 / 320         51.00           1389 / 669         5.04           1600 / 849         6.09           1310 / 1072         16.59           1349 / 508         20.00           1360 / 84         43.00           1311 / 423         11.67           1543 / 141         123.95           1306 / 775         78.79	Wellhead Layout (NTS) Schoen 1205 S-6H Schoen 1205 S-7H (47-033-05995) Schoen 1205 S-10H Schoen 1205 S-9H Schoen 1205 S-9H
2 467 / 1 Margaret L. Gyimesi	1378/976 95.16	Well Location References
2         467 / 1         Margaret L. Gyimesi           3         467 / 2         Jackson L. Smith           4         467 / 1.1         Margaret Gymesi           5         467 / 30         William L. Randolph, et ux           6         467 / 33.1         Eugene W. Hanby           7         467 / 33.2         Charles R. Sutton           8         467 / 33         Charles R. & Franklin L. Sutton           9         467 / 34         Joseph M. Richards           1         467 / 52         David L. & Lisle C. Hinkle           2         487 / 4.1         Catherine A. Mauro           3         487 / 5         Kimberly & Terri Glaze Wriston           Lewis County         Lewis County           4         10C / 11         Thomas C. Kennedy           5         10C / 16         Terri Smith Glaze           6         10C / 15         Thomas C. Kennedy	1306 / 775       1.45         1518 / 19       73.73         1428 / 1       4.76         1472 / 181       39.20         1439 / 1234       9.15         1439 / 1234       73.93         1282 / 389       175.50         1284 / 135       95.45         W 83 / 97       129.62         W       31 / 428       92.50         W 3/ 428       105.00         W 3 / 428       107.00	Not to Scale Schoen 1205 South Pad 5/8" rebar w/yellow plastic cap
2         467 / 1         Margaret L. Gyimesi           3         467 / 2         Jackson L. Smith           4         467 / 1.1         Margaret Gymesi           5         467 / 30         William L. Randolph, et ux           6         467 / 33.1         Eugene W. Hanby           7         467 / 33.2         Charles R. Sutton           8         467 / 33         Charles R. Sutton           9         467 / 34         Joseph M. Richards           0         467 / 36         Joseph M. Richards           0         467 / 52         David L. & Lisle C. Hinkle           2         487 / 4.1         Catherine A. Mauro           3         487 / 5         Kimberly & Terri Glaze Wriston           Lewis County         Lewis County         4           4         10C / 11         Thomas C. Kennedy           5         10C / 16         Terri Smith Glaze	1518 / 19       73.73         1428 / 1       4.76         1472 / 181       1.03         1472 / 181       39.20         1439 / 1234       9.15         1439 / 1234       9.15         1439 / 1234       73.93         1282 / 389       175.50         1244 / 135       95.45         W 83 / 97       129.62         W       3/ 428       92.50         W 34 / 428       105.00	Not to Scale  Schoen 1205 South Pad 5/8" rebar W/yellow plastic cap DATE: December 30 20.20
2       467 / 1       Margaret L. Gyimesi         3       467 / 2       Jackson L. Smith         4       467 / 1.1       Margaret Gymesi         5       467 / 30       William L. Randolph, et ux         5       467 / 33.1       Eugene W. Hanby         7       467 / 33.2       Charles R. Sutton         8       467 / 33.1       Eugene W. Hanby         7       467 / 33.2       Charles R. & Franklin L. Sutton         9       467 / 34       Joseph M. Richards         0       467 / 52       David L. & Lisle C. Hinkle         2       487 / 4.1       Catherine A. Mauro         3       487 / 5       Kimberly & Terri Glaze Wriston         2       487 / 4.1       Catherine A. Mauro         3       487 / 5       Thomas C. Kennedy         5       10C / 16       Terri Smith Glaze         6       10C / 15       Thomas C. Kennedy         5       10C / 16       Terri Smith Glaze         6       10C / 15       Thomas C. Kennedy         5       10C / 16       Terri Smith Glaze         6       10C / 15       Thomas C. Kennedy         5       Schoen 1205 S-8H Well Plat       SCALE:         5 <td>1518/19       73.73         1428/1       4.76         1472/181       10.3         1472/181       39.20         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       73.93         1282/389       175.50         1244/135       95.45         W 3/428       107.00         STATE OF WEST VIRGINIA         DEPARTMENT OF ENVIRONMENTAL PROTECTION         OIL AND GAS DIVISION         OIL AND GAS DIVISION         LIQUID INJECTION       WASTE DISPOSAL         STORAGE       DEEP         STARGE       DEEP         STORAGE       DEEP         STORAGE       DEEP         SHALLOW       TERSHED: Middle West Fork Creek         e       Schoen         et al       LEASE NO:</td> <td>Not to Scale  Schoen 1205 South Pad 5/8" rebar W/yellow plastic cap DATE: December 30 20 20 OPERATOR'S WELL NO. Schoen 1205 S-8H API WELL NO 47 033 0202 OPERATOR'S WELL NO. Schoen 1205 S-8H API WELL NO 47 033 0202 FERMIT Top: Mount Clare QUADRANGLE: Btm: Berlin COUNTY: Harrison / Lewis ACREAGE: 65.00 ACREAGE: 78.20</td>	1518/19       73.73         1428/1       4.76         1472/181       10.3         1472/181       39.20         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       9.15         1439/1234       73.93         1282/389       175.50         1244/135       95.45         W 3/428       107.00         STATE OF WEST VIRGINIA         DEPARTMENT OF ENVIRONMENTAL PROTECTION         OIL AND GAS DIVISION         OIL AND GAS DIVISION         LIQUID INJECTION       WASTE DISPOSAL         STORAGE       DEEP         STARGE       DEEP         STORAGE       DEEP         STORAGE       DEEP         SHALLOW       TERSHED: Middle West Fork Creek         e       Schoen         et al       LEASE NO:	Not to Scale  Schoen 1205 South Pad 5/8" rebar W/yellow plastic cap DATE: December 30 20 20 OPERATOR'S WELL NO. Schoen 1205 S-8H API WELL NO 47 033 0202 OPERATOR'S WELL NO. Schoen 1205 S-8H API WELL NO 47 033 0202 FERMIT Top: Mount Clare QUADRANGLE: Btm: Berlin COUNTY: Harrison / Lewis ACREAGE: 65.00 ACREAGE: 78.20



Well No. Schoen 1205 S-8H			THE CHART
Page 2 of 2			C TENER
ID       Lease         1       A.B. Post, et al         4       Charlotte C. Gerlach         5       French S. Young, et al         6       Susan V. Curry & Ida M. Curry         9       L.D. & Addie Swisher         11       P.T. Allman         12       French S. Young, et al         14       M.M.F. & S.F. Randolph         19       Sidney & Virginia Haymond         20       Alcinda B. & M.E. Jackson         21       Patncia B. Smith, et al         64       Melvina E. Cookman         70       Mary Alkine         71       Allie & M.E. Jackson, et al         Harrison County         0.       TM / Par         Owner         1       447 / 2         3       George & Rosanne Schoen         3       446 / 29       John F. McCuskey II, et al         4       447 / 3       Richard & Janet Stout         6       447 / 4.13       Richard & Rebecca Sprout         6       447 / 33       Joseph C. Queen         9       447 / 34       Sharon K. Patsy J. Salate	Bk / Pg         Ac.           1148 / 1059         65.00           1253 / 302         10.06           1121 / 25         75.00           1175 / 320         51.00           1389 / 669         5.04           1600 / 849         6.09           1310 / 1072         16.59           1349 / 508         20.00           1360 / 84         43.00           :         1311 / 423           141 / 123.95         154	Office of Oil and Gas JAN 06 2021	Wellhead Layout (NTS) Schoen 1205 S-6H ( Schoen 1205 S-7H (47-033-05995) Schoen 1205 S-10H ( Schoen 1205 S-9H ( Schoen 1205 S-8H (
0         447 / 35         Kenneth Maxwell & Patricia Myers           11         447 / 43         Betty J. & Isaac H. Maxwell III           2         467 / 1         Margaret L. Gyimesi           3         467 / 2         Jackson L. Smith           4         467 / 1.1         Margaret Gymesi           5         467 / 3.0         William L. Randolph, et ux           6         467 / 33.1         Eugene W. Hanby           7         467 / 33.2         Charles R. Sutton           8         467 / 33         Charles R. Sutton           9         467 / 36         Joseph M. Richards           20         467 / 36         Joseph M. Richards           20         467 / 52         David L. & Lisle C. Hinkle           21         467 / 52         David L. & Lisle C. Hinkle           22         487 / 4.1         Catherine A. Mauro           23         487 / 5         Kimberly & Terri Glaze Wriston           24         10C / 11         Thomas C. Kennedy           25         10C / 16         Terri Smith Glaze           26         10C / 15         Thomas C. Kennedy	1303 / 14         123.93           1306 / 775         78.79           1378 / 976         95.16           1306 / 775         1.45           1518 / 19         73.73           1428 / 1         4.76           1472 / 181         1.03           1472 / 181         39.20           1439 / 1234         9.15           1439 / 1234         73.93           1282 / 389         175.50           1244 / 135         95.45           W 83 / 97         129.62           W 3 / 428         92.50           W 3 / 428         105.00           W 3 / 428         107.00	JAN 06 2021	Well Location References Not to Scale Schoen 1205 © Schoen 120
0         447 / 35         Kenneth Maxwell & Patricia Myers           11         447 / 43         Betty J. & Isaac H. Maxwell III           2         467 / 1         Margaret L. Gyimesi           3         467 / 2         Jackson L. Smith           4         467 / 1.1         Margaret Gymesi           5         467 / 30         William L. Randolph, et ux           6         467 / 33.1         Eugene W. Hanby           7         467 / 33.2         Charles R. Sution           8         467 / 33         Charles R. Sution           9         467 / 34         Joseph M. Richards           20         467 / 36         Joseph M. Richards           20         467 / 52         David L. & Lisle C. Hinkle           21         467 / 52         David L. & Lisle C. Hinkle           22         487 / 4.1         Catherine A. Mauro           23         487 / 5         Kimberly & Terri Glaze Wriston           24         10C / 11         Thomas C. Kennedy           25         10C / 16         Terri Smith Glaze	1306 / 775 78.79 1378 / 976 95.16 1306 / 775 1.45 1518 / 19 73.73 1428 / 1 4.76 1472 / 181 1.03 1472 / 181 39.20 1439 / 1234 9.15 1439 / 1234 73.93 1282 / 389 175.50 1244 / 135 95.45 W 83 / 97 129.62 W 3 / 428 105.00 W 3 / 428 105.00 W 3 / 428 107.00 STATE O DEPARTMENT OF 1	JAN 06 2021	Well Location References Not to Scale Schoen 1205 South Pad 5/8" rebar w/yellow Schoen 120 Schoen 1
0         447 / 35         Kenneth Maxwell & Patricia Myers           1         447 / 43         Betty J. & Isaac H. Maxwell III           2         467 / 1         Margaret L. Gyimesi           3         467 / 2         Jackson L. Smith           4         467 / 1.1         Margaret Gymesi           5         467 / 30         William L. Randolph, et ux           6         467 / 33.1         Eugene W. Hanby           7         467 / 33.2         Charles R. Sutton           8         467 / 33.2         Charles R. Sutton           8         467 / 33         Charles R. & Franklin L. Sutton           9         467 / 34         Joseph M. Richards           20         467 / 35         David L. & Lisle C. Hinkle           21         467 / 52         David L. & Lisle C. Hinkle           22         487 / 5         Kimberly & Terri Glaze Wriston           21         467 / 15         Thomas C. Kennedy           22         487 / 5         Kimberly & Terri Glaze Wriston           23         487 / 5         Thomas C. Kennedy           24         10C / 11         Thomas C. Kennedy           25         10C / 15         Thomas C. Kennedy           26         10C / 15	1306 / 775       78.79         1378 / 976       95.16         1306 / 775       1.45         1518 / 19       73.73         1428 / 1       4.76         1472 / 181       10.3         1472 / 181       39.20         1439 / 1234       9.15         1439 / 1234       9.15         1439 / 1234       9.15         1439 / 1234       95.45         W 83 / 97       12.62         W 31 / 428       92.50         W 3/ 428       92.50         W 3/ 428       105.00         W 3/ 428       105.00         W 3/ 428       107.00    STATE O DEPARTMENT OF I OIL AN STORAGE □ D DEPARTMENT OF I OIL AN OIL AN STORAGE □ D TERSHED: Middle Wess ne Schoen	JAN 0 6 2021 JAN 0 7 2010 JAN	Well Location References Not to Scale         Schoen 1205 South Pad       Proposed We Schoen 120 Schoen 120 Sc
0         447 / 35         Kenneth Maxwell & Patricia Myers           1         447 / 43         Betty J. & Isaac H. Maxwell III           2         467 / 1         Margaret L. Gyimesi           3         467 / 2         Jackson L. Smith           4         467 / 1.1         Margaret Gymesi           5         467 / 30         William L. Randolph, et ux           6         467 / 33.1         Eugene W. Hanby           7         467 / 33.2         Charles R. & Sutton           8         467 / 33         Charles R. & Sutton           9         467 / 33         Charles R. & Franklin L. Sutton           9         467 / 34         Joseph M. Richards           10         467 / 52         David L. & Lisle C. Hinkle           12         487 / 5         Kimberly & Terri Glaze Wriston           12         487 / 5         Kimberly & Terri Glaze Wriston           13         487 / 5         Thomas C. Kennedy           14         10C / 11         Thomas C. Kennedy           15         10C / 16         Terri Smith Glaze           16         10C / 15         Thomas C. Kennedy           10C / 16         Terri Smith Glaze           10C / 16         Terri Smith Glaze      <	1306 / 775       78.79         1378 / 976       95.16         1306 / 775       1.45         1518 / 19       73.73         1428 / 1       4.76         1472 / 181       1.03         1472 / 181       39.20         1439 / 1234       9.15         1439 / 1234       9.15         1439 / 1234       9.15         1439 / 1234       9.15         1282 / 389       175.50         1244 / 135       95.45         W 83 / 97       129.62         W 3/ 428       105.00         W 3/ 428       105.00         W 3/ 428       105.00         W 3/ 428       107.00         STATE O         DEPARTMENT OF I         OLEPARTMENT OF I         OTHER PHYSICA <td>JAN 0 6 2021 JAN 0 7 2010 JAN 0 7 2010 JAN</td> <td>Well Location References Not to Scale         Schoen 1205 South Pad       Proposed We Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 1205 Schoen Plastic cap         DATE:       December 30 Plastic cap       20 20 OPERATOR'S WELL NO. Schoen 1205 Schoen 1205 Schoen Plastic cap         DATE:       December 30 Plastic cap       20 20 OPERATOR'S WELL NO. Schoen 1205 Schoen 1205 Schoen Plastic cap         47       033       OGOO'Z PERMIT         COUNTY:       Harrison / Lewis ACREAGE:       65.00 ACREAGE:         ACREAGE:       65.00 ACREAGE:       78.20         ATE       PLUG OFF OLD FORMATIC       7.240' TV thale</td>	JAN 0 6 2021 JAN 0 7 2010 JAN	Well Location References Not to Scale         Schoen 1205 South Pad       Proposed We Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 120 Schoen 1205 Schoen Plastic cap         DATE:       December 30 Plastic cap       20 20 OPERATOR'S WELL NO. Schoen 1205 Schoen 1205 Schoen Plastic cap         DATE:       December 30 Plastic cap       20 20 OPERATOR'S WELL NO. Schoen 1205 Schoen 1205 Schoen Plastic cap         47       033       OGOO'Z PERMIT         COUNTY:       Harrison / Lewis ACREAGE:       65.00 ACREAGE:         ACREAGE:       65.00 ACREAGE:       78.20         ATE       PLUG OFF OLD FORMATIC       7.240' TV thale

WW-6A1 (5/13) Operator's Well No. Schoen 1205 S-8H

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

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

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

Number Grantor Lessor etc Grantee Lessee etc Rox	Deuberiu	me or		
	Numb	er Grantor, Lessor, etc. Grantee, Lessee, etc.	Royalty	Book/Page

\*\*See Attached Sheets\*\*

RECEIVED Office of Oil and Gas

### JAN 06 2021

WV Department of Environmental Protection

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

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

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

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

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

Page 1 of \_\_\_\_\_

#### HG Energy II Appalachia, LLC Schoen 12052 S-8H Lease Chain

12055	LEGACY LEASE NUMBER	ΤΑΧ ΜΑΡ	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PA
12033	itomben.			A. B. POST, WIDOWER; P. S. ROBEY AND WILLA ROBEY, EACH IN HIS				
				OWN RIGHT AS HUSBAND AND WIFE; ELLA LOUISE MAXWELL AND				
				ISAAC H. MAXWELL, HER HUSBAND; FRANCES AND GEORGE B.				
				VIEWEG, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	900	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		12 0447 0001 0000				FIRST AMENDMENT TO MEMORANDUM OF		
1 ~	LC074399	12-0447-0001-0000	Q100514000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	
10		12-0447-0002-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
"				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
2021	Environmental Hous			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
20 au	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
e ta	ta l			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
o ä	E					SECOND AMENDMENT TO MEMORANDUM OF	1.004	
ZĎ	EL .			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		1601	
UAN MV D	<u>io</u>					THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1(2)1	
~ >	12			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1621 1637	
	Ē			DOMINION ENERGY TRANSMISSION, INC.	•	NOT LESS THAN 1/8	1037	
				JOHN H. GERLACH AND CHARLOTTE C. GERLACH, HIS WIFE	JACKSON L. SMITH, D/B/A WEST VIRGINIA ENERGIES	ASSIGNMENT	1108	
		12-0447-0003-0000		JACKSON L. SMITH, D/B/A WEST VIRGINIA ENERGIES	BERRY ENERGY CONSULTANTS & MANAGERS INC	ASSIGNMENT	1140	
		12-0447-0003-0002		BERRY ENERGY CONSULTANTS & MANAGERS INC	EASTERN AMERICAN ENERGY CORPORATION	MERGER/NAME CHANGE	200	
4	ANTERO5	12-0447-0003-0003	ANTERO5	J & J ENTERPRISES, INC	ENERGY CORPORATION OF AMERICA	MERGER/NAME CHANGE	59	
		12-0447-0003-0004		EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA	ANTERO RESOURCES CORPORATION	ASSIGNMENT	1603	
		12-0447-0003-0005		ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1605	
				FRENCH S. YOUNG AND ANNA J. YOUNG	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	147	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
		12-447-0004-0001			CONSOLIDATED GAS SOFFET CONFORMATION	ASSIGNMENT	1136	
		12-447-0004-0002		CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
		12-447-0004-0003		CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION CORFORATION	MERGER/NAME CHANGE	58	
		12-447-0004-0004		CNG TRANSMISSION CORPORATION		MEMORANDUM FARMOUT AGREEMENT	1522	
		12-447-0004-0005		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF	1522	
		12-447-0004-0006			HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1524	
		12-447-0004-0007	0100022000	DOMINION ENERGY TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
5	LC004920	12-447-0004-0008	Q100923000 LC098171 FEE		CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1543	
		12-447-0004-0009	10090171700	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	1576	
		12-447-0004-0010		CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1584	
		12-447-0004-0011		NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		12-447-0004-0012		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	000303	
		12-447-0004-0013			HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
		12-447-0021-0000		DOMINION ENERGY TRANSMISSION, INC.		THIRD AMENDMENT TO MEMORANDUM OF	1001	
		12-447-0023-0000		DOMINION ENERGY TRANSMISSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1621	
				SUSAN V. CURRY, SINGLE; AND IDA M. CURRY, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	193	
					CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SOFFLY CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	<u> </u>
	1	12-0446-0029-0000	1	CNG TRANSMISSION CORPORATION	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	

1	1	12-0441-0020-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
	LC098171 FEE,	12-0447-0022-0000	Q100631000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
6	LC020404	12-0447-0032-0000	LC098171 FEE	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
	20020404	12-0447-0033-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
		12-0447-0034-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		12-0447-0035-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081
				L. D. SWISHER AND ADDIE SWISHER, HISWIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	152	254
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				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
						FIRST AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	493
۹ I	LC005124	12-0447-0043-0000	FK005124	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	123
5	10003124	12-0447-0043-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	12
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	021 Protection			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	58:
						THIRD AMENDMENT TO MEMORANDUM OF		
	60			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
ට යය	D'Z'			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	108
5	2 En			P. T. ALLMAN	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	193	28
<u>ណ្ណូ</u> រ្ត៍	o tett			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	17
2	0 der			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
RECEIVED	JAN 06 20 JAN 06 20 WW Departm			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
Ĩ				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
L.				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3
	5 1					FIRST AMENDMENT TO MEMORANDUM OF		
		12-0467-0001-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49
		12-0467-0001-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	123
11	LC020456	12-0467-0001-0002	Q100320000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	12
		12-0467-0001-0003		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	58
				Sommon Energy menomission, inc.		THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	108
				FRENCH S. YOUNG AND ANNA J. YOUNG, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	808	4:
					CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	1
				HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	1136	2
					CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	7
				CONSOLIDATED GAS TRANSMISSION CORPORATION	DOMINION TRANSMISSION CORPORATION	MERGER/NAME CHANGE	58	3
	I			CNG TRANSMISSION CORPORATION	CNX GAS COMPANY LLC	MENORANDUM FARMOUT AGREEMENT	1522	J
				DOMINION TRANSMISSION, INC.		FIRST AMENDMENT TO MEMORANDUM OF	1322	
			1	DOMINION TRANSMISSION INC		1 1	1524	4
	! I	12-0467-0002-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC NOBLE ENERGY, INC.	FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%)	1543	12
12	LC068012	12-0467-0002-0001	Q100847000	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY. INC.	PARTIAL ASSIGNMENT (50%)	1543	12
		12-0467-0002-0002		DOMINION TRANSMISSION, INC.			1584	
	1 I			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		9
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	6
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF		
	1		1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58

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				1	<b></b>	THIRD ANTHONY TO MEMORANDUNA OF	<u> </u>	
						THIRD AMENDMENT TO MEMORANDUM OF	1621	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT ASSIGNMENT (68%)	1637	
				DOMINION ENERGY TRANSMISSION, INC.				
				M.M.F. RANDOLPH AND S. F. RANDOLPH, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	152	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		12-0467-0030-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
		12-0467-0030-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		p/o 12-0467-0032-0003		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		12-0467-033-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
		p/o 12-0467-0033-0001	0.0005.00000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
14	LC005043	12-0467-0034-0000	Q100542000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
		12-0467-0035-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		12-0467-0036-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
		12-0467-0036-0001				SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
		p/o 12-467-0032-0000		DOMINION ENERGY TRANSMISSION, INC.		THIRD AMENDMENT TO MEMORANDUM OF		
	1			DOMINION ENERGY TRANSMISSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	
							1037	
				SIDNEY HAYMOND AND VIRGINIA HAYMOND, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8		
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	204	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
	4			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
19	10008514	12-0467-0052-0000	Q100306000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
		12 0407 0052 0000	<u></u>	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
Gas	2021			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
P				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
RECEIVED C	JAN <b>0.6</b> 2021 W Department of 10 W Department of 10 Environmental Protection			NOBLE ENERGY, INC.		SECOND AMENDMENT TO MEMORANDUM OF		
5	06 Depart mente			DOMINION ENERGY TRANSMISSION INC	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
щO	OF OF			DOMINION ENERGY TRANSMISSION, INC.	HO ENERGY II AFFALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	1001	
ЩÖ	3 32						1 ( ) 1	
шö	JAN WW E			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		<u> </u>	
Ŧ	i ii			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		
				ALCINDA B. JACKSON AND M. E. JACKSON, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	497	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		12-0487-0004-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
20	LC051844	12-0487-0004-0001	Q100873000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
		12-0487-0004-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
					HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
				NOBLE ENERGY, INC.	HO ENERGI II AFFALACIIIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF	1000	
					HG ENERGY II APPALACHIA. LLC	FARMOUT AGREEMENT	1601	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	
				DOMINION ENERGY TRANSMISSION, INC.			1021	
			1					
				PATRICIA B. SMITH, WIDOW; AND VIRGINIA LAURA SMITH, SINGLE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	996	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
					CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CONSOLIDATED GAS SUPPLY CORPORATION		MERGER/NAME CHANGE MERGER/NAME CHANGE	51 58	
				CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
				CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE MERGER/NAME CHANGE	51 58	
21	LC022729	12-0487-0005-0000	Q100867000	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC.	MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT	51 58 1522	
21	LC022729	12-0487-0005-0000	Q100867000	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%)	51 58 1522 1543	

				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081
				MELVINA E. COOKMAN	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	242	386
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
64	LC066698	04-010C-0016-0000	Q100879000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	092
				DOMINION TRANSMISSION, INC.	DOWINION ENERGY TRANSMISSION, INC.		VV V303	
						SECOND AMENDMENT TO MEMORANDUM OF	1001	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	795
						THIRD AMENDMENT TO MEMORANDUM OF	4 6 9 4	4000
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081
				MARY ALKIRE, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	68	532
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
			0400500000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
70	LC022733	04-010C-0011-0000	Q100522000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	ļ į			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
	S _ 5	5				SECOND AMENDMENT TO MEMORANDUM OF		
	D Gau 2021	<b>5</b> 0		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
		14				THIRD AMENDMENT TO MEMORANDUM OF		
	and on the	a		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
	CEIVED Ga foil and Ga 0 6 2021	hue		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
		Ē		ALLIE B. JACKSON AND M. E. JACKSON, ET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	249	275
	fice o JAN	5		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
	Office of JAN				CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	1136	250
	0	Environit		CONSOLIDATED GAS SUPPLY CORPORATION			51	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION		MERGER/NAME CHANGE	51	362
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC		1522	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
71	W067679	04-010C-0015-0000	Q100111100	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081



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

4703306002

December 30, 2020

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

RE: Drilling Under Roads – Schoen 1205 S-8H 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 <u>dwhite@hgenergyllc.com</u> or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas JAN 06 2021 WV Department of Environmental Protection

FOIL and Gas

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 12/30/2020

API No. 47	
Operator's Well No. Schoen 1205 S-8H	
Well Pad Name: Schoen Well Pad	

#### Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	555985.3
County:	Harrison	UTWINAD 65	Northing:	4333786.7
District:	Grant	Public Road Access:		McWhorter Road
Quadrangle:	Mount Clare	Generally used :	farm name:	Schoen
Watershed:	Middle West Fork Creek			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has at that the Operator has properly served the required parties with		OOG OFFICE USE
*PLEASE CHECK ALL THAT APPLY		ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE	CE NOT REQUIRED BECAUSE NO ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
$\Box$ 2. NOTICE OF ENTRY FOR PLAT SURVEY or $\blacksquare$ N	NO PLAT SURVEY WAS CONDUCTED	
NOTICE C	CE NOT REQUIRED BECAUSE OF ENTRY FOR PLAT SURVEY IDUCTED or	RECEIVED/ NOT REQUIRED
	TEN WAIVER BY SURFACE OWNER EASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION		RECEIVED
■ 5. PUBLIC NOTICE	RECEIVED Office of Oil and Gas	RECEIVED
■ 6. NOTICE OF APPLICATION	JAN 06 2021	RECEIVED
F.m.	WV Department of	

#### **Required Attachments:**

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

WW-6AC (1/12)

## 4703306002

#### Certification of Notice is hereby given:

THEREFORE, I Diane White \_\_\_\_\_\_\_, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A. I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	HG II Appalachia	a, 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	
	the second second second				e contra de la contr	

NOTARY SEAL	Subscribed and sworn before me this 30th day of December, 2020 .
OFFICIAL SEAL NOTARY PUBLIC. STATE OF WEST VIRGINIA MARK J SCHALL H G Energy LL C PO Box 5519, Vienna, WV 26105 My Commission Expires November 2, 2021	My Commission Expires 11/2/2021

#### 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 <u>depprivacyofficer@wv.gov</u>.

Office of Oil and Gas JAN 06 2021

WV Department of Environmental Protection

## 4703306002

OPERATOR WELL NO. Settlern 1205 N-1H to S-10H Well Pad Name: Schoen 1205

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Dat	e of Notice: 11.23.20	Date Permit Applica	tion Filed: 11/25/20	
Not	ice of:			Office of Oil and Gas
	PERMIT FOR AN WELL WORK	CONST	ICATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT	JAN 06 2021 WV Department of Environmental Protection
Del	ivery method pursu:	ant to West Virginia C	ode § 22-6A-10(b)	Protection
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQU RECEIPT OR SIGNATURE CONFIRM	JIRES A
cert regi sedi the oil a	ificate of approval for stered mail or by any r iment control plan requ surface of the tract on and gas leasehold bein	the construction of an im nethod of delivery that re uired by section seven of which the well is or is pr g developed by the propo	an the filing date of the application, the applicant for poundment or pit as required by this article shall del quires a receipt or signature confirmation, copies of this article, and the well plat to each of the following oposed to be located; (2) The owners of record of the sed well work, if the surface tract is to be used for re- submitted pursuant to subsection (c) section seven (	iver, by personal service or by the application, the erosion and persons: (1) The owners of record of surface tract or tracts overlying the pads or other land disturbance as

described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code, (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

	ACE OWNER(s)	COAL OWNER OR LESSEE
Name:	George & Rosanne Schoen	Name:
Address:	PO Box 158	Address:
	Lost Creek, WV 26385	
Name:		COAL OPERATOR
Address:		Name;
		Address:
SURFA	ACE 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
Name:	Joseph Queen	Address: 400 Justice Avenue
Address:	P. O. Box 531	Logan, WV 25601
	Lost Creek, WV 26385	OPERATOR OF ANY NATURAL GAS STORAGE FIE
I SURFA	ACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Ronald Waldren
Name:		Address: 925 White Oaks Blvd
Address:		Bridgeport, WV 26330
		*Please attach additional forms if necessary

RECEIVED Office of Oil and Gas

JAN 06 2021

4703306002 APINO. 47-

OPERATOR WELL NO. Schoen 1205 Well Pad Name: Schoen 1205

#### Notice is hereby given:

#### WV Department of Environmental Protection

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

#### This Notice Shall Include:

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

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

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

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

#### Well Location Restrictions

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

## 4703306002

API NO. 47-\_\_\_\_ 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: Original Code Original Code Original Code Original Code Original Code Original Code

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

JAN 06 2021 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.

### 4703306002

API NO. 47-\_\_\_\_ OPERATOR WELL NO. scheen 1205 N-1H to S-101/ Well Pad Name: Schoen 1205

#### 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 <u>http://www.dep.wv.gov/oil-and-gas/Horizontal-</u> <u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

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

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

RECEIVED Office of Oil and Gas

WV Department of Environmental Protection

### 4703306002

API NO. 47-	-	
OPERATOR WE	LL NO	Schoen 1205 N-1H to S-10H
Well Pad Name:	Schoen 12	205

#### Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LL	С
Telephone:	304-420-1119	
Email:	dwhite@hgenergyllc.com	Diane White

Address: 52	60 Dupont Road	
P	arkersburg, 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 <u>depprivacyofficer@wv.gov</u>.

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

Subscribed and sworn befare m	ethis <u>1st</u> day of ser	Nember, 2020
the	/	Notary Public
My Commission Expires	4/26/2	02.5

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JAN 06 2021

WV Department of Environmental Protection

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 Office of Oil and Gas

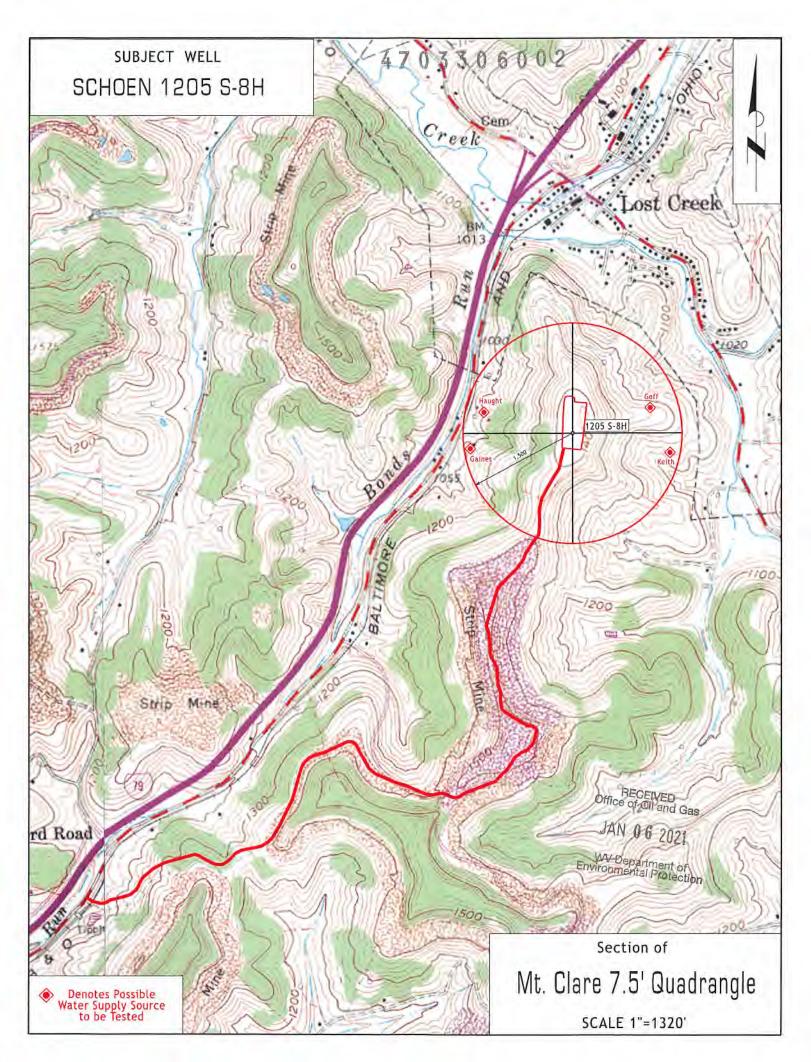
JAN 06 2021

WV Department of Environmental Protection

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



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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date Permit Application Filed: 01/11/2021 Date of Notice: 12/28/2020

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

CERTIFIED MAIL - HAND RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

#### Notice is hereby provided to the SURFACE OWNER(s):

Name:	George & Rosanne Schoen	Name:	
and the second second second	PO Box 158	Address:	
	Lost Creek, WV 26385		

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTN
County:	Harrison	
District:	Grant	Pub
Quadrangle:	Mount Clare	Gen
Watershed:	Middle West Fork Creek	

Easting: **NAD 83** Northing: c Road Access: rally used farm name:

555986.976 4333800.330 McWhorter Road / SR19 Schoen

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

#### Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	Authorized Representative:	Diane White	Diane white
Address:	5260 Dupont Road	Address:	Address: 5260 Dupont Road	ł
	Parkersburg, WV 26101		Parkersburg, WV	26101
Telephone:	304-420-1119	Telephone:	304-420-1119	
Email:	dwhite@hgenergyllc.com	Email:	dwhite@hgenergy	llc.com
Facsimile:	304-863-3172	Facsimile:	304-863-3172	

#### Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas JAN 06 2021 WV Department of Environmental Protection

Operator Well No. Schaen 1205 NIH to S-10H

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

ce Time Requirement: notice shal	l be provided no Date Permit A	o later than the fi pplication Filed	ling date of permit application : 01/11/2021	n. RECEIVED
very method pursuant to West Vi			Office of Oil and Gas	JEN 06 2021
CERTIFIED MAIL		HAND	JAN 06 2021	Protection
RETURN RECEIPT REQUESTE	ED	DELIVERY	WV Department of Environmental Protection	rotection

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

George & Rosanne Schoen	Name:
PO Bax 158	Address:
Lost Creek, WV 26385	
F	PO Box 158

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	555986.976	
County:	Harrison	U IIVI NAD 85	Northing:	4333800.330	_
District:	Grant	Public Road Ac	cess:	McWhorter Road / SR 19	
Quadrangle:	Mount Clare 7.5'	Generally used	farm name:	Schoen	
Watershed:	Middle West Fork Creek				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	HG Energy II Appalachia, LLC		Address:	5260 Dupont Road	
Telephone:	304-420-1119			Parkersburg, WV 26101	
Email:	dwhite@hgenergyllc.com	Diane White	Facsimile:	304-863-3172	

#### Oil and Gas Privacy Notice:

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

#### 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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 12/28/2020 Date Permit Application Filed: 01/11/2021 RECEIVED Office of Oil and Gas

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

CERTIFIED MAIL HAND RETURN RECEIPT REOUESTED DELIVERY

WV Department of Environmental Protection

JAN 06 2021

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

#### Notice is hereby provided to the SURFACE OWNER(s):

	George & Rosanne Schoen	Name:
	PO Box 158	Address:
	Lost Creek, WV 26385	

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	TITMANAD 02	Easting:	555986.976	
County:	Harrison	UTM NAD 83	Northing:	4333800.330	
District:	Grant	Public Road Acc	cess:	McWhorter Road / SR19	
Quadrangle:	Mount Clare	Generally used f	arm name:	Schoen	
Watershed:	Middle West Fork Creek				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

#### Notice is hereby given by:

Well Operator:	HG Energy II Appalachia, LLC	Authorized Representative:	Diane White Diane White
Address:	5260 Dupont Road	Address:	5260 Dupont Road
	Parkersburg, WV 26101		Parkersburg, WV 26101
Telephone:	304-420-1119	Telephone:	304-420-1119
Email:	dwhite@hgenergyllc.com	Email:	dwhite@hgenergyllc.com
Facsimile:	304-863-3172	Facsimile:	304-863-3172

#### **Oil and Gas Privacy Notice:**

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

WW-6A5 (1/12)

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

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

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

JAN 06 2021

CERTIFIED MAIL
RETURN RECEIPT REOUESTED

HAND DELIVERY WV Department of Environmental Protection

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

#### Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:	George & Rosanne Schoen	Name:
Address:	PO Box 158	Address:
	Lost Creek, WV 26385	
-		

#### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	LITS ANIAD 02	Easting:	555986.976	
County:	Harrison	- UTM NAD 83	Northing:	4333800.330	
District:	Grant	Public Road Acc	ess:	McWhorter Road / SR 19	
Ouadrangle:	Mount Clare 7.5'	Generally used f	arm name:	Schoen	
Watershed:	Middle West Fork Creek				

#### This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	HG Energy II Appalachia, LLC		Address:	5260 Dupont Road	
Telephone:	304-420-1119			Parkersburg, WV 26101	
Email:	dwhite@hgenergyllc.com	Diane White	Facsimile:	304-863-3172	

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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

RECEIVED Office of Oil and Gas

JAN 06 2021

WV Department of Environmental Protection 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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Schoen 1205 Pad, Harrison County Schoen S-8H 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,

low

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

RECEIVED Office of Oil and Gas JAN 06 2021

WV Department of Environmental Protection

### HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Schoen 1205 Well Pad (N-1H to N-6H, S-7H to S-11H)

Chemical Name	CAS #	Multiple CAS #'s
		00554 40 0
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
	-	68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
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	

OPERATOR: HG Energy II Appalachia, LL WELL NO: Schoen 1205 S-8H

PAD NAME: Schoen 1205

REVIEWED BY: Diane White

SIGNATURE: Diane White

#### WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

RECEIVED Office of Oil and Gas

Well Restrictions

 $\checkmark$ 

WV Department of Covircomental Protection

At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR

 $\checkmark$ 

DEP Waiver and Permit Conditions

At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR

DEP Waiver and Permit Conditions

At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR

**DEP** Waiver and Permit Conditions

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At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR



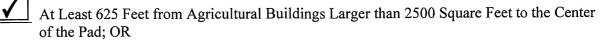
Surface Owner Waiver and Recorded with County Clerk, OR

\_\_\_\_ DEP Variance and Permit Conditions

At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR

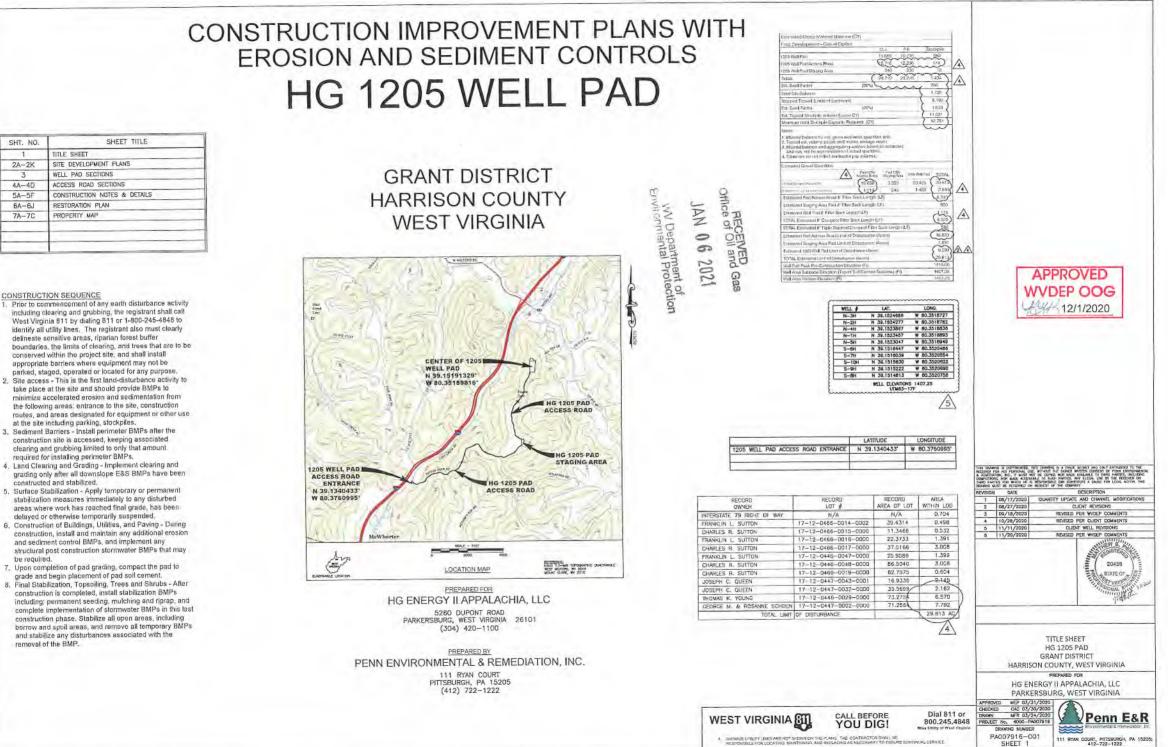
Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions



Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions

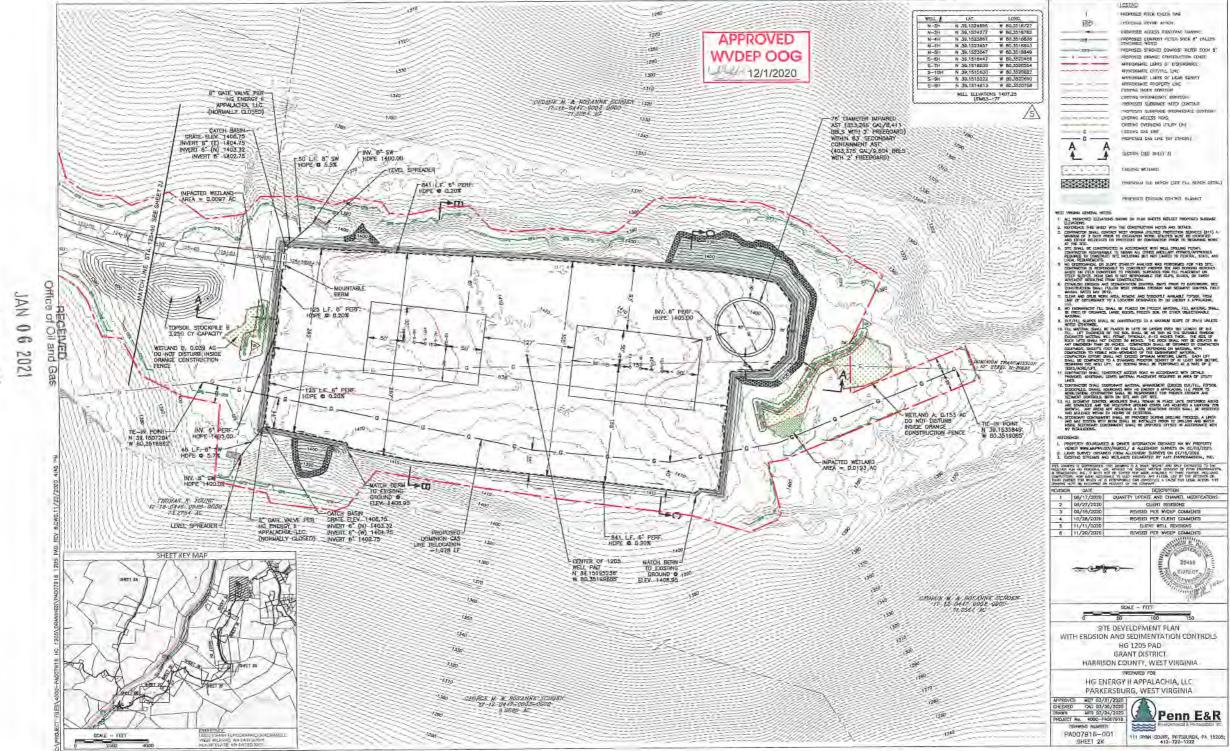


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#### CONSTRUCTION SEQUENCE

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
- take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles,
- construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.
- grading only after all downslope E&S BMPs have been constructed and stabilized
- stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may by required.
- grade and begin placement of pad soil cement.
- construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.



WV Department of Environmental Protection

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