

west virginia department of environmental protection

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

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

Thursday, February 25, 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-6H 47-033-06003-00-00

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:

SCHOEN 1205 S-6H Farm Name: SCHOEN, GEORGE

U.S. WELL NUMBER: 47-033-06003-00-00

Horizontal 6A New Drill Date Issued: 2/25/2021

Promoting a healthy environment.

API Number:	
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PERMIT CONDITIONS

4703306003

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.

	ons

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

API Number:	

PERMIT CONDITIONS

4703306003

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

WW-6B (04/15) API NO. 47-033 - 0 6003

OPERATOR WELL NO. Schoen 1205 S-6H

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	II Appal	achia, L	494519932	Harrison	Grant	Mount Clare 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's Wel	l Number: So	hoen 12	05 S-6H	Well P	ad Name: S	choen 1205	
3) Farm Name/Su	rface Owner:	George	Schoer	Public Re	oad Access:	McWhorter F	Road / SR25
4) Elevation, curre	ent ground:	1410'	El	evation, propose	d post-consti	ruction: 1407	
) Gas <u>x</u> ther		Oil _	Un	derground S	torage	
(b			x	Deep			- SDW 1/12/21
6) Existing Pad: Y				-			1/12/21
7) Proposed Targe	et Formation(s), Depth(ipated Thickness Anticipated press			
8) Proposed Total	Vertical Dept	h: 7240	•				
9) Formation at To	otal Vertical I	Depth: N	1arcellus	5			
10) Proposed Tota	al Measured D	epth: 2	2,544'				RECEIVED
11) Proposed Hori	izontal Leg Lo	ength: 1	3,939'				IAN a r
12) Approximate	Fresh Water S	trata Dep	ths:	135', 480', 640)', 728'		2 1 2021
13) Method to Det	termine Fresh	Water D	epths:	Nearest offset w	ell data		An Unpullmen of Environmental Projection
14) Approximate	Saltwater Dep	ths: <u>17</u>	30, 1780	, 2010			, ,
15) Approximate	Coal Seam De	epths: 50	1, 650',	730', 736' (Surf	ace casing is	s being extend	led to cover the coal
16) Approximate	Depth to Poss	ible Void	(coal m	ine, karst, other):	None		
17) Does Proposed directly overlying						No X	
(a) If Yes, provide	de Mine Info:	Name:					
		Depth:					
		Seam:					
		Owner					

WW-6B (04/15) 4703306003

OPERATOR WELL NO. Schoen 1205 S-6H
Well Pad Name: Schoen 1205

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1200'	1200'	40% excess,CTS
Intermediate I	13 3/8"	NEW	J-55	68	2100'	2100'	40% excess,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	2950'	2950'	40% excess tail, CTS
Production	5 1/2"	NEW	P-110	23	22544'	22544'	20% excess tail, CTS
Tubing							
Liners							

SDW 1/13/21

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Load 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excusa, Tell 0% Excess 100
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% oxcoss year = 1.19, and year 1.24.0
Tubing							E2
Liners						0.4	RECEIVED

Office of Oil and Gas

JAN 25 2021

PACKERS

WV Department of Environmental Protection

Kind:		
Sizes:		
Depths Set:		

4703306003

WW-6B (10/14) API NO. 47-____OPERATOR WELL NO. Schoen 1205 S-6H
Well Pad Name: Schoen 1205

19)	Describe p	proposed	well	work.	incl	uding	the	drilling	g and	plugging	g 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 13,939' lateral length, 22,544' TMD. Hydraulically fracture stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

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

No centralizers will be used with conductor casing.
Frashwater - centralized every 3 joints to surface.
Cad - Bow Spring on every joint, will also be running ACP for isolating storage zone
Intermediate - Bow Spring on first 2 joints then every third joint to 100 from surface.
Intermediate - Bow Spring on first 2 joints then every third joint to 100 from surface.
Froduction - Run 1 sprind centralizer every 5 joints from the top of the curve.

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

Conductor -NVA, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water -15.6 ppg PNE-1 + 23% bwcc CaCld, 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwc CaCld zero% Excess. CTS'
Intermediate 1 - 1-ead: 15.4 ppg PNE-1 + 2.5% bwcc CaCld/0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwcc CaCld zero% Excess. CTS'
Intermediate 2 - 1-ead: 15.4 ppg PNE-1 + 2.5% bwcc CaCld/0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwcc CaCld zero% Excess. CTS'
Intermediate 2 - 1-ead: 15.4 ppg PNE-1 + 2.5% bwcc CaCld/0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwcc CaCld zero% Excess. CTS'
Intermediate 2 - 1-ead: 15.4 ppg PNE-1 + 2.5% bwcc CaCld/0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwcc CaCld zero% Excess. CTS'
Intermediate 2 - 1-ead: 15.4 ppg PNE-1 + 2.5% bwcc R3 + 10.5 ppg PNE-1 + 2.5% bwcc CaCld/0% Excess. CTS'
Intermediate 2 - 1-ead: 15.4 ppg PNE-1 + 2.5% bwcc R3 + 10.5 ppg PNE-1 +

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JAN 25 2021

25) Proposed borehole conditioning procedures:

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

termediate - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole ovolume prior to pumping cement.
orduction - Once on bottomTD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cem

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

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

laterial Name	Material Type	A THE STATE OF THE	CAS#	la.	loss
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1 1305-78-8
		early compressive	Calcium oxide Magnesium oxide	1-5	1309-48-4
	3.35	strength properties.	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
remium NE-1	Portland Cement				
		Commonly called gel, it is	V		
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	Crystalline sillca: Quartz (SiO2)	5 - 10	14000-00-2
		water.			
ntonite	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			
		of strength development			
clum Chloride	Accelerator				
			-	Tu.	CAS
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
	the state of the state of	a lost circulation material.			
lo Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in		le:	lasa.
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing alr			
		entrapment and			
		preventing foaming			
		tendencies of latex			
		systems.			
-13L	Foam Preventer				
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
anulated Sugar	Retarder	returns at surface.			
		A proprietary product			
		that provides expansive			
		properties and improves	2 E	164	CAS number
		bonding at low to	Ingredient name	%	37247-91-9
		moderate	Calcium magnesium oxide	90 - 100	01241-91-9
		temperatures.			
-1		Multi-purpose polymer			
		additive used to control	A STORY OF THE STORY	B.F.	CAS number
		free fluid, fluid loss,	Ingredient name	%	CAS number
		rheology, and gas	No hazardous ingredient		
PA-170	Gas Migration	migration.			
	and made and	110 20 100			
		A synthetic pozzolan,			
		(primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	Ingredient name	%	CAS number
		used to create	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		lightweight cement	Calcium oxide	1-5	Mice 1305-78-8
		slurries used as either a filler slurry or a sulfate			100
		resistant completion			IAN OF ARE
		cement.			JAN 25 2021
	Base	- Antionia			
(Fly Ash)					WV Department of
z (Fly Ash)		A low temperature		Env	
z (Fly Ash)		retarder used in a wide	Ingredient name	%	CAS number Up
z (Fly Ash)		fernice ases in a frida		40 - 50	Trade secret.
z (Fly Ash)		range of slurry	Organic acid salt		
z (Fly Ash)			Organic acid salt		
z (Fly Ash)		range of slurry			
	Retarder	range of slurry formulations to extend			
	Retarder	range of slurry formulations to extend			
	Retarder	range of slurry formulations to extend	Ingredient name	%	CAS number
	Retarder	range of slurry formulations to extend	Ingredient name 2-Butoxyethanol	% 20 - 30	CAS number 111-76-2
	Retarder	range of slurry formulations to extend the slurry thickening time.	Ingredient name 2-Butoxyethanol Proprietary surfactant	% 20 - 30 10 - 20 5 - 10	CAS number 111-76-2 Trade secret. 110615-47-9
oz (Fly Ash)	Retarder	range of slurry formulations to extend	Ingredient name 2-Butoxyethanol Proprietary surfactant D-Glucopyranose, ollgomeric, C10-16-alkyf glycosides Alkyarylsulfonate amine salt	% 20 - 30 10 - 20	CAS number 111-76-2 Trade secret.



1205 S-6H

Marcellus Shale Horizontal

201

		-					Miller		Harrison County, WV											
						1205 9	6-6H SH													
Fround El	levation		1407.	3'		1205	S-6H L													
Azn	n .		159.79	8°		1205 S-6H BHL				204137.45N 18263	67.12E									
WELLBORE I	DIAGRAM	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS									
1 1 1 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" w thickness									
			201	Fresh Water	0	135, 480, 640, 728		15.6 ppg PNE-1 + 3%	Controllinad auton 2	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" v									
	x	24"	20" 94# J-55	Coal	730	736	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with	thickness Burst=2110 psi									
×				Surface / FW	0	1200		Yield=1,20 / CTS		Fresh Water prior to pumping cement.	Buist-2110 psi									
								Lead; 15.4 ppg PNE-1 +	Bow Spring on every	Once casing is at setting										
		Contract to	13-3/8" 68#	Little/Big Lime	1467 / 1510	1482 / 1556	100 4 4 4 4 1000	2.5% bwoc CaCl 40% Excess / Tail: 15.9	joint *will also be running ACP for isolating storage zone*	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.4									
x	×	17.5"	J-55 BTC	Injun / Gantz (Storage)	1565 / 1900	1690 / 1970	Salt Polymer	ppg PNE-1 + 2.5% bwoc CaCl		minimum of one hole volume prior to pumping cement.	wall thickness Burst=3450 psi									
444				Intermediate 1	0	2100	0.030.00	zero% Excess. CTS												
x	x			Fifty / Thirty Foot	1993 / 2112	2093 / 2147		Lead: 15.4 ppg PNE-1 +		Once casing is at setting										
			100000	Gordon Stray / Gordon	2195 / 2250	2250 / 2310	AIR / KCL	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0.3									
		12.25"	9-5/8" 40# J-55 BTC	5th Sand	2440	2468	Salt	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	Circulate a minimum of one	wall thickness									
×	X		0,000,000	Warren	2835	2860	Polymer	CaCl	surface		Burst=3950 psi									
				Intermediate 2	0	2950		zero% Excess. CTS												
×	X	1		Speechley	3028	3162		ı	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer	Run 1 spiral centralizer		
		8.5" Vertical		Bradford	3342	3367	9.0ppg	1000 TO 1000	every 5 joints from the	ery 5 joints from the										
		U.D VOILIGAT		Benson	4420	4455	SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to		top of the curve to surface.	e to								
				1				bwoc R3 + 1% bwoc	carrace.	O Secretary Control of the										
				Rhinestreet	5872	6549		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc		Once on bottom/TD with casing, circulate at max										
			E 4 /01	Cashaqua	6549	6740		MPA170		allowable pump rate for at	Production casing = 0.4 wall thickness									
×	X	Lagran A	5-1/2" 23#	Middlesex	6740	6870	11.5ppg-	<u>Tail</u> : 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75		least 2x bottoms up, or until returns and pump	Burst=16240 psi									
		8,5" Curve	P-110 HP	West River	6870	7003	12.5ppg SOBM	gal/sk FP13L + 50%	Due d'aniert controlines	pressures indicate the hole	Note:Actual centralize schedules may be change									
			CDC HTQ	Burkett	7003	7048	SOBIN	bwoc ASCA1 + 0.5% bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	3 joints from the minimum of one hole que to ho	due to hole conditions									
		1 2 2		Tully Limestone	7048	7149		20% Excess	1st 5.5" long joint to the		IAN Onm									
				Hamilton	7149	7214		Lead Yield=1.19 Tail Yield=1.94	top of the curve.		eparu eparu									
				Marcellus	7214	7315	11.5ppg-	CTS												
		8.5" Lateral		TMD / TVD (Production)	22544	7240	12.5ppg SOBM				5 2021 Imenuor Protection									
×	X			Onondaga	7315		C.Juliano			×	To X									
	LP @ 724	40' TVD / 8605' MD	X	- 6	3.5" Hole - Cemente 5-1/2" 23# P-110 F		X	X	+/-139	39' ft Lateral	TD @ +/-7240' TVD +/-22544' MD									

PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK -GANTZ SAND

WELL NAME: Schoen 1205 S-6H

Well # Schoen 1205 S-6H

DISTRICT/COUNTY/STATE: Grant/ Harrison/ WV

Submitted

JOSH HINTON HG ENERGY, LLC DATE 1-14-2021

Approved

Dominion Energy Transmission

Dominion Energy Transmission

1-15-21

RECEIVED Office of Oil and Gas

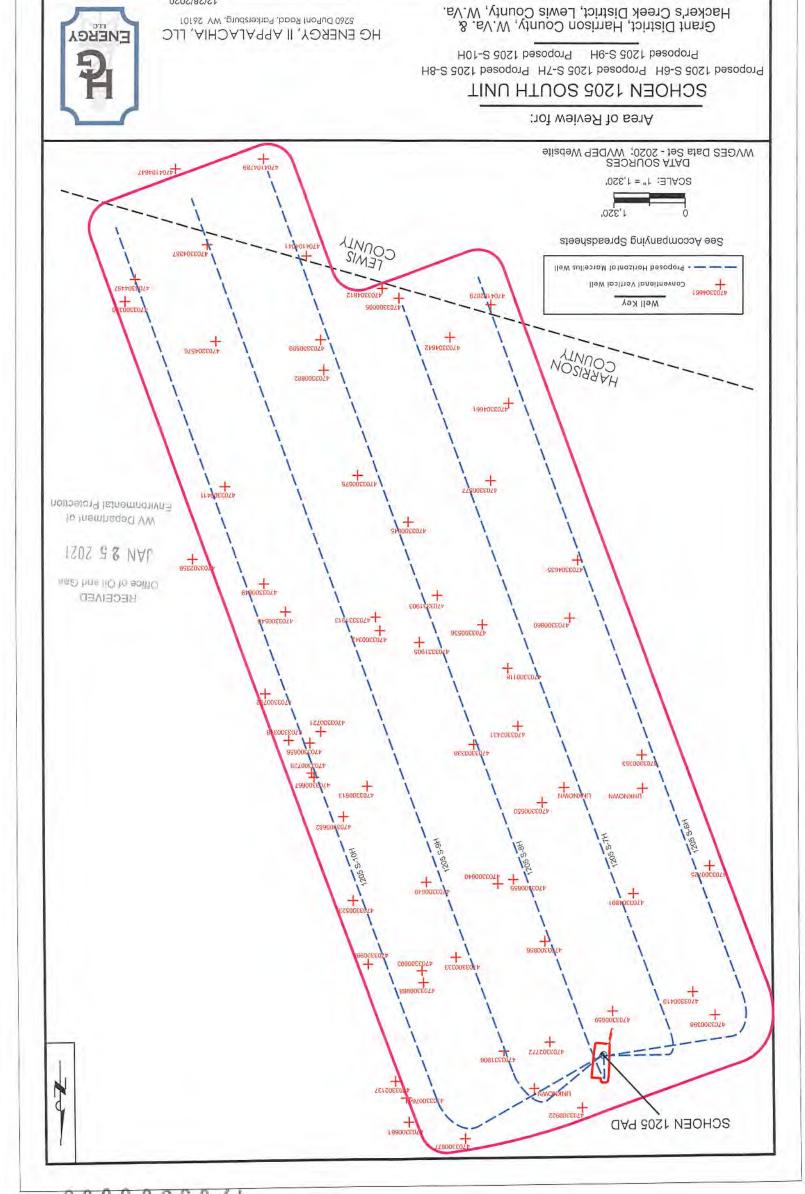
JAN 25 2021

Comments:

vvv Department of Environmental Protection

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

12/28/2020



EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

SCHOEN 1205 SOUTH UNIT AND PROPOSED WELLS S-7H, S-8H, S-9H, S-10H & S-11H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300095	Harrison	A B Jackson 1	Dominion Energy Transmission, Inc.	Fifth	Storage	2219	ACTIVE	39.113482	-80.340584
2	4703300118	Harrison	O F Allman 1	Dominion Energy Transmission, Inc.	Gantz	Storage	1679	ACTIVE	39.131942	-80.346144
3	4703300333	Harrison	James M Waggoner	UNKNOWN	Hampshire Grp	Gas	2165	PLUGGED	39.146495	-80.342517
4	4703300338	Harrison	F S Young	Dominion Energy Transmission Anc.	Gantz	Storage	1700	ACTIVE	39.135769	-80.343869
5	4703300342	Harrison	Asa Boyce	UNKNOWN	Fifth	Gas	2269	PLUGGED	39.129986	-80.337801
6	4703300348	Harrison	Sarah F Vincent	UNKNOWN	Hampshire Grp	Gas	2054	PLUGGED	39.135437	-80.331733
7	4703300350	Harrison	Viola Mount	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4370	PLUGGED	39.113273	-80.321297
8	4703300353	Harrison	G M Curry et al	Dominion Energy Transmission, Inc.	Gordon (undiff)	Storage	2047	ACTIVE	39.136407	-80.354852
9	4703300398	Harrison	J N Rector	UNKNOWN	Thirty-foot	Storage	2002	PLUGGED	39.149633	-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	1920	ACTIVE	39.122627	-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.	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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					YELLOW DENOT	TES WELL WITH TVD > 4,45	0.	GREEN DE	NOTES SURVEYED	WELLS
65	4704104789	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4452	ACTIVE	39.106148	-80,33043
64	4704104041	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4465	ACTIVE	39.111069	-80.33318
63	4704102879	Lewis	A S Holbert	Dominion Energy Transmission, Inc.	not available	Storage	2326	ACTIVE	39,113588	-80,34524
62	4703304635	Harrison	Charles R/F Sutton	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4660	ACTIVE	39.126514	-80,3507
61	4703300725	Harrison	W E Ware	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1985	ACTIVE	39.142073	-80.35920
				ADDITIONAL WELLS ADDED AS PER	UPDATED WVDEP DATA AND FI	ELD SURVEYS				
60	UNKNOWN	Harrison	Lloyd D. Swisher	UNKNOWN	UNKNOWN	not available	2209	UNKNOWN	39.137999	-80,3497
59	UNKNOWN	Harrison	Lloyd D Swisher 1656	UNKNOWN	UNKNOWN	not available	2036	UNKNOWN	39.138091	-80.3548
58	UNKNOWN	Harrison	J.J. Lewis	UNKNOWN	UNKNOWN	not available	11-14-1	PLUGGED	39.153186	-80.3475
57	4704104647	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4649	ACTIVE	39.106966	-80.3247
56	4703331913	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	UNKNOWN	not available	2345	PLUGGED	39.129301	-80.3375
55	4703331906	Harrison	F S Young	Dominion Energy Transmission, Inc.	Gantz	Storage	1910	ACTIVE	39.151283	-80.3455
54	4703331905	Harrison	M F Randolph CW422	Dominion Energy Transmission, Inc.	UNKNOWN	Storage	2182	UNKNOWN	39.130586	-80.3403
53	4703331903	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2164	ACTIVE	39.128236	-80.3415
52	4703304891	Harrison	Joseph C Queen	Dominion Energy Transmission, Inc.	not available	not available		PLUGGED	39.143411	-80.3541
51	4703304812	Harrison	Catherine Mauro	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4302	ACTIVE	39.112912	-80.3381
50	4703304661	Harrison	Gloria M Coward	Dominion Energy Transmission, Inc.	Benson	Gas	4350	ACTIVE	39.118568	-80.3463
49	4703304642	Harrison	Myrtle B Arobogast	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4453	ACTIVE	39.115232	-80.3426
48	4703304576	Harrison	Patricia B/Virginia L Smith	Dominion Energy Transmission, Inc.	Benson	Gas	4632	ACTIVE	39.115522	-80.3274
47	4703304457	Harrison	Wayne R Lewis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4420	ACTIVE	39.112332	-80.322
46	4703304387	Harrison	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4577	ACTIVE	39.110737	-80.3270
45	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	Gas	4427	ACTIVE	39.150855	-80.3485
44	4703302333	Harrison	J & F Allman	Dominion Energy Transmission, Inc.	Benson	Gas	4664	ACTIVE	39.134863	-80.3467
43	4703302157	Harrison	W D Dawson	Dominion Energy Transmission, Inc.	Benson	Gas	4374	ABANDONED	39,126266	-80.3255
41 42	4703300998	Harrison	M S Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4478	ACTIVE	39,152701	-80,3384
40	4703300988 4703300998	Harrison	S G Kennedy CW531	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1910	ACTIVE	39.146770	-80.3367
39	4703300940	Harrison Harrison	Susan Curry Levi B Davis CW431	Dominion Energy Transmission, Inc.	Fifth	Storage	2137	ACTIVE	39.142820 39.147749	-80.3453 -80.3403
38	4703300922	Harrison	A B Yost	Dominion Energy Transmission, Inc.	Benson Benson	Gas	4455 4256	ACTIVE	39.154204	-80.3506
37	4703300882	Harrison	Patricia B Smith	Dominion Energy Transmission, Inc.		Storage Gas	1965	ACTIVE		
36	4703300860	Harrison	Burgett Swisher CW470	Dominion Energy Transmission, Inc.	Fifty-foot	2	1925	ACTIVE	39.129447 39.117546	-80.3502 -80.3351
35	4703300856	Harrison	Susan V Curry CW472	Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc.	Thirty-foot Fifty-foot	Storage Storage	1950	ACTIVE	39.145753	-80.3483
34	4703300855	Harrison	Susan V Curry	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1877	ACTIVE	39.142614	-80.3463

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

WW-9 (4/16)

API Number 47 -		-
Operator's	Well No.	Schoen 1205 S-6H

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 Code 494501907
Watershed (HUC 10) Middle West Fork Creek	Quadrangle Mount Clare 7.5'
Do you anticipate using more than 5,000 bbls of water to Will a pit be used? Yes No	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wast	es; SDev
Land Application	es; SDCU 1/12/21
Underground Injection (UIC)	Permit Number
Reuse (at API Number_TBD-A Off Site Disposal (Supply form Other (Explain	
Will closed loop system be used? If so, describe: Yes, culting	gs and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and ho	rizontal)? Air, freshwater, oil based, etc. Vortical - Air, Air/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, e	tc. Synthetic
Additives to be used in drilling medium? Water, Soap, KC	I, Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, ren	noved offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium w	
-Landfill or offsite name/permit number? See Al	
	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the W provisions of the permit are enforceable by law. Violati law or regulation can lead to enforcement action. I certify under penalty of law that I have pers application form and all attachments thereto and that,	RECEIVED
est states	2 Office of Oil and Ga
Company Official (Typed Name) Diane White Company Official Title Agent	JAN 2 5 2021
Company Official Title	
Subscribed and sworn before me this 7th day	of January , 20 21
My commission expires 7/31/2022	Notary Public OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN 5301 13th Ave Vienna, WV 2610E My Commission Expires July 31, 20

Form WW-9

Proposed Revegetation Treati	ment: Acres Disturbed 29	9.465 Prevegetation pl	H
Lime	3 Tons/acre or to correct	to pH6.5	
Fertilizer type 10-	-20-20	_	
Fertilizer amount_	500	lbs/acre	
Mulch_ Hay	2 7	Γons/acre	
		Seed Mixtures	
Te	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit provided). If water from the particle and applications.	and proposed area for land applied, incluon area.	ng and completion process application (unless engineered plans include dimensions (L x W x D) of the pit, and	
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involv	and proposed area for land pit will be land applied, incluon area. ved 7.5' topographic sheet.	application (unless engineered plans inclu	
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by:	and proposed area for land applied, including area, area. Wed 7.5' topographic sheet.	application (unless engineered plans included imensions (L x W x D) of the pit, and	d dimensions (L x W), and area i
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed/	and proposed area for land pit will be land applied, incluon area. ved 7.5' topographic sheet. MO Word A	application (unless engineered plans included dimensions (L x W x D) of the pit, and see the control of the pit, and see the c	d dimensions (L x W), and area i
Attach: Maps(s) of road, location, pit provided). If water from the pacreage, of the land application Photocopied section of involved.	and proposed area for land pit will be land applied, incluon area. ved 7.5' topographic sheet. MO Word A	application (unless engineered plans included dimensions (L x W x D) of the pit, and see the control of the pit, and see the c	d dimensions (L x W), and area i
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Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed/	and proposed area for land pit will be land applied, incluon area. ved 7.5' topographic sheet. MO Word A	application (unless engineered plans included dimensions (L x W x D) of the pit, and see the control of the pit, and see the c	regulation.

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) 3237 US Highway 19 Cochranton, PA 16314 814-425-7773

Disposal Locations:

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

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

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

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071 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

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 25 2021

WV Department of Environmental Protection Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, 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 # 02-20758 6065 Arrel-Smith Road Lowelville, OH 44436 380-586-6825

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

Force, Inc. 1380 Rte. 286 Hwy. E, Suite 303 Indiana, PA 15701

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

Burns Drilling & Excavating 618 Crahapple Road P.O. Bow Wind Ridge, PA 15380 RECEIVED
Office of Oil and Gas

JAN 25 2021

WV Department of Environmental Protection

Nichlos 1-A (SWIW #18) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-829-7275

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 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 412-829-7275

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

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

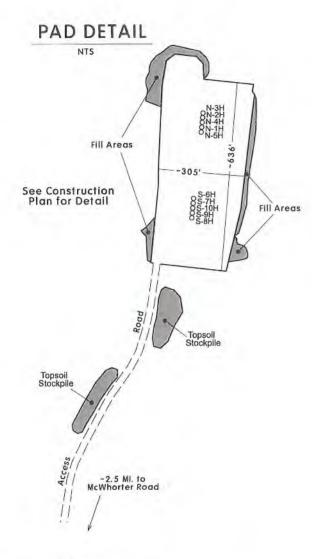
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

RECEIVED
Office of Oil and Ga.

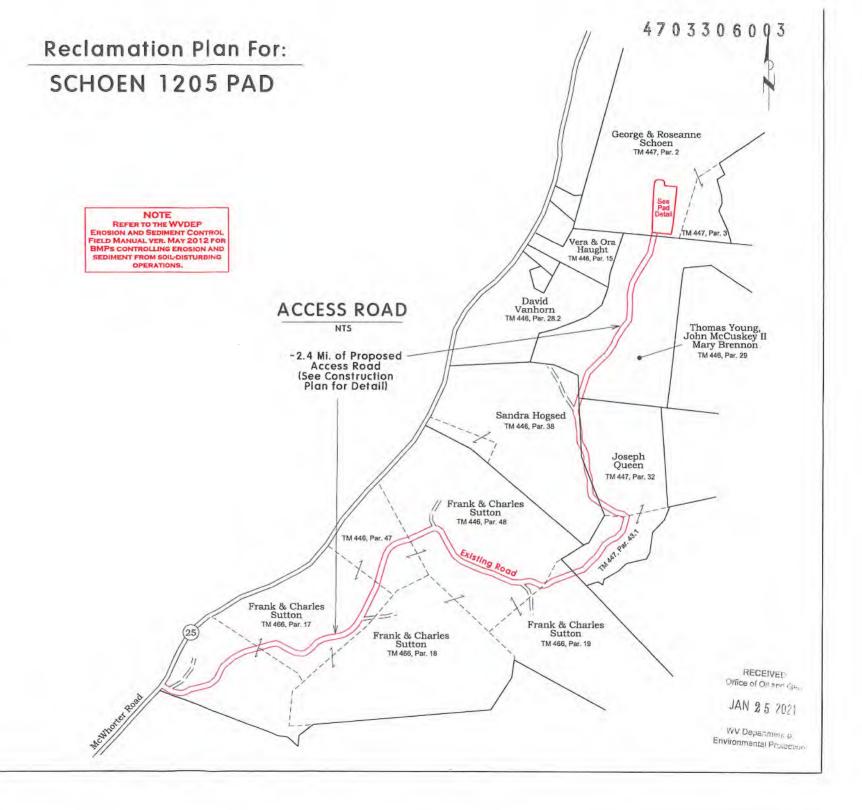
JAN 25 2021

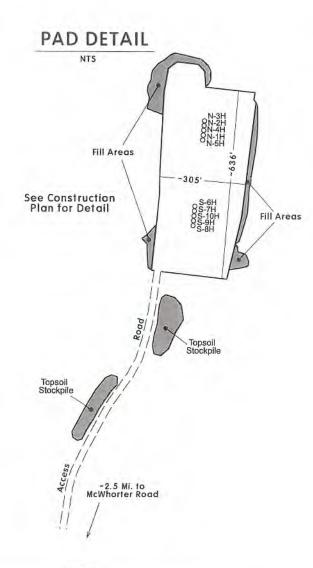
-: WV Department or Environmental Protection



Notes:

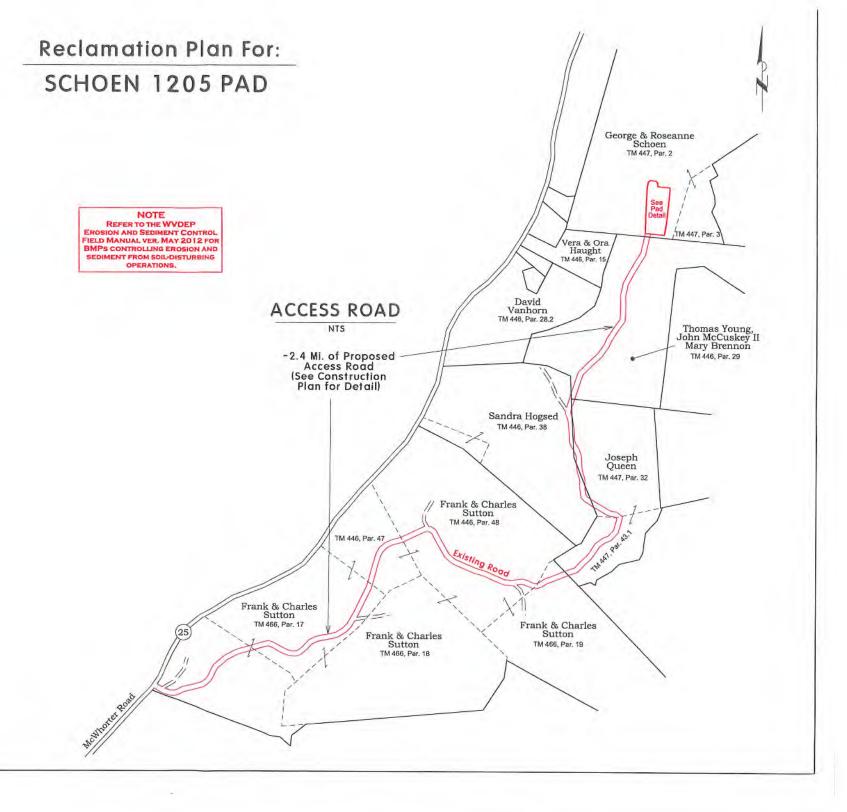
- REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELLS.
- LOCATION AND ACCESS ROADS WILL BE CONSTRUCTED AS SHOWN ON THE ENGINEERED DRAWINGS WHICH ACCOMPANY THIS PERMIT APPLICATION. REFERENCE IS HEREBY MADE TO THOSE PLANS FOR MORE DETAIL ON E&S MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH WYDEP RECLAMATION STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- No drill, pit will be constructed and a closed loop system will be utilized to handle drill cuttings.
- DRAWING NOT TO SCALE.





Notes:

- REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELLS.
- LOCATION AND ACCESS ROADS WILL BE CONSTRUCTED AS SHOWN ON THE ENGINEERED DRAWINGS WHICH ACCOMPANY THIS PERMIT APPLICATION. REFERENCE IS HEREBY MADE TO THOSE PLANS FOR MORE DETAIL ON E&S MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH WVDEP RECLAMATION STANDARDS.
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- NO DRILL PIT WILL BE CONSTRUCTED AND A CLOSED LOOP SYSTEM WILL BE UTILIZED TO HANDLE DRILL CUTTINGS.
- DRAWING NOT TO SCALE.



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

HG Energy II Appalachia, LLC

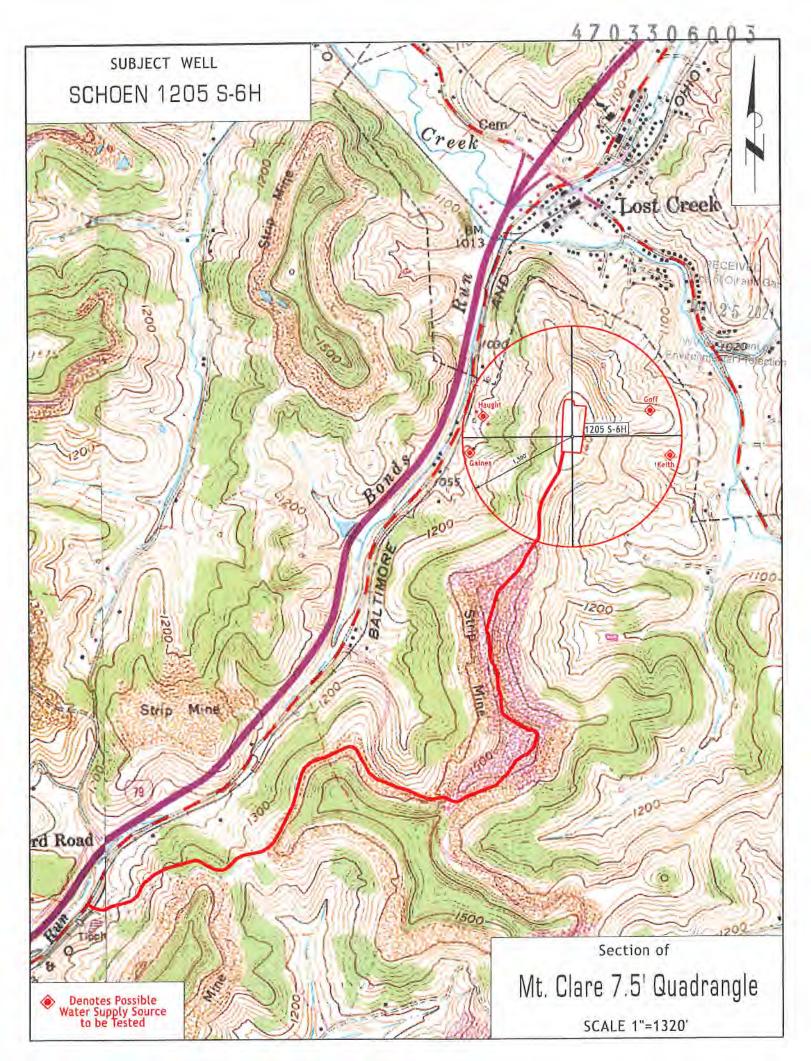
5260 Dupont Road

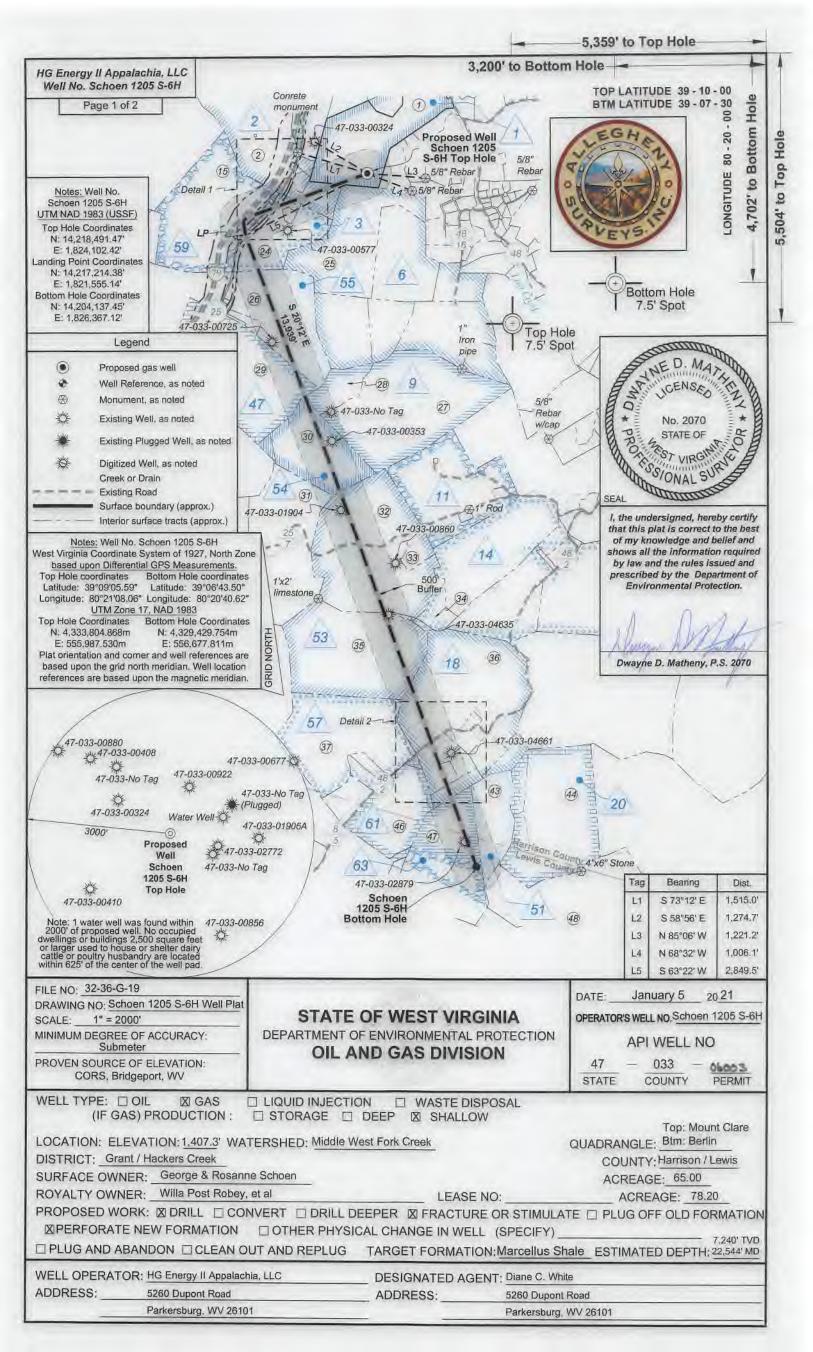
Parkersburg, WV 26101

RECEIVED
Office of Oil and Gas

JAN 25 2021

WV Department of Environmental Protection

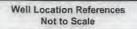




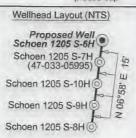
HG Energy II Appalachia, LLC Well No. Schoen 1205 S-6H

Page 2 of 2

		Harrison County		
No.	TM / Par	Owner	Bk / Pg	Ac.
1	447/2	George & Rosanne Schoen	1148 / 1059	65.00
2	446 / 7	James R. & Sharon L. Allman	1437 / 165	91.97
3	446 / 10	Karen A. Hayes	1397 / 1136	0.25
4	446 / 11	Mildred Dean	1060 / 270	0.41
5	446 / 13.1	Mack & Thelma Samples	1578 / 761	0.21
6	446 / 13	Kimberly Vanscoy	1306 / 5	0.27
7	446 / 14	Lisa Dawn Grogg	1583 / 301	0.14
8	446 / 25	Lisa Dawn Grogg	1583 / 301	0.08
9	446 / 26.1	Robert Mendez Jr.	1435 / 330	0.18
10	446 / 24.5	Brooke & Lillie Swisher	1432 / 856	0.15
11	446 / 24.1	Brooke & Lillie Swisher	1432 / 856	0.15
12	446 / 24.4	Brooke & Lillie Swisher	1432 / 856	0.03
13	446 / 24.2	Daniel & Mary L. Frazier	W165 / 1065	0.20
14	446 / 24.3	Mark & Karen Wilt	1157 / 579	0.58
15	446 / 24	Robert N. Rector	1621 / 719	82.90
16	446 / 28.1	Andrew Schrader & Melinda Davis	1478 / 252	1.28
17	446 / 28.3	Sharon Willie	1349 / 1253	0.45
18	446 / 28	Larry E. Wilson II	1344 / 1211	0.57
19	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
20	446 / 12	Marilyn Gaines	1192 / 300	2.93
21	446 / 15	Vera E. Oral K. Haught	1582 / 896	14.40
22	446 / 28.5	Robert L. Vanhorn	1352/91	1.52
23	446 / 28.4	Bradford Vanhorn	1381 / 1181	1.52
24	446 / 28.2	David D. Vanhorn, et al	W177 / 92	42.66
25	446 / 29	John F. McCuskey II, et al	1121 / 25	75.00
26	446 / 38	Sandra J. Hogsed	1257 / 137	70.16
27	447 / 43	Betty J. & Isaac H. Maxwell III	1543 / 141	123.95
28	447 / 43.1	Joseph C. Queen	1349 / 508	17.16
29	446 / 48	Charles R. & Franklin L. Sutton	+/	88.00
30	466 / 19	Charles R. & Franklin L. Sutton	/	63.00
31	466 / 38	Charles R. & Franklin L. Sutton	1342 / 1173	123.00
32	467 / 29.1	Charles R. & Franklin L. Sutton	/	129.61
33	467 / 29	Gretna J. Adkins	1207 / 424	8.39
34	467 / 30.1	Charles R. & Franklin L. Sutton	+/	11.05
35	466 / 56	Charles R. & Franklin L. Sutton	/	110.00









10	Lease
4	A.B. Post, et al
2	H.D. & Marcella R. Bond, et al
3	Emma A. Waggoner, et al
8	Susan V. Curry & Ida M. Curry
9	L.D. & Addie Swisher
11	P.T. Allman
14	M.M.F. & S.F. Randolph
18	Sidney Cookman, et al
20	Alcinda B. & M.E. Jackson
47	G. Manley Curry, et ux
51	J.W. & Sarah Lewis
52	A.S. Holbert
53	B. & I.M. Swisher
54	G. Manley Curry, et ux
55	Willa E. Ware, et al
57	Alcinda B. & M.E. Jackson
59	J.N. & Julia E Rector
61	Ella Goodwin, eLal
63	N.J. Melton

		Harrison County		
No.	TM / Par	Owner	Bk / Pg	Ac.
36	466 / 49	Charles R. & Franklin L. Sutton	/	105.17
37	466 / 71	Joyce A. & Vernon D. Cochran, Jr.	1253 / 240	91.79
38	487 / 2.1	Travis & Lauren J. Williston	1576 / 490	5.00
39	467 / 50	David L. & Celia K. Radcliff	1314 / 1289	6.00
40	487 / 2.2	Travis & Lauren J. Williston	1576 / 490	5.12
41	487 / 2	Mark Hutson	1410 / 156	10.17
42	487 / 10	Donley W. & Mark Hutson	1410 / 164	6.85
43	487 / 3	Myrtle B. Arbogast	W148 / 426	29.17
44	487 / 4.1	Catherine A. Mauro	1244 / 135	95.45
		Lewis County		- 12.2
45	9C / 41,1	Leonard C. & Cynthia L. Riley	502 / 502	1.00
46	9C / 41	Elizabeth Hicks	W26 / 481	47.37
47	10C/2	Myrtle B. Arbogast	W17 / 218	78.64
48	10C / 11	Thomas C. Kennedy Testamentary Trust	W34 / 428	92.50





DRAWING NO: Schoen 1205 S-6H Well Plat SCALE: 1" = 2000" MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

January 5 2021 DATE: OPERATOR'S WELL NO. Schoen 1205 S-6H

API WELL NO

47 033 STATE COUNTY

06003 PERMIT

☐ WASTE DISPOSAL WELL TYPE: □ OIL X GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

Top: Mount Clare QUADRANGLE: Btm: Berlin

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek DISTRICT: Grant / Hackers Creek SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

ACREAGE: 78.20

COUNTY: Harrison / Lewis

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

TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,544' MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

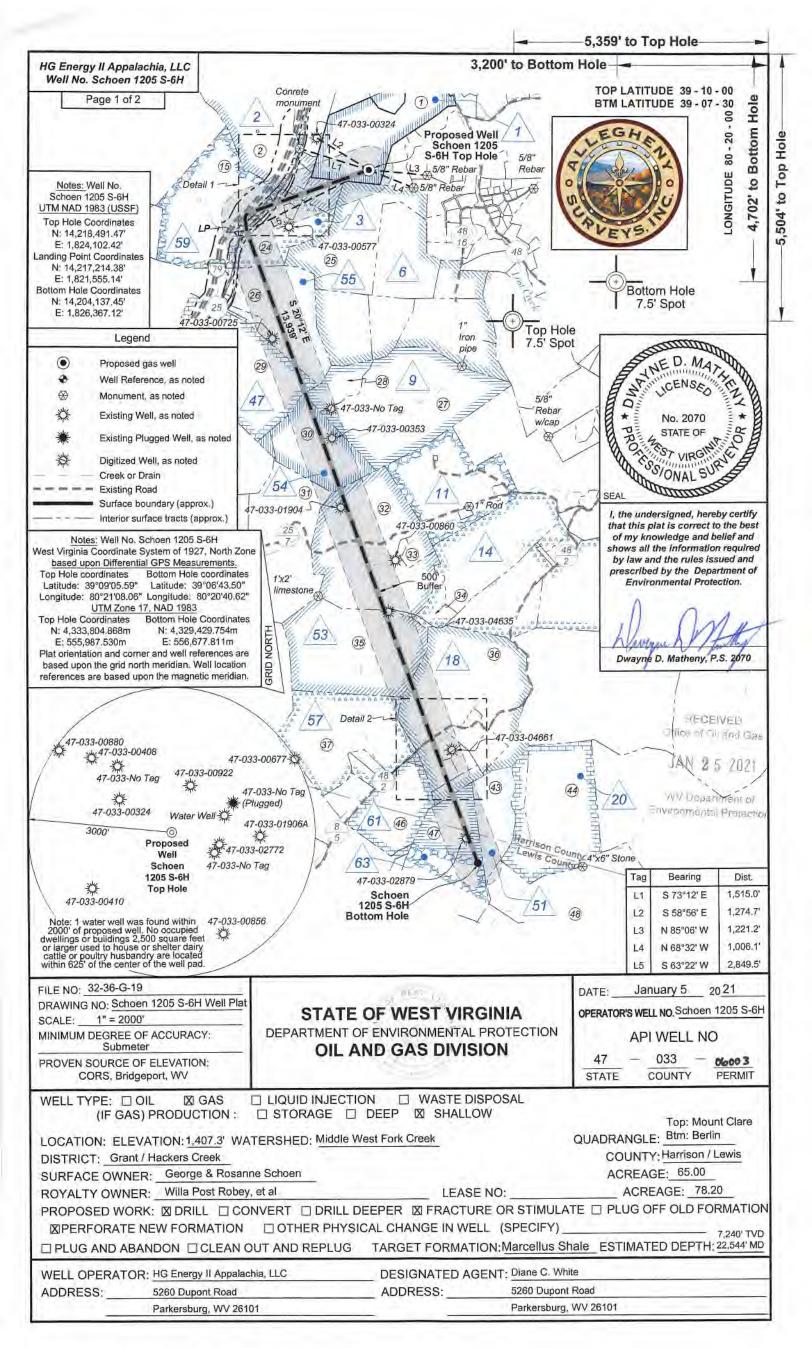
WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS:

DESIGNATED AGENT: Diane C. White

5260 Dupont Road Parkersburg, WV 26101

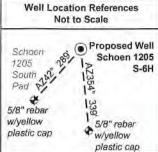
5260 Dupont Road ADDRESS: Parkersburg, WV 26101

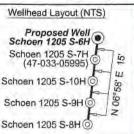


HG Energy II Appalachia, LLC Well No. Schoen 1205 S-6H

Page 2 of 2

		Harrison County		
No.	TM / Par	Owner	Bk/Pg	Ac.
1	447/2	George & Rosanne Schoen	1148 / 1059	65.00
2	446 / 7	James R. & Sharon L. Allman	1437 / 165	91,97
3	446 / 10	Karen A. Hayes	1397 / 1136	0.25
4	446 / 11	Mildred Dean	1060 / 270	0.41
5	446 / 13.1	Mack & Thelma Samples	1578 / 761	0.21
6	446 / 13	Kimberly Vanscoy	1306/5	0.27
7	446 / 14	Lisa Dawn Grogg	1583 / 301	0.14
8	446 / 25	Lisa Dawn Grogg	1583 / 301	0.08
9	446 / 26.1	Robert Mendez Jr.	1435 / 330	0.18
10	446 / 24.5	Brooke & Lillie Swisher	1432 / 856	0.15
11	446 / 24.1	Brooke & Lillie Swisher	1432 / 856	0.15
12	446 / 24.4	Brooke & Lillie Swisher	1432 / 856	0.03
13	446 / 24.2	Daniel & Mary L. Frazier	W165 / 1065	0.20
14	446 / 24.3	Mark & Karen Wilt	1157 / 579	0.58
15	446 / 24	Robert N. Rector	1621 / 719	82.90
16	446 / 28.1	Andrew Schrader & Melinda Davis	1478 / 252	1.28
17	446 / 28.3	Sharon Willie	1349 / 1253	0.45
18	446 / 28	Larry E. Wilson II	1344 / 1211	0.57
19	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
20	446 / 12	Marilyn Gaines	1192 / 300	2.93
21	446 / 15	Vera E. Oral K. Haught	1582 / 896	14.40
22	446 / 28.5	Robert L. Vanhorn	1352 / 91	1.52
23	446 / 28.4	Bradford Vanhorn	1381 / 1181	1.52
24	446 / 28.2	David D. Vanhorn, et al	W177 / 92	42.66
25	446 / 29	John F. McCuskey II, et al	1121 / 25	75.00
26	446 / 38	Sandra J. Hogsed	1257 / 137	70.16
27	447 / 43	Betty J. & Isaac H. Maxwell III	1543 / 141	123.95
28	447 / 43.1	Joseph C. Queen	1349 / 508	17.16
29	446 / 48	Charles R. & Franklin L. Sutton	/	88.00
30	466 / 19	Charles R. & Franklin L. Sutton	/	63.00
31	466 / 38	Charles R. & Franklin L. Sutton	1342 / 1173	123.00
32	467 / 29.1	Charles R. & Franklin L. Sutton	/	129.61
33	467 / 29	Gretna J. Adkins	1207 / 424	8.39
34	467 / 30.1	Charles R. & Franklin L. Sutton	/	11.05
35	466 / 56	Charles R. & Franklin L. Sutton	/	110.00

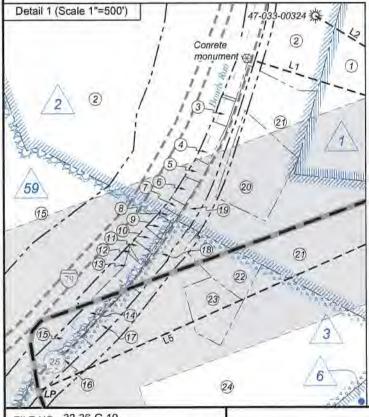






ID	Lease
1	A.B. Post, et al
2	H.D. & Marcella R. Bond, et al
3	Emma A. Waggoner, et al
6	Susan V. Curry & Ida M. Curry
9	L.D. & Addie Swisher
11	P.T. Allman
14	M.M.F. & S.F. Randolph
18	Sidney Cookman, et al
20	Alcinda B. & M.E. Jackson
47	G. Manley Curry, et ux
51	J.W. & Sarah Lewis
52	A.S. Holbert
53	B. & I.M. Swisher
54	G. Manley Curry, et ux
55	Willa E. Ware, et al
57	Alcinda B. & M.E. Jackson
59	J.N. & Julia E. Rector
61	Ella Goodwin, et al
63	N.J. Melton

		Harrison County		
No.	TM / Par	Owner	Bk / Pg	Ac.
36	466 / 49	Charles R. & Franklin L. Sutton	/	105.17
37	466 / 71	Joyce A. & Vernon D. Cochran, Jr.	1253 / 240	91.79
38	487 / 2.1	Travis & Lauren J. Williston	1576 / 490	5.00
39	467 / 50	David L. & Celia K. Radcliff	1314 / 1289	6.00
40	487 / 2.2	Travis & Lauren J. Williston	1576 / 490	5.12
41	487/2	Mark Hutson	1410 / 156	10.17
42	487 / 10	Donley W. & Mark Hutson	1410 / 164	6.85
43	487/3	Myrtle B, Arbogast	W148 / 426	29.17
44	487 / 4.1	Catherine A. Mauro	1244 / 135	95.45
		Lewis County		Link
45	9C / 41.1	Leonard C. & Cynthia L. Riley	502 / 502	1.00
46	9C / 41	Elizabeth Hicks	W26 / 481	47.37
47	10C/2	Myrtle B. Arbogast	W17 / 218	78.64
48	10C / 11	Thomas C. Kennedy Testamentary Trust	W34 / 428	92.50





FILE NO: 32-36-G-19 DRAWING NO: Schoen 1205 S-6H Well Plat 1" = 2000' SCALE: MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

DISTRICT: Grant / Hackers Creek

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

20 21 January 5 OPERATOR'S WELL NO. Schoen 1205 S-6H

API WELL NO

47 033 06003 STATE COUNTY PERMIT

WELL TYPE: □ OIL X GAS □ LIQUID INJECTION ☐ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek

Top: Mount Clare QUADRANGLE: Btm: Berlin COUNTY: Harrison / Lewis

ACREAGE: 65.00 ACREAGE: 78.20 LEASE NO:

ROYALTY OWNER: Willa Post Robey, et al. PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

7.240' TVD TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,544' MD ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG

WELL OPERATOR: HG Energy II Appalachia, LLC ADDRESS: 5260 Dupont Road

SURFACE OWNER: George & Rosanne Schoen

Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White

Parkersburg, WV 26101

5260 Dupont Road ADDRESS:

WW-6A1
(5/13)

Operator's Well N	Jo Schoen	1205 S-6H

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

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

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

Lease Name or				- 10
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Attached Sheets

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

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

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

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

Well Operator:	HG Energy II A	· · · · · · · · · · · · · · · · · · ·
Ву:	Diane White	Diane White
Its:	Accountant	

RECEIVE!

Page 1 of _

FEB 05 7311

WV Departor ...
Environmánta: Program

HG Energy II Appalachia, LLC - Schoen 1205 S-6H Lease Chain

205S 6H	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
				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;				
		1		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	
		1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		}	ļ	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		42 0447 0001 0000	l	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	!
1	LC074399	12-0447-0001-0000	Q100514000			FIRST AMENDMENT TO MEMORANDUM OF FARMOUT	1524	
		12-0447-0002-0000	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	AGREEMENT	1524	
		į		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
		}		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY ILC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%) ASSIGNMENT	1584	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1600	
		į.	İ	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		į.		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT		1
		ł		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	ı
				DOMINION ENERGY TRANSMISSION, INC.	ING ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT		1
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1621	<u> </u>
		12-0446-0007-000 et al		AND MARTHA DAVIS, HIS WIFE; GEORGIA A. BARNES, WIDOW; ALTHEA J. RANDOLPH, WIDOW; JANE D. POST AND JACOB S. POST, HER HUSBAND; ROXIE VEITH, SINGLE; JOHN A. VEITH, SINGLE; JOHN A. VEITH, SINGLE; BALLIS VEITH, SINGLE; GRACE VEITH, SINGLE; JESSIE S. DAVIS, WIDOW; JOHN B. GRUMBEIN, WIDOWER; JOHN D. PICKENS AND HELEN N. PICKENS, HIS WIFE; LOUISE B. BELCHER AND EARL J. BELCHER, HER HUSBAND; LEWIS E. DAVIS AND LENORE DAVIS, HIS WIFE; LETTA M. BOND, SINGLE; PAUL V. BOND AND EVALEEN K. BOND, HIS WIFE; EVERETT O. DAVIS AND RUTH M. DAVIS, HIS WIFE; G. M. BASSEL AND MAUDE S. BASSEL, HIS WIFE; CLETT MOUNTA AND HELEN MOUNT. HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	78:	
2	LC066976	12-0440-0007-000 et al	Q100894000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
		1	İ	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1130	
	l .		1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	5:	
		i	i	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	St	
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	152	2
	1		1			FIRST AMENDMENT TO MEMORANDUM OF FARMOUT		٦
	I	1		DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	AGREEMENT	152- 154	
	i	1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	157	
	l	Ì	i	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	158	
		1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT ASSIGNMENT	160	
	l			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	wvso	
1		1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT	******	1
× ×	1 -	RE	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	160	1
_	EB E	3 _	1	DOMINION ENERGY TRANSMISSION, INC.	FIG CHERGI II AF FADACINA, ESC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT		\top
W/ [ı	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	162	al .

П				EMMA A. WAGGONER, WIDOW; W. A. WAGGONER AND			İ	
- 1]			MINNIE WAGGONER, HIS WIFE; AND W. GEORGE				
- 1				WAGGONER AND VIRGINIA WAGGONER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	777	
- 1				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
1				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
1	1	12-0446-0028-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
1		12-0446-0028-0011		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
	LC066702	12-0446-0028 0002	Q101137000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
′ I	2000702	12-0446-0028-0003	4.02.207000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
- 1		12-0446-0028-0004		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
1		12-0446-0028-0005	1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	_
J			1	NOBLE ENERGY, INC.	ng evengrii Arracachia, coc	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT		
- 1						AGREEMENT	1601	
- 1			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT	1001	├─
- 1							1621	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT		-
				L. D. SWISHER AND ADDIE SWISHER, HISWIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	152	
1			1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
			1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
1	l l		1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
1			1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
			1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
			1	DOMINION TRANSMISSION, INC.	CNA GAS COMPANY CCC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT		_
	l				l		1524	ŀ
		12-0447-0043-0000	I	DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	AGREEMENT	1543	┝
	LC005124	12-0447-0043-0001	FK005124	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1576	-
		12-0447-0043-0001	l	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		<u> </u>
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	L.
	ì		1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	ட
1 1	1				SECOND AMENDMENT TO MEMORANDUM OF FARMOUT	1	1	
	}	1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	1
				DOMINION CITERO / (MANISMISSION) INC.	110011010111111111111111111111111111111	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT		Г
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1621	ı
			i	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	Т
						7,00,001		Ι-
	i i		i	SIDNEY COOKMAN; A. B. COOKMAN; I. S. COOKMAN; ALICE	1	1		l
			i	MCCARTNEY AND I. W. MCCARTNEY, HER HUSBAND;,	1	1	i	
	1	1		MAUD CLEAVENGER AND J. R. CLEAVENGER, HER	i	1 .		l
			Į.	HUSBAND; AND, P. B. COOKMAN	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	118	
			l .	SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	204	
	1		1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
	l	12-0467-0049-0000	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	L
	1	12-0467-0049-0001	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	1	12-0467-0050-0000	ł	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		12-0467-0051-0000	1		CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		12-0467-0051-0001	Q100617000	DOMINION TRANSMISSION, INC.	ICIA GAS COMPANT LLL	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT		1
	LC008461	12-0467-0051-0002	FEEHGII0041	L	language community		1524	1
	1	12-0487-0002-0000	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	AGREEMENT	1543	
	I	12-0487-0002-0001	I	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		
	Į	1	I	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
	1	12-0487-0002-0002	I	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
1	1	12-0487-0010-0000	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
	1	I	1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	1_
	ł	1	1			SECOND AMENDMENT TO MEMORANDUM OF FARMOUT		l
	1	ľ	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	L
		1	i	Townson and the state of the st		THIRD AMENDMENT TO MEMORANDUM OF FARMOUT		Г
	ł	1	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1621	1
			 	DOMINION ENERGY INCIDENCE, INC.	The state of the s			T
			1	I.	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	779	ı
		1	3			INGLESS LUNIN 1/0		
				G. MANLEY CURRY AND MARY GEORGIA CURRY, HIS WIFE			003	•
	a			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
	Çnviro Çnviro	Office					903 1136 51	

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						T	58	202
1 1					DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	1522	362 33
1 1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	35
1 1						FIRST AMENDMENT TO MEMORANDUM OF FARMOUT		
1 1		12-0446-0048-0000	0400000000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	AGREEMENT	1524	491
47	LC056762	12-0446-0048-0001	Q100806000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
1 1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
1 1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
1 1				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
1 1					DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
1 1						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT	ì	
1 1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	581
1 1						THIRD AMENDMENT TO MEMORANDUM OF FARMOUT	i	
1 1		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1621	1295
-				A. S. HOLBERT	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	44	223
		1		SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	73	272
1 1				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
1 1				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
1 1		1		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
			l	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
1			l	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
1		p/o 04-010C-0002-0000	0100545000		CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
52	LC009742	LEWIS COUNTY	Q100546000	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		1		CNX GAS COMPANY LLC	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1 1		1		DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA. LLC	ASSIGNMENT	722	170
				NOBLE ENERGY, INC.	ING ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT		
1			•		LUC CAUCDON II ADDALACUIA LLC	AGREEMENT	723	499
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT		
ł						AGREEMENT	734	558
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
L				DOMINION ENERGY TRANSMISSION, INC.		NOT LESS THAN 1/8	121	
1			1	B. SWISHER AND I. M. SWISHER, HIS WIFE	SOUTH PENN OIL COMPANY	ASSIGNMENT	204	
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	903	
1		1		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	1136	
1			Ì	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION		51	
i		1	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	58	
1 .			Į.	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	1522	
1		12-0466-0054-0000	I	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1543	123
53	LC008492	12-0467-0029-0000	Q100303000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1576	125
33	0.000432	12-0467-0029-0001	4.0030300	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1584	942
1		12-0407-0023-0001	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	WVSOS	344
1		1	1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE		69:
1		1	l	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69.
1		I	1		1	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT	1601	
1		l	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	58
1		i	l			THIRD AMENDMENT TO MEMORANDUM OF FARMOUT	1621	129
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1021	129
		T						
1	1	1	İ	G. MANLEY CURRY AND MARY GEORGIA CURRY, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	779	
1	1	1	1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
1	l	1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
1	l	1	1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
1	I	i	1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
i	1	1	1			FIRST AMENDMENT TO MEMORANDUM OF FARMOUT		
1	l	1	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	AGREEMENT	1524	
54	LC066761	12-0466-0019-0000	0100965000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
1 -	1		1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
1	f		1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
1	I		1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
1	l .	1	i	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	S
	I	1	1					

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l		i			1	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT	4001	
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	58:
1						THIRD AMENDMENT TO MEMORANDUM OF FARMOUT	1634	129
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1621	129
				WILLA E. WARE AND JOHN P. WARE, HER HUSBAND; AND				
1				THE HARRISON COUNTY BANK	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	1011	16
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
1				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:
1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	123
55	LC084263	12-0446-0038-0000	Q100951000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	12
		12-0446-0037-0000	••••	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69:
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSPIRESSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	58
				DOMINION ENERGY TRANSPISSION, INC.	ING ENERGY ITAFFALACTIA, LCC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1621	129
					TRI-STATE GAS COMPANY	NOT LESS THAN 1/8	139	43
				J. N. RECTOR AND JULIA E. RECTOR	TRI-STATE GAS CONFAINT	NOT LESS THAN 1/8		
				TRI-STATE GAS COMPANY, WHEELING NATURAL GAS	1	1		
				COMPANY AND THE MANUFACTURERS LIGHT AND HEAT		ASSIGNMENT	202	37
				COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	903	17
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	1136	25
		12-0446-0024-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
		12-0446-0024-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION		58	36
		12-0446-0024-0002		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT	1522	3
59	LC021469	12-0446-0024-0003	Q101114000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC		1543	123
		12-0446-0024-0004		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1576	123
		12-0446-0024-0005	i	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1584	94
		12-0446-0026-0001	}	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	WYSOS	34
		2201100000000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	1600	69
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT	4504	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	1601	58
					L	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT	1621	129
			<u> </u>	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT		
				N. J. MELLON, WIDOWER	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	243	4
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	8
	1			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
			1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wsos	<u></u>
	Ì			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
			1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	15
		}	,	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5
		04-010C-0002-0000	010100000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	84
63	LC066734	LEWIS COUNTY	Q101099000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	<u> </u>
		1	1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	<u> </u>
		1	ł	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	17
.]	1	1				SECOND AMENDMENT TO MEMORANDUM OF FARMOUT		l
	1	l	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	723	49
		1	I			THIRD AMENDMENT TO MEMORANDUM OF FARMOUT		1
		1						
			ĺ	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AGREEMENT	734 LEWIS 736	55 22

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Office of Oil and Gass

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

December 30, 2020

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

RE:

Drilling Under Roads - Schoen 1205 S-6H

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 certify to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which and Gas 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 <a href="https://dwh.en.gov/

WV Department of Environmental Protection

Very truly yours,

Diane White

Diane C. White

Enclosures

Date of Notice Certification: 01/13/2021

4703306003

API No. 47-____-

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

			Operator's	Well No. School	en 1205 S-6H
			Well Pad N	Name: Schoen	Well Pad
	e provisions in West Virginia Code §	22-6A, the Operator has prov	ided the rec	quired parties w	ith the Notice Forms listed
	tract of land as follows:		Easting:	555987.5	
State:	West Virginia	——— UTM NAD 83	Northing:	4333804.9	
County: District:	Harrison Grant	Public Road Acce		McWhorter Road	
Quadrangle:		Generally used fa		Schoen	
Watershed:	Middle West Fork Creek				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sized the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following info ped in subdivisions (1), (2) an ection sixteen of this article; (ii rvey pursuant to subsection (If this article were waived in ender proof of and certify to the	rmation: (1- nd (4), subs) that the re a), section writing by	4) A certification (b), section (b), section (c), section	on from the operator that (i) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice yner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY		nis Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or 🔳 NO PLAT SURVI	EY WAS C	ONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR IT WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER I (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION		RECEIV		RECEIVED
■ 5. PUE	BLIC NOTICE		Office of Oil		☐ RECEIVED
■ 6. NO	TICE OF APPLICATION		JAN 2 5		L RECEIVED
L		E:	nvironmenta	Protection	

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.

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, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

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



Subscribed and sworn before me this 13th day of January, 2021.

Cosmol Book Notary Public

My Commission Expires 7/31 2022

Oil and Gas Privacy Notice:

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

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WW-6A (9-13) API NO. 47-0 3 3 0 6 0 0 3

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

Well Pad Name: Schoen 1205

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

Notice Time Requirement: notice shall be provided no later than	tille thing date of permit application.	
Date of Notice: 11.23.20 Date Permit Application Filed: 11/25/	20	
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	ROVAL FOR THE N IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10(b)	
	DD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	
certificate of approval for the construction of an impoundment or pit registered mail or by any method of delivery that requires a receipt or sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, if described in the erosion and sediment control plan submitted pursuan operator or lessee, in the event the tract of land on which the well promore coal seams; (4) The owners of record of the surface tract or trace well work, if the surface tract is to be used for the placement, construint impoundment or pit as described in section nine of this article; (5) As have a water well, spring or water supply source located within one to provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section expression of this article to the contrary, notice to a lien holder is not a Code R. § 35-8-5.7.a requires, in part, that the operator shall also prowater purveyor or surface owner subject to notice and water testing a	r signature confirmation, copies of the application, the de well plat to each of the following persons: (1) The owners of record of the surface tract or tract the surface tract is to be used for roads or other land dist to subsection (c), section seven of this article; (3) The oposed to be drilled is located [sic] is known to be underest overlying the oil and gas leasehold being developed action, enlargement, alteration, repair, removal or abandancy surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well pad (6) The operator of any natural gas storage field within a tenants in common or other co-owners of interests desight, article one, chapter eleven-a of this code. (2) Notwood of the Well Site Safety Plan ("WSSP") to the surface ovide the Well Site Safety Plan ("WSSP") to the surface	erosion and vners of record of ets overlying the sturbance as e coal owner, erlain by one or by the proposed donment of any te applicant to which is used to which the cribed in scribed in the vithstanding any owner. W. Va.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice		
	COAL OWNER OR LESSEE	
Name: George & Rosanne Schoen	Name:	
Address: PO Box 158 Lost Creek, WV 26385	Address:	
	COAL OPERATOR	
	Name:	RECEIVED
radioss.	Address:	াগতিe of Oil and Gas
SURFACE OWNER(s) (Road and/or Other Disturbance)		
	☐ SURFACE OWNER OF WATER WELL	JAN 25 2021
Address: 4856 SW 95th	AND/OR WATER PURVEYOR(s)	
Gainesville, FL 32608	Name: Vera & Oral Haught	MAY Department of
Name: Joseph Queen	Address: 400 Justice Avenue	Savironmental Protection
Address: P.O. Box 531	Logan, WV 25601	
Lost Creek, WV 26385	OPERATOR OF ANY NATURAL GAS STORA	GE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Ronald Waldren	
Name:	Address: 925 White Oaks Blvd Bridgeport, WV 26330	
Address:	*Please attach additional forms if necessary	

WW-6A (8-13)

OPERATOR WELL NO. School Well Pad Name: Schoen 1205

Notice is hereby given:

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

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the crosion 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 English 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 5 Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oilму Осраптып от and-gas/pages/default.aspx. Environmental Protection

Well Location Restrictions

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

API NO. 474 7 0 3 3 0 6 0 0 3 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 CEIVED application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written comprisons described in West Virginia Code § 22-6A-10(b) may file written code § 22-6A-10(b) may file written code § 22-6A-10(b) may file written code § 2 location or construction of the applicant's proposed well work to the Secretary at: JAN 25 2021

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

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.

WW-6A (8-13)

OPERATOR WELL NO. 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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

> VVV Daparimench Saviroamelital Fralection

WW-6A (8-13)

API NO. 47-OPERATOR WELL Well Pad Name: Schoen 1205

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

304-420-1119 Telephone:

dwhite@hgenergyllc.com Email:

Address: 5260 Dupont Road

Parkersburg, WV 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 depprivacyofficer@wv.gov.

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

worn before methis 1 st day of September , 2020 Subscribed

Notary Public

My Commission Expires

RECEIVED Office of Oil aftir Gas

VVV 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

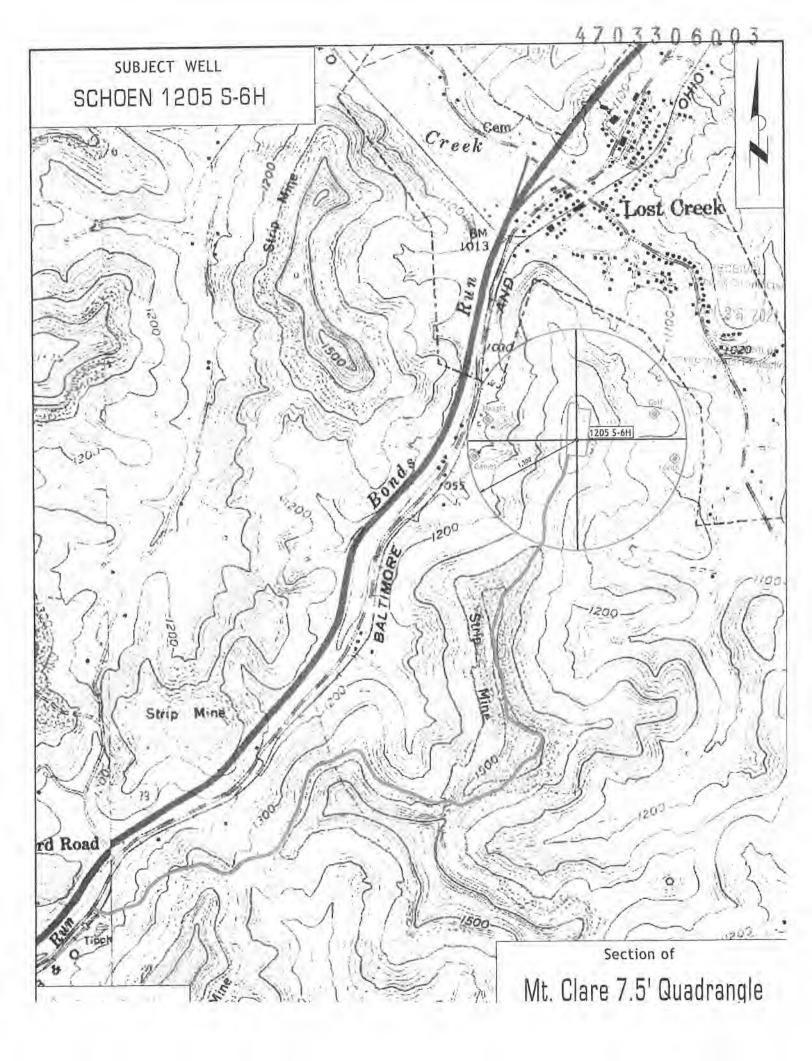
Stephen & Kimberly Goff 412 Hill Top Drive Lost Creek, WV 26385

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

Charles and Franklin Sutton 801 Worthington Drive Bridgeport, WV 26330

RECEIVED
Office of Oil and Gas

JAN 25 2021



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-

			aived in writing by the surface owner.
Notice Time Date of Notic	Requirement: Notice shall be provided	led at least TEN (10) days prior to filing a e Permit Application Filed: 01/11/2021	permit application.
Date of Ivolic	E. DECIDENT	10	
Delivery met	hod pursuant to West Virginia Coo	le § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
		REQUESTED	
DELIVE			
receipt request drilling a horion of this subsection materials.	ted or hand delivery, give the surface to the control well: Provided, That notice to tion as of the date the notice was properly be waived in writing by the surfactle, facsimile number and electronic in	e owner notice of its intent to enter upon the given pursuant to subsection (a), section to wided to the surface owner: <i>Provided, hower owner</i> . The notice, if required, shall included address of the operator and the operator	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever. That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE	OWNER(s):	
	ge & Rosanne Schoen	Name:Address:	
Address: PO E	Sox 158 Creek, WV 26385	Address.	
LOSE	Sieek, YVV 20303		
the surface or	vner's land for the purpose of drilling	g a horizontal well on the tract of land as to	ollows:
State: County:	West Virginia Harrison	g a horizontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing:	555986.976 4333800.330
State: County: District:	West Virginia Harrison Grant	UTM NAD 83 Easting: Northing: Public Road Access:	555986.976 4333800.330 McWhorter Road / SR19
State: County: District: Quadrangle:	West Virginia Harrison Grant Mount Clare	UTM NAD 83 Easting: Northing:	555986.976 4333800.330
State: County: District: Quadrangle:	West Virginia Harrison Grant	UTM NAD 83 Easting: Northing: Public Road Access:	555986.976 4333800.330 McWhorter Road / SR19
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Operator Well No. Schoon 1205 N-1H to S-10H 4703306003

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

elivery meth			oplication Filed: 01/1		_
	nod pursuant to West Vir	ginia Code § 2	22-6A-16(c)		
CERTIF	PIED MAIL		HAND		
	N RECEIPT REQUESTE	D	DELIVERY		
ursuant to Westurn receipt ne planned o equired to be rilling of a hamages to the d) The notice f notice. Notice is here at the address vame:	V. Va. Code § 22-6A-16(c) requested or hand delivery peration. The notice requested by subsection (b) norizontal well; and (3) A e surface affected by oil and are required by this section see the provided to the SURF is listed in the records of the rege & Rosanne Schoen), no later than , give the surfa ired by this su), section ten o proposed surfa d gas operation shall be given to	the date for filing the ce owner whose land absection shall include this article to a surface use and compenses to the extent the date of the surface owner at R(s)	will be used for the compact of the compact of the compact of the compact of the compact of the address list	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the transmitted to compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
peration on tate:	est Virginia Code § 22-6A the surface owner's land fo West Virginia	x-16(c), notice or the purpose of	of drilling a horizonta	well on the tra	well operator has developed a planned act of land as follows:
countrie	Harrison		— UTM NAD 8	3 Easting: Northing:	555986,976 4333800.330
	Harrison Grant		— UTM NAD 8 — Public Road	Northing:	555986.976
District:	Harrison Grant Mount Clare 7.5'		Public Road	Northing:	555986.976 4333800.330
County: District: Quadrangle: Watershed:	Grant		Public Road	Northing: Access:	555986.976 4333800.330 McWhorter Road / SR 19
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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 son Oil

Wy Dapariment or Environmental Protection WW-6A5 (1/12)

STATE OF WEST VIRGINIA 4703306003 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Tin Date of No	tice: 12/29/2020 Date Pe	ovided no later than the filing datermit Application Filed: 01/11/20	te of permit : 21	application.
Delivery n	ethod pursuant to West Virginia	Code § 22-6A-16(c)		
■ CER	TIFIED MAIL	☐ HAND		
	URN RECEIPT REQUESTED	DELIVERY		
return rece the planne required to drilling of damages to (d) The no of notice.	ipt requested or hand delivery, give d operation. The notice required b be provided by subsection (b), secti a horizontal well; and (3) A propo-	the surface owner whose land we by this subsection shall include: ion ten of this article to a surface sed surface use and compensation operations to the extent the dama e given to the surface owner at the OWNER(s) ff at the time of notice):	ill be used fo (1) A copy owner whos on agreemen ages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. Sted in the records of the sheriff at the time
Name: Address: L	George & Rosanne Schoen PO Box 158 ost Creek, WV 26385	Name:	undersigned v	well operator has developed a planned
Name:Address:	George & Rosanne Schoen PO Box 158 ost Creek, WV 26385	Address:	cll on the tra	well operator has developed a planned act of land as follows:
Name:Address:	George & Rosanna Schoen PO Box 158 ost Creek, WV 26385 Gereby given: o West Virginia Code § 22-6A-16(c) on the surface owner's land for the p West Virginia	Address:	ell on the tra Easting:	act of land as follows: 555986.976
Name: Address: I Notice is I Pursuant to operation State: County:	George & Rosanne Schoen PO Box 158 ost Creek, WV 26385 Gereby given: O West Virginia Code § 22-6A-16(c) on the surface owner's land for the p West Virginia Hamison	Address: Address: notice is hereby given that the topurpose of drilling a horizontal w UTM NAD 83	rell on the tra Easting: Northing:	act of land as follows: 555986.976 4333800.330
Name:Address:	George & Rosanne Schoen PO Box 158 ost Creek, WV 26385 Gereby given: O West Virginia Code § 22-6A-16(c) on the surface owner's land for the p West Virginia Harrison Grant	Address: Address: notice is hereby given that the topurpose of drilling a horizontal work and WAD 83 Public Road Acc	ell on the tra Easting: Northing: cess:	act of land as follows: 555986.976 4333800.330 McWhorter Road / SR 19
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Name:	George & Rosanne Schoen PO Box 158 Ost Creek, WV 26385 Gereby given: O West Virginia Code § 22-6A-16(c) On the surface owner's land for the public West Virginia Harrison Grant E: Mount Clare 7.5' : Middle West Fork Creek See Shall Include: O West Virginia Code § 22-6A-16(c) Gided by W. Va. Code § 22-6A-10(c) Well; and (3) A proposed surface us Fected by oil and gas operations to an related to horizontal drilling may ears, located at 601 57th Street, SE,	Address: Addres	cell on the tra Easting: Northing: cess: farm name: copy of this and will be a containing ar pensable und y, at the WV	act of land as follows: 555986.976 433800.330 McWhorter Road / SR 19 Schoen code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Name:Address:	George & Rosanne Schoen PO Box 158 Ost Creek, WV 26385 Gereby given: O West Virginia Code § 22-6A-16(c) On the surface owner's land for the public West Virginia Harrison Grant e: Mount Clare 7.5' Middle West Fork Creek See Shall Include: O West Virginia Code § 22-6A-16(c) Gided by W. Va. Code § 22-6A-10(c) Well; and (3) A proposed surface use and complete the complete to horizontal drilling may be seen and control of the complete to horizontal drilling may be seen and control of the control of	Address: Addres	cell on the tra Easting: Northing: cess: farm name: copy of this and will be u containing ar pensable und y, at the WV 04-926-0450)	act of land as follows: 555986.976 433800.330 McWhorter Road / SR 19 Schoen code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Name:Address:	George & Rosanne Schoen PO Box 158 Ost Creek, WV 26385 Gereby given: O West Virginia Code § 22-6A-16(c) On the surface owner's land for the particle with the particle of the	Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address: Address:	cell on the tra Easting: Northing: Cess: Farm name: Copy of this and will be a containing ar pensable und y, at the WV 14-926-0450)	act of land as follows: 555986.976 433800.330 McWhorter Road / SR 19 Schoen code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Name:Address:	George & Rosanne Schoen PO Box 158 Ost Creek, WV 26385 Gereby given: O West Virginia Code § 22-6A-16(c) On the surface owner's land for the particle with the particle of the	Address: Addres	cell on the tra Easting: Northing: cess: farm name: copy of this and will be u containing ar pensable und y, at the WV 04-926-0450)	act of land as follows: 555986.976 433800.330 McWhorter Road / SR 19 Schoen code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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

JAN 2 5 2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

January 21, 2021

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

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

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

Subject: DOH Permit for the Schoen 1205 Pad, Harrison County Schoen S-6H 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. This letter is valid for permitting purposes for one year from this letter's date.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer

Jary K. Clayton

Central Office O&G Coordinator

RECEIVED
Office of Oil and Gas

JAN 25 2021

Cc: Diane White

HG Energy LLC CH, OM, D-4

File

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
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
D. LEI II	D. d. i	C0412 F4 4
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
BIO CLEAN 2000	IVIIXture	10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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Office of Oil and Gas

JAN 25 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
Chemical Name	CAS#	Widitiple CA3 # 3
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
PIO HID II	IVIIXture	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	
· NOCEE · NO		
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED
Office of Oil and Gas

JAN 25 2021

WV Department of Environmental Protection

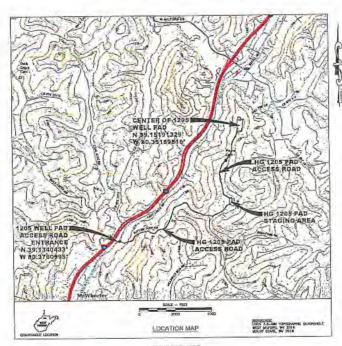
CONSTRUCTION IMPROVEMENT PLANS WITH **EROSION AND SEDIMENT CONTROLS** HG 1205 WELL PAD

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

CONSTRUCTION SEQUENCE

- 1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.
- 2. Site access This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles.
- 3. Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.
- 4. Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- 5. Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- 6 Construction of Buildings, Utilities, and Paving During construction, Install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may
- 7. Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- 8. Final Stabilization, Topspiling, Trees and Shrubs After construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.

GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA



PREPARED FOR HG ENERGY II APPALACHIA, LLC

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

PREPARED BY PENN ENVIRONMENTAL & REMEDIATION, INC.

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

C.31

Final Development - Gravel	Cirlian				
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255 Well Pad		11.660 10	2710	850	12
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1205 Well Pad Blognig Area		340	330 /	10	-
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Est. Swit Factor	(20%)			1,539 /	
Est. Toppul Studiple Volume	(Loose Ch)			12,631	
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and may not be repeate to	this of actual quarter	115.			
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WELL !	LAT.	LONG.
N-3H	N 39.1524686	W 80,351B727
N-2H	N 39,1524277	W 80.3518782
N-4H	N 39,1523867	A 80'2218839
N-1H	N 39.1523457	H 80.3518893
N-5H	N 39,1523047	W BO.3518949
5-6H	N 39.1518447	W 80.3520486
S-7H	N 39.1518039	W B0.3520554
5-1011	N 39.1515630	W E0.3520622
S-9H	H 39.1515222	W E0.3920690
S-8H	9 30.1514813	W 80.3520758
	WELL ELEVATION	

	LATITUDE	LONGITUDE
1205 WELL PAD ACCESS ROAD ENTRANCE	N 39.1340433	W BD.3760995

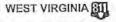
RECORD DWNER	RECORD LOT #	REGORD AREA OF LDT	AREA.
INTERSTATE 79 RIGHT OF WAY	N/A	N/A	0.704
FRANKLIN L. SUTTON	17-12-0485-0014-0002	39,4314	0.498
CHARLES R. SUTTON	17-12-0486-0015-0000	11,3465	0.532
FRANKLIN L. SUTTON	17-12-0486-0016-0000	22,3733	1.391
CHARLES R. SUTTON	17-12-0466-0017-0000	37.5166	3,008
FRANKLIN L. SUTTON	17-12-0446-0047-0000	25,9585	1.399
CHARLES R. SUTTON	17-12-0446-0048-0000	86.5040	3.005
CHARLES R. SUTTON	17-12-0466-0019-0000	52.7575	0.604
JOSEPH C. DUEEN	17-12-0447-0043-0001	16.9336	2.145
JOSEPH C. DUEEN	17-12-0447-0032-0000	35.5669	2,162
THOMAS K. YOUNG	17-12-0446-0029-0000	73,2754	6.570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2564	7.792
TOTAL LIMIT	OF DISTURBANCE		29,815 A

ACCOUNT TO HE PERSON IN		E THEOLY THE SOURCE SETTING CONTENT OF PLAN EMPRESSIONS. THE COPYCH AND MUCH ANALYSE TO THESE PARTIES, NOTICES SELL TO SECON OWNER, MAY SELL TO SECON OWNER, MAY SELL TO SECON OWNER, MAY SELL TO SECON OWNER, MAY SELL TO SECON OWNER, MAY SELL TO SECON OWNER, MAY SELL TO SECON OWNER, MAY SELL TO SECON OWNER, MAY SELL THE SELL T
REVISIO	N DATE	DESCRIPTION
1	03/17/2020	QUANTITY UPDATE AND CHANNEL MODIFICATIONS
2	108/27/2020	CLENT REVISIONS
3	09/18/2020	REVISED PER WIDEP COWNERIES
- 4	10/28/2020	REVISED PER CLIENT COMMENTS
- 5	11/11/2020	CLIENT WELL REVISIONS
- 6	11/20/2020	REVISED PER MYDEP CONNENTS
-		antimir.



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

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA





Dial 811 or 800,245,4848





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

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

CONSTRUCTION SEQUENCE

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GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA



PREPARED FOR

HG ENERGY II APPALACHIA, LLC

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

PREPARED BY

PENN ENVIRONMENTAL & REMEDIATION, INC.

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



WELL #	LAT.	LONG.
N-3H	N 39.1524686	W 80.3518727
N-ZH	N 39.1524277	W 80.3518782
N-4H	N 39,1523867	W 80.3518838
N-1H	N 39.1523457	W 80,3518893
N-5H	N 39.1523047	W 80.3518949
S-6H	N 39.1518447	W 80.3520486
5-7H	N 39.1515039	W 80.3520554
S-10H	N 39.1515630	W 80.3520622
S-9H	N 39.1515222	W 80.3520690
S-8H	N 39.1514813	W 80.3520758
	WELL ELEVATION	

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

RECORD. OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD	
INTERSTALE 79 RIGHT OF WAY	N/A	N/A	0.704	
FRANKLIN L. SUTTON	17-12-0455-0014-0002	39.4314	D.498	
CHARLES R. SUTTON	17-12-0466-0015-0000	11,3466	0.532	
FRANKLIN L. SUTTON	17-12-0466-0016-0000	22,3733	1.391	
CHARLES R. SUTTON	17-12-0466-0017-0000	37.5166	3.008	
FRANKLIN L. SUTTON	17-12-0445-0047-000D	25.9586	1.399	
CHARLES R. SUTTON	17-12-0446-0048-0008	86.5040	3.008	
CHARLES R. SUTTON	17-12-0466-0019-0000	62.7575	0.604	
JOSEPH C. DUEEN	17-12-0447-0043-0001	16.9336	2.145	
JOSEPH C. QUEEN	17-12-0447-0032-0000	35,5669	2.162	
THOMAS K, YOUNG	17-12-0446-0029-0000	73.275	6.570	
GEORGE M. & RUSANNE SCHOEN	17-12-0447-0002-0000	71.256	7,792	
TOTAL UNIT OF DISTURBANCE				

RECEIVED 10 JAN 2



CUENT WELL REVISIONS



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

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

PA007915-001

Dial 811 or 800,245,4848

Penn E&R

WEST VIRGINIA

CALL BEFORE YOU DIG!

