

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

Monday, June 28, 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-10H

47-033-06010-00-00

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.

Operator's Well Number: SCHOEN 1205 5-10H

Farm Name: GEORGE & ROSEANNE SCH

U.S. WELL NUMBER: 47-033-06010-00-00

Horizontal 6A New Drill Date Issued: 6/28/2021

API Number:	
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PERMIT CONDITIONS

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

CONDITIONS

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

API Number:	

PERMIT CONDITIONS

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

API NO. 47-033 - 060 10

OPERATOR WELL NO. Schoen 1205 S-10H
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: F	IG Energy II Ap	palachia,	494519932	Harrison	✓ Grant ✓	Mount Clare 7.5'
- v se se se se s	200		Operator ID	County	District	Quadrangle
2) Operator's Well N	lumber: Schoer	1205 S-10	H / Well Pa	ad Name: Sch	hoen 1205	
3) Farm Name/Surfa	ce Owner: Geo	rge Schoer	Public Ro	ad Access:	McWhorter F	Road / SR25
4) Elevation, current	ground: 14	0' E	levation, proposed	l post-constru	ction: 1407	12
5) Well Type (a) C	-	Oil	Und	derground Sto	rage	
(b)If	Gas Shallow Horizon	x al x	Deep	-		- SDW ,
6) Existing Pad: Yes	or No No					3/13/2021
7) Proposed Target F Marcellus at 7214'			Age to a second of the second of the second of the		l Pressure(s):	
8) Proposed Total V	ertical Depth: 7	240'				
9) Formation at Tota	l Vertical Depth	Marcellus	S			
10) Proposed Total N	Measured Depth:	25,879'				
11) Proposed Horizo	ntal Leg Length	17,101'				
12) Approximate Fre	esh Water Strata	Depths:	135', 480', 640	', 728'		
13) Method to Deter	mine Fresh Wate	er Depths:	Nearest offset w	ell data		
14) Approximate Sa	ltwater Depths:	1730, 1780	0, 2010			
15) Approximate Co	al Seam Depths:	501, 650', 730	0', 736' (Surface casin	g is being extende	ed to cover the c	oal in the DTI Storage Field)
16) Approximate De						RECEIVED Office of Oil and Gas
17) Does Proposed v directly overlying or					No X	MAY 2 6 2021
(a) If Yes, provide	Mine Info: Na	me:				WV Department of Environmental Protection
		oth:				
	Sea	ım:				
	Ow	ner:				

API NO. 47-033 - 06010 OPERATOR WELL NO. Schoen 1205 S-10H

Well Pad Name: Schoen 1205

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120' /	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1200'	1200'	40% excess,CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2100'	2100'	40% excess,CTS
Intermediate 2	9 5/8"	NEW	J-55	40	2950'	2950'	40% excess tail, CTS
Production	5 1/2"	NEW	P-110	23	25879'	25879'	20% excess tail, CTS
Tubing							
Liners							

SDW 5/13/2021

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tail 0% Excess Lea
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1 94.0
Tubing							
Liners							
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Office of Oil and Gas

MAY 26 2021

PACKERS

WV Department of

Kind:	Environmental Protection
Sizes:	
Depths Set:	

WW-6B (10/14) API NO. 47- 033 - 06010

OPERATOR WELL NO. Schoen 1205 S-10H

Well Pad Name: Schoen 1205

19) Describe proposed well work, including the drilling and plugging back of any pilot h
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Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7240 feet. Drill horizontal leg to estimated 17,101' lateral length, 25,879' 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:

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

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Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig. Fresh Water - 15.6 ppg PNE-1 + 3% bwoc CaCl, 40% Excess Yield = 1.20

essLead Yield=1.19 MANY1.942 ST6 2021

WV Department of

Environmental Protection

25) Proposed borehole conditioning procedures:

*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

Naterial Name	Material Type	Material Description	CAS#	%	CAS number
		Premium NE-1 is a	Ingredient name	90 - 100	65997-15-1
		portland cement with early compressive	Portland cement Calcium oxide	90 - 100	1305-78-8
		strength properties.	Magnesium oxide	1 - 5	1309-48-4
emium NE-1	Portland Cement	ev ev Bert krakat naar	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
		200000000000000000000000000000000000000			
		Commonly called gel, it is	Ingredient name	%	CAS number
		a clay material used as a cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7
		water.			
ntonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
tion chile the	randomiles:	of strength development			
cium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient		
a Flator	The end of the	a lost circulation material.			
lo Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in cementing operations, it	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air	D-24-Welling	Prog. 200	
		entrapment and			
		preventing foaming			
		tendencies of latex			
-13L	Foam Preventer	systems.			
45%	I own the retited		The state of the s	200	loss .
		Used to retard cement	Ingredient name	%	CAS number
anulated Sugar	Retarder	returns at surface.	Sucrose	90 - 100	57-50-1
	77.79	A proprietary product			
		that provides expansive			
		properties and improves		122	Tavarra .
		bonding at low to	Ingredient name	%	CAS number
		moderate temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
1		temperatures.			
		Multi-purpose polymer			
		additive used to control	Ingredient name	%	CAS number
		free fluid, fluid loss,	No hazardous ingredient		
A-170	Gas Migration	rheology, and gas migration.	1		
11.518	Gus Angresion	THE STORY			
		A synthetic pozzolan,		20 Million	
		(primarily Silicon Dioxide).		RECEIVED	
		When blended with		ice of Oil and Gas	
		cement, Pozzolan can be used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2)	IAY 26 7021	14808-60-7
		slurries used as either a	Calcium oxide	1AY 26 71821	1305-78-8
		filler slurry or a sulfate			
		resistant completion	. V	VV Department of	
(Elica-Li	Pers	cement.	Envi	ronmental Protection	
(Fly Ash)	Base		Jan 11 7 1		
		A low temperature			
		retarder used in a wide	Ingredient name	%	CAS number
		manifely will alternate	Organic acid salt	40 - 50	Trade secret.
		range of slurry	- 1 TO 1 STORY TO STO	17.00	
		formulations to extend			
	Datable				
	Retarder	formulations to extend			
i	Retarder	formulations to extend	Ingredient name	%	CAS number
à	Retarder	formulations to extend	2-Butoxyethanol	20 - 30	111-76-2
ŝ	Retarder	formulations to extend the slurry thickening time.	2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.
i	Retarder	formulations to extend	2-Butoxyethanol	20 - 30	111-76-2



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1205 S-10H Marcellus Shale Horizontal Harrison County, WV

ă 1205 S-10H SHL 8 14218461.69N 1824098.78E 1205 S-10H LP 14219268.84N 1827192.48E Ground Elevation 1407.3 1205 S-10H BHL 14203226.01N 1833095.83E 159.798° Azm CEMENT CENTRALIZERS CONDITIONING COMMENTS WELLBORE DIAGRAM HOLE GEOLOGY TOP BASE MUD CASING 30" 157 5# N/A, Casing to be drilled Ensure the hole is clean at Conductor casing = 0.5" wall N/A AIR 30" in w/ Dual Rotary Rig TD. thickness LS 0 120 Conductor 135, 480 Once casing is at setting Fresh Water 0 640,728 15.6 ppg PNE-1 + 3% depth, circulate a minimum Surface casing = 0.438" wall bwoc CaCl Centralized every 3 20" AIR of one hole volume with thickness 24" 736 Coal 730 40% Excess ioints to surface 94# J-55 Fresh Water prior to Burst=2110 psi Yield=1.20 / CTS 1200 pumping cement. Surface / FW 0 Lead: 15.4 ppg PNE-1 + Once casing is at setting Bow Spring on every depth, Circulate and 2.5% bwoc CaCl Little/Bia Lime 1467 / 1510 1482 / 1556 AIR / KCL joint Intermediate casing = 0.480" 40% Excess / Tail: 15.9 condition at TD. Circulate a 13-3/8" 68# will also be running 17.5" wall thickness Salt J-55 BTC 1565 / 1900 1690 / 1970 ppg PNE-1 + 2.5% bwoc minimum of one hole Injun / Gantz (Storage) ACP for isolating Burst=3450 psi Polymer CaCl volume prior to pumping storage zone* 0 2100 Intermediate 1 zero% Excess. CTS cement. 1993 / 2112 2093 / 2147 Fifty / Thirty Foot Lead: 15.4 ppg PNE-1 + Once casing is at setting 2250 / 2310 2.5% bwoc CaCl Bow Spring on first 2 depth, Circulate and Gordon Stray / Gordon 2195 / 2250 AIR / KCL Intermediate casing = 0.395" 9-5/8" 40# 40% Excess / Tail: 15.9 joints then every third condition mud at TD. wall thickness 12.25" 5th Sand 2440 2468 Salt ppg PNE-1 + 2.5% bwoc Circulate a minimum of one J-55 BTC joint to 100' form Burst=3950 psi Polymer Warren 2835 2860 CaC surface hole volume prior to zero% Excess, CTS pumping cement. 0 2950 Intermediate 2 3028 3162 Speechley Run 1 spiral centralizer Bradford 3342 3367 every 5 joints from the 9.0ppg 8.5" Vertical Lead: 14.5 ppg SOBM top of the curve to 4420 4455 Benson POZ:PNE-1 + 0.3% surface. bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk Once on bottom/TD with Rhinestreet 5872 6549 FP13L + 0.3% bwoc casing, circulate at max 6740 6549 MPA170 allowable pump rate for at Production casing = 0.415" Cashaqua 5-1/2" Tail: 14.8 ppg PNE-1+ least 2x bottoms up, or until wall thickness 6740 6870 Middlesex 11.5ppg-0,35% bwoc R3 + 0.75 returns and pump Burst=16240 psi 23#

12.5ppg

SOBM

11.5ppg-

12.5ppg

SOBM

gal/sk FP13L + 50%

bwoc ASCA1 + 0.5%

bwoc MPA170

20% Excess

Lead Yield=1.19

Tail Yield=1.94

CTS

Χ

X

7003

7048

7149

7214

7315

7240

X

LP @ 7240' TVD / 8778' MD

8.5" Curve

8.5" Lateral

P-110 HP

CDC HTQ

West River

Burkett

Tully Limestone

Hamilton

Marcellus

TMD / TVD

(Production)

Onondaga

8.5" Hole - Cemented Long String 5-1/2" 23# P-110 HP CDC HTQ

6870

7003

7048

7149

7214

25879

7315

+/-17101' ft Lateral

Run 1 spiral centralizer

every 3 joints from the

1st 5.5" long joint to the

top of the curve.

pressures indicate the hole

is clean. Circulate a

minimum of one hole

volume prior to pumping

cement.

TD @ +/-7240' TVD +/-25879' MD

Note: Actual centralizer

schedules may be changed

due to hole conditions

X=centralizers

API Number 47 - 033 - 06010 Operator's Well No. Schoen 1205 S-10H

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'
Oo you anticipate using more than 5,000 bbls of water to will a pit be used? Yes No V	complete the proposed well work? Yes V 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: $\leq \mathcal{D} \mathcal{W}$
Land Application Underground Injection (UIC I Reuse (at API Number TBD - A Off Site Disposal (Supply form Other (Explain	t next anticipated well
Will closed loop system be used? If so, describe: Yes, cutting	igs and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.
	rizontal)? Air, freshwater, oil based, etc. Verlient - AIr, AIR/KCL, AIR/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, e	
Additives to be used in drilling medium? Water, Soap, KC	I, Barite, Base Oil, Wetting Agents
Orill cuttings disposal method? Leave in pit, landfill, rem	noved offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium w	vill be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See At	atached
West Virginia solid waste facility. The notice shall be pro where it was properly disposed. I certify that I understand and agree to the terms	and Gas of any load of drill cuttings or associated waste rejected at any wided within 24 hours of rejection and the permittee shall also disclose and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the
provisions of the permit are enforceable by law. Violatically or regulation can lead to enforcement action. I certify under penalty of law that I have persuapplication form and all attachments thereto and that, obtaining the information, I believe that the information penalties for submitting false information, including the p	ons of any term or condition of the general permit and/or other applicable on ally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for n is true, accurate, and complete. I am aware that there are significant cossibility of fine or imprisonment.
Company Official Signature Diane Wh.	MAY 26 2021
Company Official (Typed Name) Diane White	
Company Official Title Agent	WV Department of Environmental Protection
	of May
My commission expires 7/21/2022	Notary Public OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC CASSILYA BOARDAYAN 5301 OH AO 26 20 22 161 My Commission Expires July 31,

Operator's Well No. Schoen 1205 S-10H

Proposed Revegetation Treatr	nent: Acres Disturbed 29.4	Prevegetation pl	
Lime	3 Tons/acre or to correct to	_{pH} _6.5	
Fertilizer type10-	20-20	_	
Fertilizer amount_	500	_lbs/acre	
Mulch_ Hay	2 _{_To}	ons/acre	
	<u>\$</u>	Seed Mixtures	
Ter	nporary	Perma	nent
Seed Type Tall Fescue	lbs/acre 40	Seed Type Tall Fescue	lbs/acre 40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit	and proposed area for land ap it will be land applied, include on area.	g and completion process pplication (unless engineered plans include dimensions (L x W x D) of the pit, and	ling this info have been I dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv	and proposed area for land ap it will be land applied, include on area.	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	ding this info have been I dimensions (L x W), and
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 applit will be land applied, includen area. yed 7.5' topographic sheet.	oplication (unless engineered plans include dimensions (L x W x D) of the pit, and	I dimensions (L x W), and
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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 involve Plan Approved by: Comments: Pre-seed/	and proposed area for land applit will be land applied, included an area. yed 7.5' topographic sheet. OP Warranda mulch as soon as	pplication (unless engineered plans include dimensions (L x W x D) of the pit, and	regulation.
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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 involve Plan Approved by: Comments: Pre-seed/	and proposed area for land applit will be land applied, included an area. Yed 7.5' topographic sheet. OP Warrand mulch as soon as eeded per WV DE	pplication (unless engineered plans include dimensions (L x W x D) of the pit, and	regulation. MAY WV E Environn

PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK -GANTZ SAND

WELL NAME: Schoen 1205 S-10H

Well # 1205 S-10H

DISTRICT/COUNTY/STATE: Grant / Harrison / WV

Submitted

JOSH HINTON HG ENERGY II APPALACHIA, LLC DATE 5-10-2021

DATE 5/12/21

Approved

Dominion Energy Transmission

66-75

Approved

Dominion Energy Transmission

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WV Department of Environmental Protection

Comments:

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

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1875 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

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

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

Disposal Locations:

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

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

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

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 901071 233 Max Lane Yukon, PA 25968 724-722-3500

Max Environnemental Technologies, Inc. Facility Fermit # PADO5087072 / 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 1.488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-108-87 / WV 0109029 Rd 2 Box 410 Colliers, WV 26025 304-748-0014 RECEIVED
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MAY 26 2021

.WV Department of Environmental Protection

07/02/2021

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

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

Energy Solutions Services, Inc. Permit # R-79006-L24 1560 Bear Creek Road Oak Ridge, TN 97890

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

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 8790 State Route 7 New Waterford, OH 44445 880-892-0184

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

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

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 789 St. Ciairsville, OH 48950

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

Disposal Locations:

Solidification
Waste Management, Arden Landfill Permit # 100172
200 Rangos Lane
Washington, PA 15801
724-225-1589

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

Adams #1 (Buckeye Brine, LLC) Permit # 84-031-2-7177 28986 Airport Road Coshocton, OH 48812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Ollfleid Serv 301 Commerce Drive Macrestown, NJ 08057

Force, inc. 1350 Rts. 286 Hwy. E, Suite 803 Indians, PA 15701

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

Burns Drilling & Excavating 618 Crabapple Road P.O. Bos Wind Ridge, PA 16880 RECEIVED
Office of Oil and Gas

MAY **26** 2021

WV Department of Environmental Protection

Nichlos 1-A (SWIW #18) Permit # 8862 800 Cherrington Pkwy, Suite 200 Coraopolis, PA 16108 412-829-7275

Groselle (SWIW #84) Permit # 4096 Rt. 88 Garrettsville, OH 718-276-4816

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-786-6495

07/02/2021

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

Adams #3 (Buckeye Brîne, LLC) Permit #34-031-2-7241-00-00 2680 Exposition, Suite 117 Austin, TX 78703 612-478-6545

Mozena #1 Well (SWIW # 18) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3366

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Corappolis, PA 15108 412-829-7275

SOS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Olifield Services, Inc.
2939 Hubbard Road
Youngstown, PH 44505

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

OH UIC #1. Bu keya UIC Barnesville 1 & 2 CNX Gas Com...any, LLC 1,000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-923-6668

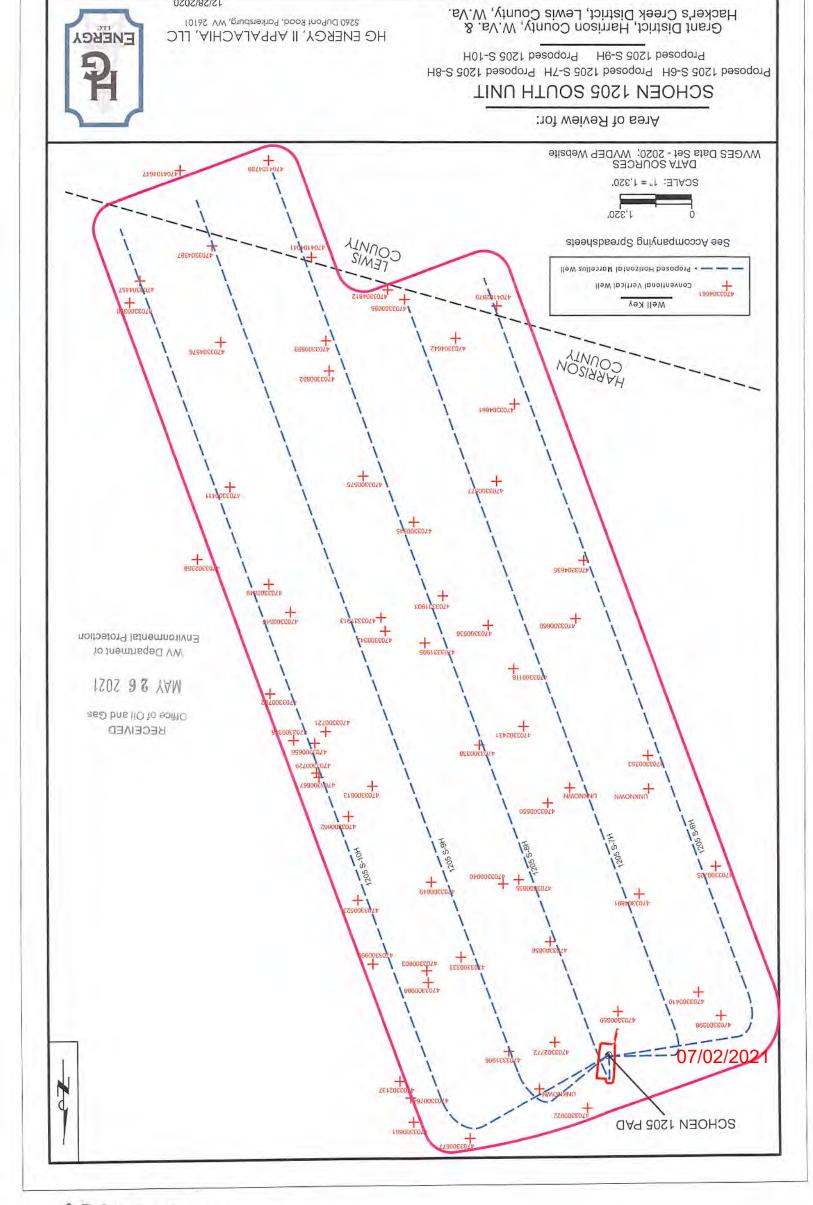
US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 804-828-6568

Chapin #7 UIC (SWIW #7) Fermit # 84-083-2-4187-00-00 Elkhead Gas& Oil Company 12168 Marne Rd. NE Newark, OH 48055 740-768-8968

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Office of Oil and Gas

MAY 26 2021

WV Department of Environmental Protection



EXISTING WEILS-TOCATED WITHIN THE AREA OF REVIEW FOR

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

СТ	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, Inc.	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

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

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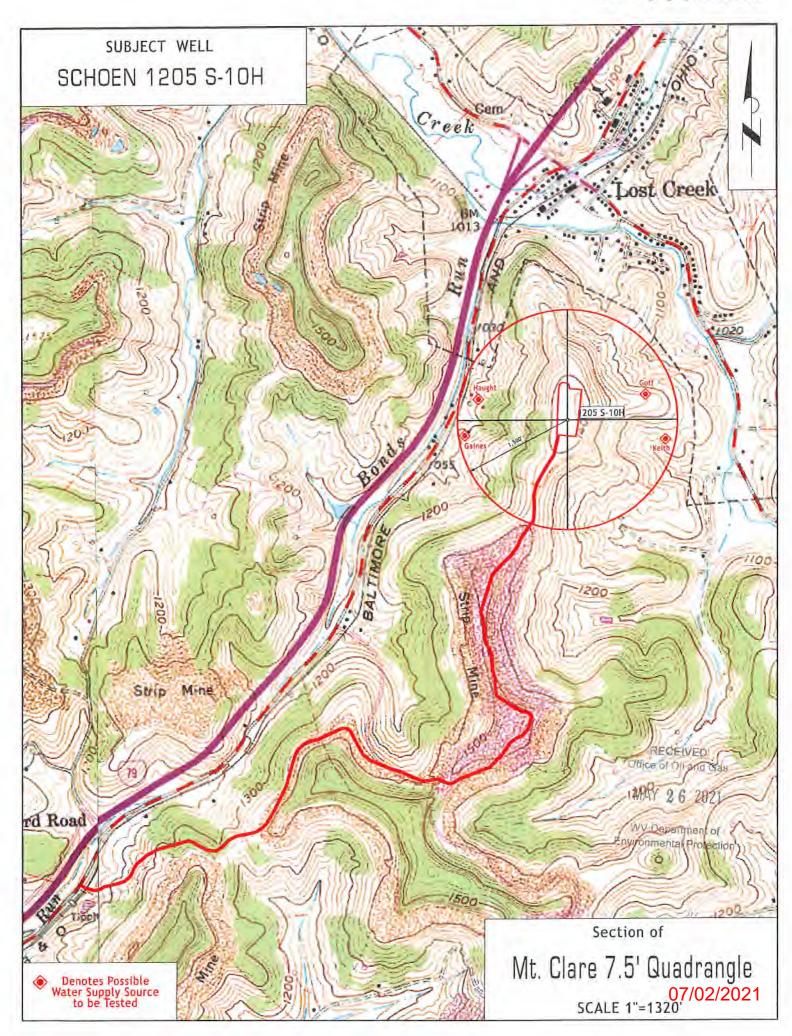
WV Department of Environmental Protection

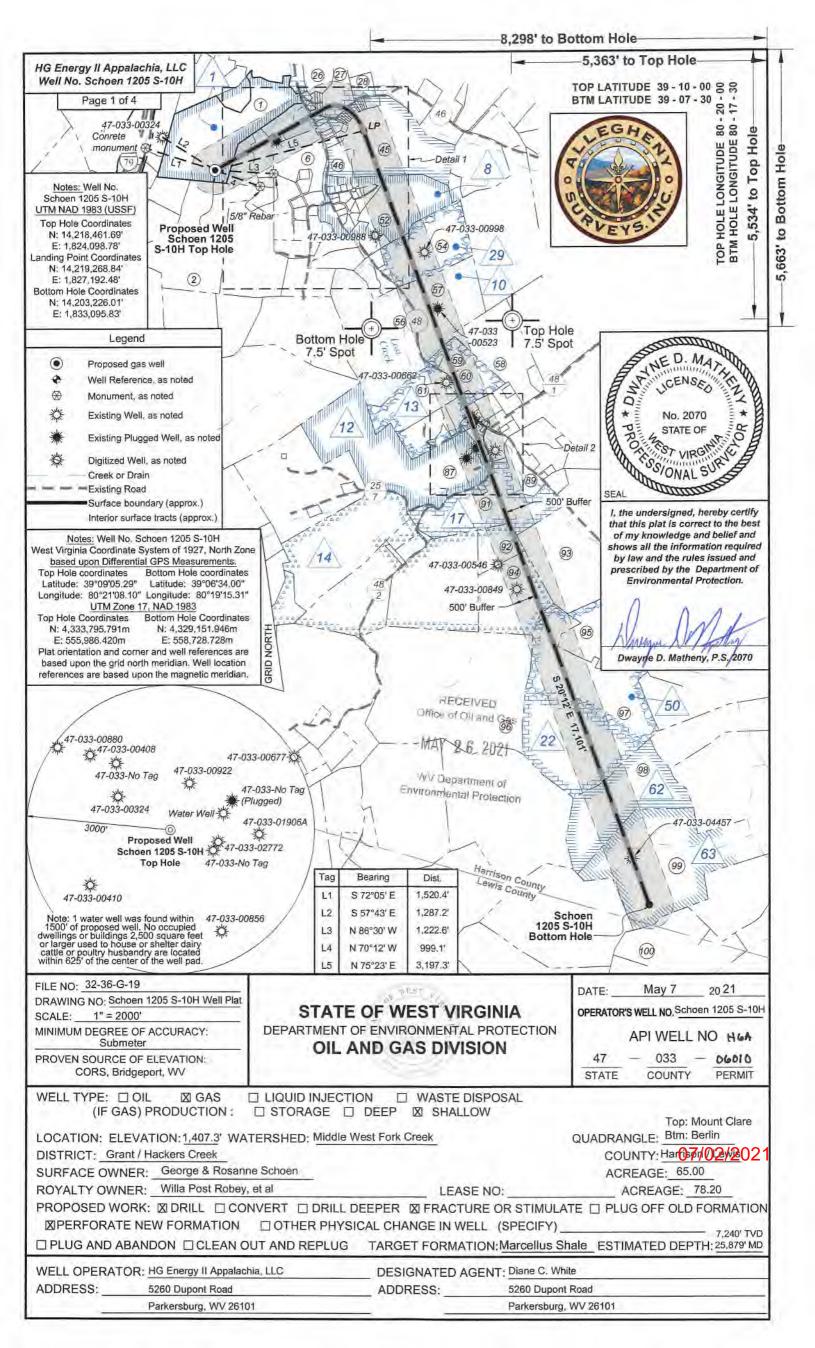
5260 Dupont Road

HG Energy II Appalachia, LLC

Parkersburg, WV 26101

50W 5/13/2021





HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H

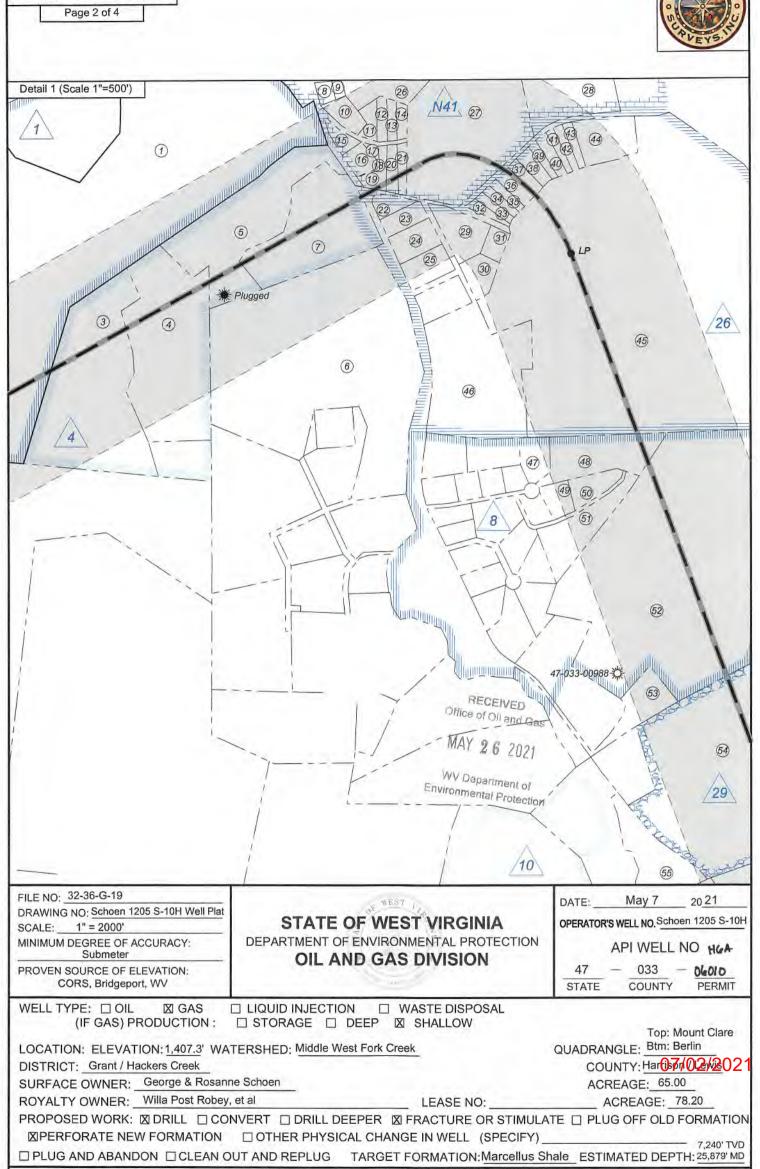
WELL OPERATOR: HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

ADDRESS:





DESIGNATED AGENT: Diane C. White

5260 Dupont Road

Parkersburg, WV 26101

ADDRESS:

HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H Page 3 of 4 Detail 2 (Scale 1"=250') (60) 61) 67 47-033 63 (72) (73) (82) 36 35 47-033 00348 47-033-00721 RECEIVED Office of Oil and Gas 89 MAY 26 2021 WV Department of Environmental Protection FILE NO: 32-36-G-19 May 7 20 21 DATE: _ DRAWING NO: Schoen 1205 S-10H Well Plat OPERATOR'S WELL NO. Schoen 1205 S-10H STATE OF WEST VIRGINIA 1" = 2000" SCALE: DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO HEA Submeter OIL AND GAS DIVISION PROVEN SOURCE OF ELEVATION: 47 033 06010 CORS, Bridgeport, WV PERMIT STATE COUNTY ☐ 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 COUNTY: Har 0.7/02/202 DISTRICT: Grant / Hackers Creek SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al ACREAGE: 78.20 LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,879' MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road 5260 Dupont Road ADDRESS: Parkersburg, WV 26101 Parkersburg, WV 26101

HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H

Page 4 of 4



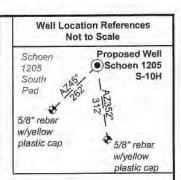
Wellhead Layout (NTS)

Schoen 1205 S-6H
(47-033-06003)

Schoen 1205 S-7H
(47-033-05995)

Schoen 1205 S-9H
(47-033-06006)

Schoen 1205 S-8H
(47-033-06002)



ID	Lease
N41	D.L. Nutter, et ux
1	A.B. Post, et al
4	Charlotte C. Gerlach
8	L.B. & S.J. Davis
10	Lewis C. & Alma Swisher
12	French S. Young, et ux
13	Lewis C. & Alma Swisher
14	M.M.F. & S.F. Randolph
17	Mary Holbert Ellyson, et vir, et al
22	W. Haymond Dawson, et ux
26	Milton S. Davis, et al
29	Alan M. & Deborah K. Randolph
35	Danny J. & Greta A. Butcher, et al
36	Jackson L. Smith
44	Lawrence E. & Delphia V. Harris, et al
50	W. Haymond Dawson, et ux
62	Kate Stout
63	C. Ross Lewis, et ux, et al

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MAY 26 2021

WV Department of Environmental Protection

1 FI	rotection		76	
		Harrison County	BI /B	
No.		Owner	Bk / Pg	Ac.
71	447 / 48	Leroy Stutler	1448/292	0.01
72	447 / 44.2	Timothy Smith	1478/1262	0.95
73	447 / 44.5	Karri Trent	1404/418	1.78
74	467 / 8	Danny Joe & Greta Ann Butcher	1321/699	0.63
75	447 / 46	Leroy Stutler	1448/292	0.25
76	447 / 46.1	Leroy Stutler	1448/292	0.25
77	467 / 58	Trustees MP Parsonage	501/142	0.06
78	467 / 57	Trustees MP Parsonage	501/142	0.20
79	467 / 56	Linda F. Marple	1325/1055	0.25
80	467/9	Danny & Greta Bucher	1321/699	0.05
81	467 / 10	Carol S. Bennett	1450/590	0.22
82	467 / 13.1	Gordon C. Dawson	1330/356	0.57
83	467 / 6	Jackson L. Smith, et ux	1514/233	1.71
84	467 / 17	Steven C. & Dorothy J. Williams	1198/632	4.58
85	467/3	Jackson L. Smith	1412/25	0.75
86	467 / 2.1	Susan K. Dustin	1318/359	0.80
87	467 / 2	Jackson L. Smith	1378/976	95.16
88	467 / 19	Steven G. & Julia A. Randolph	1321/1151	-
89	467 / 21	Steven G. & Juila A. Randolph	1321/1151	10.30
90	467 / 20.1	Charles & Mitzie Reider	1358/1074	0.57
91	467 / 20	Steven G. & Juila A. Randolph	1321/1151	54.6
92	467 / 36	Gary W. & Kathy Hanby	1107/1041	15.35
93	467 / 26	Jane L. Given	1398/247	149.7
94	467 / 36.1	Gary W. & Kathy Hanby	1153/965	45.00
95	467 / 40	Edward G. Dawson	W 137/528	39.75
96	467 / 52	David L. & Lisle C. Hinkle	1282/389	175.5
97	467 / 53	George W & Dorothy K. Dawson	1418/331	158.5
98	487 / 6	Clayton W. Rice	1563/252	70.33
99	487 / 8	Wayne R. Lewis	1616/1241	134.6
	120 1	Lewis County		
100	10C/17	Norman Jackson	584/191	34.00

Parkersburg, WV 26101

NIc	TM/Des	Harrison County	Bk/Pg	٨٥
No. 1	TM / Par 447 / 2	Owner George & Rosanne Schoen	1148 / 1059	Ac. 65.00
2	446 / 29	Thomas K. Young , et al	1121 / 25	75.00
3	447/3	George and Rosanne Schoen	1253 / 302	10.06
4	447 / 3.4	Stephen M & Kimberly Goff	1257/189	7.67
5	447 / 3.3	Charlotte C Gerlach	1070/1041	6.10
6	447 / 4.11	Joseph & Karen Bowers	1295/887	21.87
7	447 / 3.2	Michael Tillman & Mary Hencke	1257/193	5.86
8	2105 / 46	Eugene Smith, et al	F111/530	0.26
9	2105 / 46.1	Emilee Hall, et al	1437/1189	0.17
10.	2105 / 47	Cecil Smith, et al	1394/681	0.56
11	2105 / 48	Walter Knight	1284/893	0.37
12	2105 / 50	Helen I. Eakle Estate	/	0.25
13	2105 / 53	Virgil Lamb	1577/1012	0.23
14	2105 / 54	Ronald Lake	1415/288	0.23
15	2105 / 116	Kitty Lowther	1580/152	0.42
16	2105 / 117	Kitty Lowther	1580/152	0.50
17	2105 / 49	Kitty Lowther	1580/152	Lot 8
18	2105 / 117.1	Kitty Lowther	1580/152	0.02
19	2105 / 51	Helen I. Eakle Estate	/	Lot 7
20	2105 / 52	Virgil Lamb	1577/1012	0.33
21	2105 / 55	Ronald Lake	1415/288	0.23
22	2105 / 118	Trustees Church of God	1097/818	Lot 22
23	2105 / 119	Trustees Church of God	1097/818	Lot 24
24	2105 / 120	Trustees Church of God	1097/818	Lot 24
25	2105 / 121	Jane L. Given	882/569	0.881
26	427 / 33	Isacc & Betty Maxwell III	1539/141	67.32
27	427 / 34	Worthy C. Hall	1577/626	27.00
28	427 / 8.1	Allen Scott Hall	1265/589	5.40
29	2105 / 56	Thomas & Terri Hawkins	1558/1255	0.76
30	2105 / 57	Thomas & Terri Hawkins	1558/1255	0.70
31	2105 / 58	Thomas & Terri Hawkins	1558/1255	0.76
32	2105 / 59	Mary Ann Bowyer, et al	F118/63	0.23
33	2105 / 60	Mary Ann Bowyer, et al	F118/63	0.23
34	2105 / 61	Lisa Hickman	1621/760	0.21
35	2105 / 62	Lisa Hickman	1621/760	0.21
36	2105 / 63	Lisa Hickman	1621/760	0.38
37	2105 / 64	David W. & Blanche K. Stutler	1480/433	0.28
38	2105 / 65	Jean Riffle Estate, et al	F100 / 64	0.42
39	2105 / 67	Jean Riffle Estate, et al	F100 / 64	0.21
40	2105 / 68	Jean Riffle Estate, et al	F100 / 64	0.25
41	2105 / 69	Jean Riffle Estate, et al	F100 / 64	0.26
42	2105 / 70	Kevin R. Kolenda	1257/800	0.26
43	2105 / 71	Kevin R. Kolenda	1257/800	0.26
44	2105 / 73	Paul W. Winters	W 148/702	1.53
45	447/6	Thomas E. & Terri E. Hawkins	1558/1255	84.25
46	447 / 6.1	Michael & Charlotte Moses	1364/7	7.20
47	447/5	Michele L. Bennett	1336/796	0.75
48	447 / 5.11	Daniel & Paulette Shaffer	1448/933	2.66
49	447 / 5.23	Ronald & Janet Barnosky	0.57	0.57
50	447 / 5.24	Ronald & Janet Barnosky	1401/271	0.73
51	447 / 5.8	Ronald & Janet Barnosky	1401/271	2.03
52	447 / 27	Lyle Randolph, et al	1308/74	63.11
53	447 / 26	Russell A. Snyder	1425/1332	0.66
54	447 / 28	Lyle Randolph, et al	1308/74	46.50
55	447 / 23.1	Shirley Wheeler	1585/111	2.33
56	447 / 36	Debra J. Bedell	1291/931	82.38
57	447 / 36.1	Debra J. Bedell	1244/881	65.58
58	447 / 37.2	Carol S. Bennett	991/227	43.60
59	447 / 36.2	Jason & Taylor Workman	1593/15	4.55
60	447 / 36.1	Debra J. Bedell	1244/881	65.58
61	447 / 44.1	Debra J. Bedell	1291/931	30.37
62	447 / 51	Joseph F. Coffman	1360/716	1.54
63	447 / 44.4	Michael W. & Tracy L. Ash	1359/139	4.79
64	447 / 44	Roddy & Tracy L. Ash	1332/493	15.21
65	447 / 50	Judy M. Gillespie	1139/421	0.75
66	447 / 52	Trustees M P Church	501/142	4.20
67	447 / 49	Russell W. Stutler	FO 96/707	0.75
	467 / 12	Stephen B. Riel	1229/916	3.06
b8			12201010	
68 69	447 / 54	Linda F. Marple	1325/1055	0.04

FILE NO: 32-36-G-19

DRAWING NO: Schoen 1205 S-10H Well Plat SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION:

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

Parkersburg, WV 26101

CORS, Bridgeport, WV

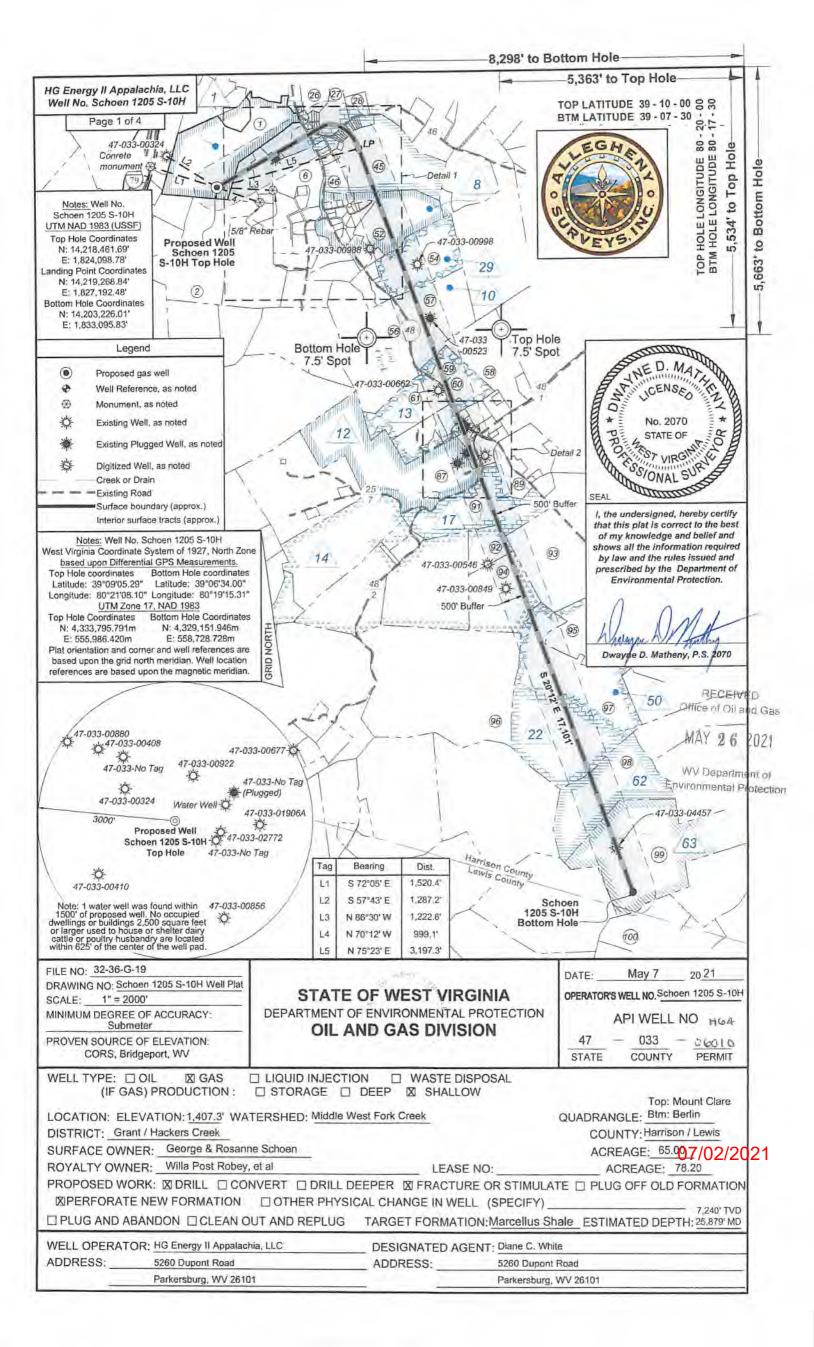
DATE: May 7 2021

OPERATOR'S WELL NO. Schoon 1205 S-10H

API WELL NO #64

47 - 033 - 0600 STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION : ☐ STORAGE ☐	ON WASTE DISPOSAL DEEP SHALLOW	Top: Mount Clare
LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle W	est Fork Creek	QUADRANGLE: Btm: Berlin
DISTRICT: Grant / Hackers Creek		COUNTY: Har@7/02/2021
SURFACE OWNER: George & Rosanne Schoen		ACREAGE: 65.00
ROYALTY OWNER: Willa Post Robey, et al	LEASE NO:	ACREAGE: _78.20
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DE ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSIC☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	CAL CHANGE IN WELL (SPECIF	Y)
WELL OPERATOR: HG Energy II Appalachia, LLC ADDRESS: 5260 Dupont Road	DESIGNATED AGENT: Diane C	. White



HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H Page 2 of 4 Detail 1 (Scale 1"=500') N41 @ 1 1 (24) 30 # Plugged 26 6 (46) 48 (50) (52) 47-033-00988-RECEIVED Office of Chi and Gas MAY 26 2021 29 WV Department of Environmental Protection 10 FILE NO: 32-36-G-19 DATE: May 7 2021 DRAWING NO: Schoen 1205 S-10H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Schoen 1205 S-10H SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: DEPARTMENT OF ENVIRONMENTAL PROTECTION API WELL NO HGA Submeter OIL AND GAS DIVISION PROVEN SOURCE OF ELEVATION: 47 033 06010 CORS, Bridgeport, WV STATE COUNTY PERMIT WELL TYPE: □ OIL X GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL (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 COUNTY: Harrison / Lewis SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.007/02/2021 ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20 PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,879' MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: Parkersburg, WV 26101 Parkersburg, WV 26101

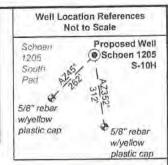
HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H Page 3 of 4 Detail 2 (Scale 1"=250') 61) 13 47-033 -00667 63 -00729 (72) 47-033 47-033 -00348 44 47-033-00721 88 Office of Oil and Gas RECEIVED MAY 26 2021 89 WV Department of Environmental Protection 12 FILE NO: 32-36-G-19 May 7 2021 DATE: DRAWING NO: Schoen 1205 S-10H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Schoen 1205 S-10H 1" = 2000' SCALE: _ MINIMUM DEGREE OF ACCURACY: DEPARTMENT OF ENVIRONMENTAL PROTECTION API WELL NO HOA Submeter OIL AND GAS DIVISION 06010 PROVEN SOURCE OF ELEVATION: 033 CORS, Bridgeport, WV STATE COUNTY PERMIT ☐ WASTE DISPOSAL WELL TYPE: OIL ☐ LIQUID INJECTION IXI GAS (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW Top: Mount Clare LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek QUADRANGLE: Btm: Berlin

DISTRICT: Grant / Hackers Creek COUNTY: Harrison / Lewis SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.007/02/2021 __ACREAGE: 78.20 ROYALTY OWNER: Willa Post Robey, et al LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☑ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,879' MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101

Page 4 of 4







No.	TM / Par	Harrison County Owner	Bk / Pg	Ac,
1	447/2	George & Rosanne Schoen	1148 / 1059	65.00
2	446 / 29	Thomas K. Young, et al	1121/25	75.00
3	447/3	George and Rosanne Schoen	1253 / 302	10.06
4	447 / 3.4	Stephen M & Kimberly Goff	1257/189	7.67
5	447 / 3.3	Charlotte C Gerlach	1070/1041	6.10
6	447 / 4.11	Joseph & Karen Bowers	1295/887	21.87
7	447 / 3.2	Michael Tillman & Mary Hencke	1257/193	5.86
8	2105 / 46	Eugene Smith, et al	F111/530	0.26
9	2105 / 46.1	Emilee Hall, et al	1437/1189	0.17
10	2105 / 47	Cecil Smith, et al	1394/681	0.56
11	2105 / 48	Walter Knight	1284/893	0.37
12	2105 / 50	Helen I. Eakle Estate	/	0,25
13	2105 / 53	Virgil Lamb	1577/1012	0.23
14	2105 / 54	Ronald Lake	1415/288	0.23
15	2105 / 116	Kitty Lowther	1580/152	0.42
16	2105 / 117	Kitty Lowther	1580/152	0.50
17	2105 / 49	Kitty Lowther	1580/152	Lot 8
18	2105 / 117.1	Kitty Lowther	1580/152	0.02
19	2105 / 51	Helen I. Eakle Estate	/	Lot 7
20	2105/52	Virgil Lamb	1577/1012	0.33
21	2105 / 55	Ronald Lake	1415/288	0.23
22	2105 / 118	Trustees Church of God	1097/818	Lot 22
23	2105 / 119	Trustees Church of God	1097/818	Lot 24
24	2105 / 120	Trustees Church of God	1097/818	Lot 24
25	2105 / 121	Jane L. Given	882/569	0.881
26	427 / 33	Isacc & Betty Maxwell III	1539/141	67.32
27	427 / 34	Worthy C. Hall	1577/626	27.00
28	427 / 8.1	Allen Scott Hall	1265/589	5.40
29	2105 / 56	Thomas & Terri Hawkins	1558/1255	0.76
30	2105 / 57	Thomas & Terri Hawkins	1558/1255	0.70
31	2105 / 58	Thomas & Terri Hawkins	1558/1255	0.76
32	2105 / 59	Mary Ann Bowyer, et al	F118/63	0.23
33	2105 / 60	Mary Ann Bowyer, et al	F118/63	0.23
34	2105 / 61	Lisa Hickman	1621/760	0.21
35	2105 / 62	Lisa Hickman	1621/760	0.21
36	2105 / 63	Lisa Hickman	1621/760	0.38
37	2105 / 64	David W. & Blanche K. Stutler	1480/433	0.28
38	2105 / 65	Jean Riffle Estate, et al	F100 / 64	0.42
39	2105 / 67	Jean Riffle Estate, et al	F100 / 64	0.21
40	2105 / 68	Jean Riffle Estate, et al	F100 / 64	0.25
41	2105 / 69	Jean Riffle Estate, et al	F100 / 64	0.26
42	2105 / 70	Kevin R. Kolenda	1257/800	0.26
43	2105/71	Kevin R. Kolenda	1257/800	0.26
44	2105 / 73	Paul W. Winters	W 148/702	1.53
45	447/6	Thomas E. & Terri E. Hawkins	1558/1255	84.25
46	447 / 6.1	Michael & Charlotte Moses	1364/7	7.20
47	447/5	Michele L. Bennett	1336/796	0.75
48	447 / 5.11	Daniel & Paulette Shaffer	1448/933	2.66
49	447 / 5.23	Ronald & Janet Barnosky	0.57	0.57
50	447 / 5,24	Ronald & Janet Barnosky	1401/271	0.73
51	447 / 5.8	Ronald & Janet Barnosky	1401/271	2.03
52	447 / 27	Lyle Randolph, et al	1308/74	63,11
53	447 / 26	Russell A. Snyder	1425/1332	0.66
54	447 / 28	Lyle Randolph, et al	1308/74	46.50
55	447 / 23.1	Shirley Wheeler	1585/111	2.33
56	447 / 36	Debra J. Bedell	1291/931	82.38
57	447 / 36.1	Debra J. Bedell	1244/881	65,58
58	447 / 37.2	Carol S. Bennett	991/227	43.60
59	447 / 36.2	Jason & Taylor Workman	1593/15	4,55
60	447 / 36.1	Debra J. Bedell	1244/881	65.58
61	447 / 44.1	Debra J. Bedell	1291/931	30.37
62	447 / 51	Joseph F. Coffman	1360/716	1.54
63	447 / 44.4	Michael W. & Tracy L. Ash	1359/139	4.79
64	447 / 44	Roddy & Tracy L. Ash	1332/493	15,21
65	447 / 50	Judy M. Gillespie	1139/421	0.75
66	447 / 52	Trustees M P Church	501/142	4.20
			EO 00/707	D 76
67	447 / 49	Russell W. Stutler	FO 96/707	0.75
67 68	467 / 12	Stephen B. Riel	1229/916	3.06
67				

ID .	Lease
N41	D.L. Nutter, et ux
7	A.B. Post, et al.
4	Charlotte C. Gerlach
8	L.B. & S.J. Davis
10	Lewis C. & Alma Swisher
12	French S. Young, et ux
13	Lewis C, & Alma Swisher
14	M.M.F. & S.F. Randolph
17	Mary Holbert Ellyson, et vir, et al
22	W. Haymond Dawson, et ux
26	Milton S. Davis, et al
29	Alan M. & Deborah K. Randolph
35	Danny J. & Greta A. Butcher, et al
36	Jackson L. Smith
44	Lawrence E. & Delphia V. Hams, et al
50	W. Haymond Dawson, et ux
62	Kate Stout
63	C. Ross Lewis, et ux, et al

RECEIVED Office of Oil and Gas

MAY 2 6 2021

WV Department of Environmental Protection

	J	Harrison County		
No.	TM / Par	Owner	Bk / Pg	Ac.
71	447 / 48	Leroy Stutler	1448/292	0.01
72	447 / 44.2	Timothy Smith	1478/1262	0.95
73	447 / 44.5	Karri Trent	1404/418	1.78
74	467 / 8	Danny Joe & Greta Ann Butcher	1321/699	0.63
75	447 / 46	Leroy Stutler	1448/292	0.25
76	447 / 46.1	Leroy Stutler	1448/292	0.25
77	467 / 58	Trustees MP Parsonage	501/142	0.06
78	467 / 57	Trustees MP Parsonage	501/142	0.20
79	467 / 56	Linda F. Marple	1325/1055	0.25
80	467/9	Danny & Greta Bucher	1321/699	0.05
81	467 / 10	Carol S. Bennett	1450/590	0.22
82	467 / 13.1	Gordon C. Dawson	1330/356	0.57
83	467 / 6	Jackson L. Smith, et ux	1514/233	1.71
84	467 / 17	Steven C. & Dorothy J. Williams	1198/632	4,58
85	467/3	Jackson L. Smith	1412/25	0.75
86	467 / 2.1	Susan K. Dustin	1318/359	0.80
87	467/2	Jackson L. Smith	1378/976	95.16
88	467 / 19	Steven G. & Juila A. Randolph	1321/1151	
89	467 / 21	Steven G. & Juila A. Randolph	1321/1151	10.30
90	467 / 20.1	Charles & Mitzie Reider	1358/1074	0.57
91	467 / 20	Steven G. & Julia A. Randolph	1321/1151	54.64
92	467 / 36	Gary W. & Kathy Hanby	1107/1041	15.35
93	467 / 26	Jane L. Given	1398/247	149.75
94	467 / 36.1	Gary W. & Kathy Hanby	1153/965	45.00
95	467 / 40	Edward G. Dawson	W 137/528	39.75
96	467 / 52	David L. & Lisle C. Hinkle	1282/389	175.50
97	467 / 53	George W & Dorothy K. Dawson	1418/331	158.55
98	487 / 6	Clayton W. Rice	1563/252	70.33
99	487 / 8	Wayne R. Lewis Lewis County	1616/1241	134,68
100	10C / 17	Norman Jackson	584/191	34.00

DATE:_

FILE NO: 32-36-G-19 DRAWING NO: Schoen 1205 S-10H Well Plat 1" = 2000" SCALE: MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

OPERATOR'S WELL NO. Schoen 1205 S-10H API WELL NO HEA 47 033 STATE COUNTY PERMIT

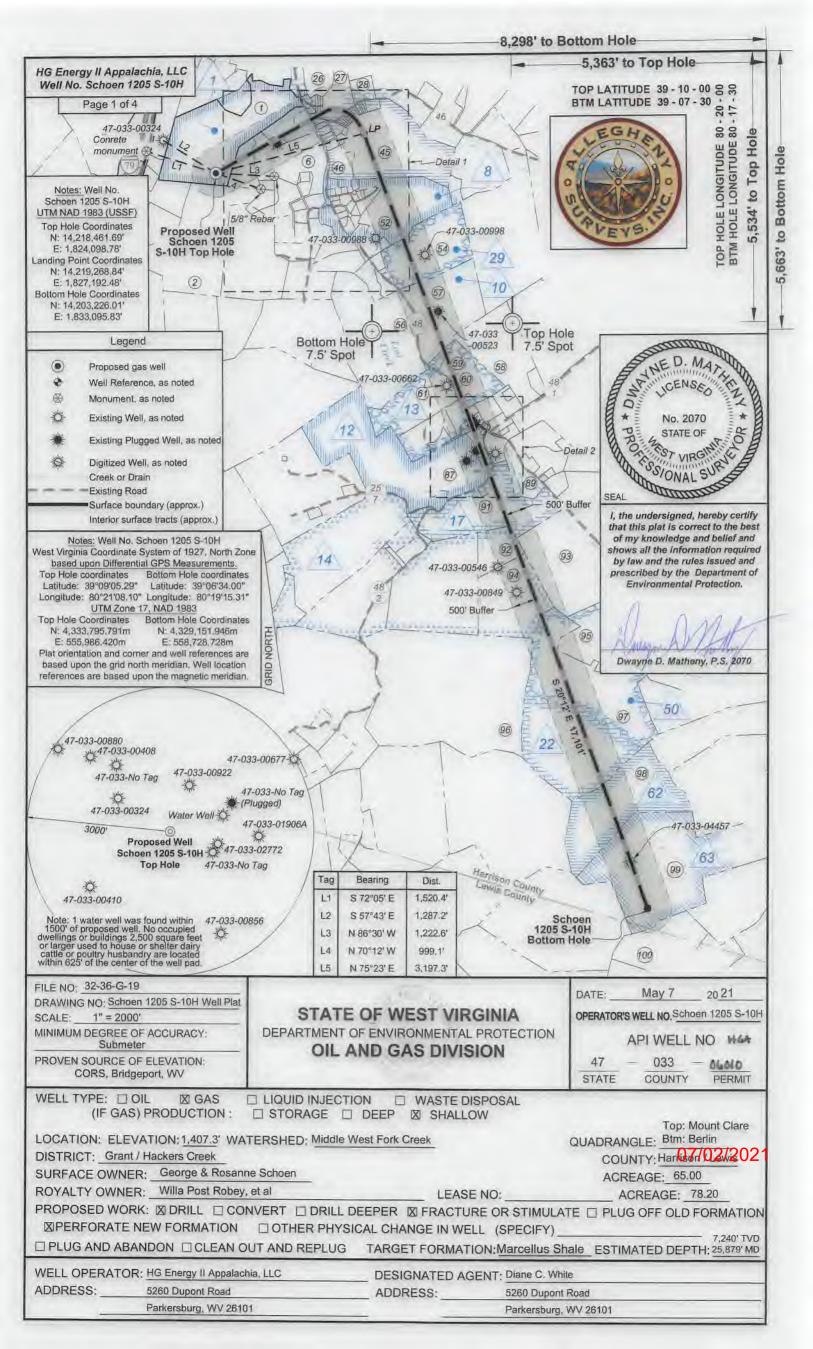
May 7

20 21

(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP	SHALLOW	Top: Mount Clare
LOCATION: ELEVATION: 1,407.3" WATERSHED: Middle West Fork C	Creek	QUADRANGLE: Btm: Berlin
DISTRICT: Grant / Hackers Creek		COUNTY: Harrison / Lewis
SURFACE OWNER:George & Rosanne Schoen		ACREAGE: 65.007/02/2021
ROYALTY OWNER: Willa Post Robey, et al	LEASE NO:	ACREAGE: 78.20
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHA	NGE IN WELL (SPECI	FY) 7,240' TVD
TIPLUG AND ARANDON TICLEAN OUT AND DEDUTE TARCE	T CODMATION Margal	

WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C. White	
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus Shale	
En	orte of maroe har viele (or con i)	7,240' TVC

ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101



HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H

Page 2 of 4

MINIMUM DEGREE OF ACCURACY:

Submeter

PROVEN SOURCE OF ELEVATION:

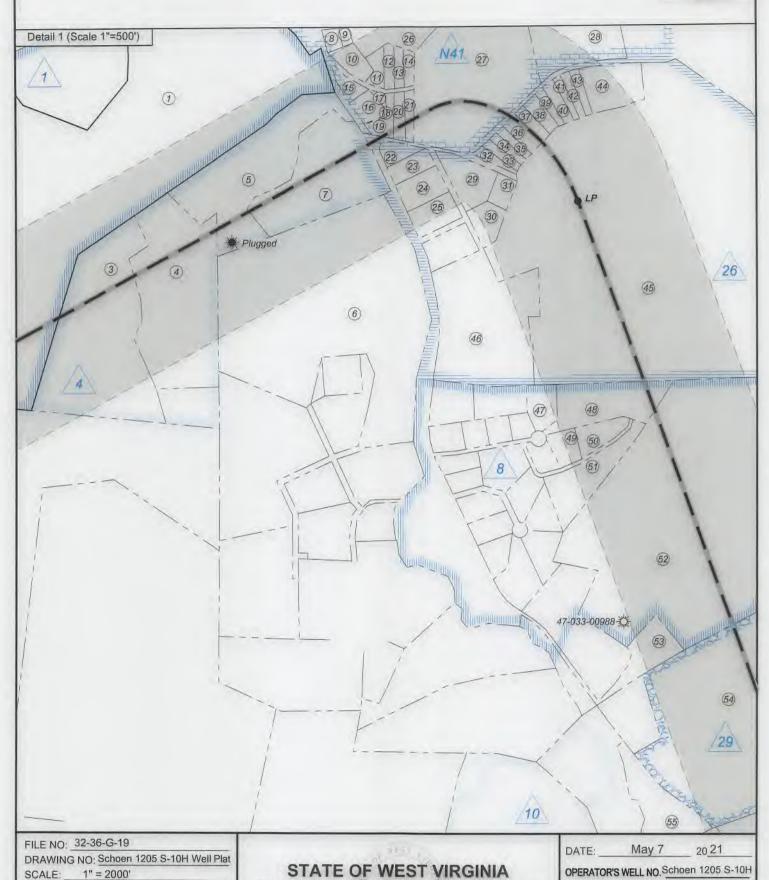


API WELL NO

033

47

Parkersburg, WV 26101



0 اطمان CORS, Bridgeport, WV STATE COUNTY WELL TYPE: OIL X GAS ☐ LIQUID INJECTION □ WASTE DISPOSAL (IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP Top: Mount Clare
QUADRANGLE: Btm: Berlin LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek COUNTY: Hand 7/02/202 DISTRICT: Grant / Hackers Creek SURFACE OWNER: George & Rosanne Schoen ACREAGE: 65.00 ROYALTY OWNER: Willa Post Robey, et al ACREAGE: 78.20 LEASE NO: PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION ☑PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,879' MD WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101

DEPARTMENT OF ENVIRONMENTAL PROTECTION

OIL AND GAS DIVISION

HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H Page 3 of 4 Detail 2 (Scale 1"=250') 60 61 47-033 -006e 63 -00729 (72) (82) 36 47-033 47-033 -00348 47-033-00721 87) 89

FILE NO: 32-36-G-19

DRAWING NO: Schoen 1205 S-10H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

/12

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

DATE: May 7 20 21

OPERATOR'S WELL NO. Schoen 1205 S-10H

API WELL NO HAA

47 - 033 - 04010

COUNTY

91

17

STATE

WELL TYPE: ☐ OIL (IF GAS) P	☐ GAS RODUCTION :	☐ LIQUID INJE ☐ STORAGE		WASTE DISPOSAL SHALLOW
LOCATION: ELEVAT DISTRICT: Grant / Ha	Control of the contro	ATERSHED: Midd	ile West Fork Cr	reek
SURFACE OWNER:	George & Rosar	nne Schoen		
ROYALTY OWNER:	Willa Post Robe	y, et al		LEASE NO:

Top: Mount Clare
QUADRANGLE: Btm: Berlin
COUNTY: Harwar 02/2021

ACREAGE: 65.00
ACREAGE: 78.20
PLUG OFF OLD FORMATION

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,879' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road

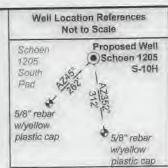
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101

HG Energy II Appalachia, LLC Well No. Schoen 1205 S-10H

Page 4 of 4







ID	Lease
Nat	D.L. Nutter, et ux
7	A.B. Post, et al
4	Charlotte C, Genach
8	LB & S.J. Davis
10	Lewis C. & Alma Swisher
12	French S. Young, et w
13	Lewis C. & Alma Swisher
14	M.M.F. & S.F. Randolph
17	Mary Holbert Ellyson, et vir, et al.
22	W. Haymond Dawson, et ux
26	Milton S. Davis, et al
29	Alan M. & Deborah K. Randolph
35	Danny J. & Greta A. Butcher, et al.
36	Jackson L Smith
2.2	Lawrence E & Delphia V. Hams, et a
50	W Haymond Dawson, et ux
62	Kate Stout
63	C. Ross Lewis, et ux, et al.

		Harrison County		
No.	TM / Par	Owner	Bk/Pg	Ac.
71	447 / 48	Leroy Stutler	1448/292	0.01
72	447 / 44.2	Timothy Smith	1478/1262	0.95
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77	467 / 58	Trustees MP Parsonage	501/142	0.06
78	467 / 57	Trustees MP Parsonage	501/142	0.20
79	467 / 56	Linda F. Marple	1325/1055	0.25
80	467/9	Danny & Greta Bucher	1321/699	0.05
81	467 / 10	Carol S. Bennett	1450/590	0.22
82	467 / 13.1	Gordon C. Dawson	1330/356	0.57
83	467 / 6	Jackson L. Smith, et ux	1514/233	1.71
84	467 / 17	Steven C. & Dorothy J. Williams	1198/632	4.58
85	467/3	Jackson L. Smith	1412/25	0.75
86	467 / 2.1	Susan K. Dustin	1318/359	0.80
87	467/2	Jackson L. Smith	1378/976	95.16
88	467 / 19	Steven G. & Juila A. Randolph	1321/1151	1
89	467 / 21	Steven G. & Juila A. Randolph	1321/1151	10.30
90	467 / 20.1	Charles & Mitzie Reider	1358/1074	0.57
91	467 / 20	Steven G. & Juila A. Randolph	1321/1151	54.64
92	467 / 36	Gary W. & Kathy Hanby	1107/1041	15.35
93	467 / 26	Jane L. Given	1398/247	149,75
94	467 / 36.1	Gary W. & Kathy Hanby	1153/965	45.00
95	467 / 40	Edward G. Dawson	W 137/528	39.75
96	467 / 52	David L. & Lisle C. Hinkle	1282/389	175.50
97	467 / 53	George W & Dorothy K. Dawson	1418/331	158,55
98	487/6	Clayton W. Rice	1563/252	70.33
99	487 / 8	Wayne R. Lewis	1616/1241	134.68
		Lewis County		_

STATE

Harrison County 1148 / 1059 65.00 1121 / 25 75.00 Bk / Pg Owner George & Rosanne Schoen Thomas K. Young , et al George and Rosanne Schoen Stephen M & Kimberly Goff No. TM / Par 1 447 / 2 446 / 29 1253 / 302 1257/189 10.06 447 / 3.4 Charlotte C Gerlach Joseph & Karen Bowers Michael Tillman & Mary Hencke Eugene Smith, et al 6.10 1070/1041 1295/887 1257/193 447 / 4.11 447 / 3.2 2105 / 46 5.86 0.26 F111/530 1437/1189 8 2105 / 46.1 9 2105 / 46.1 10 2105 / 47 11 2105 / 54 12 2105 / 53 14 2105 / 54 15 2105 / 116 16 2105 / 117 17 2105 / 117 18 2105 / 117 19 2105 / 51 20 2105 / 52 21 2105 / 118 23 2105 / 119 24 2105 / 121 25 2105 / 122 Emilee Hall, et al Cecil Smith, et al 0.17 Walter Knight 1284/893 0.37 Helen I. Eakle Estate Virgil Lamb 1577/1012 Ronald Lake Kitty Lowther Kitty Lowther 0.42 Kitty Lowther Kitty Lowther Lot 8 0.02 1580/152 1580/152 Helen I. Eakle Estate Virgil Lamb Lot 7 0.33 0.23 1577/1012 Ronald Lake Trustees Church of God Lot 22 Trustees Church of God Trustees Church of God Lot 24 Lot 24 1097/818 Jane L. Given Isacc & Betty Maxwell III Worthy C. Hall Allen Scott Hall 25 2105 / 121
26 427 / 33
27 427 / 34
28 427 / 8.1
29 2105 / 57
31 2105 / 58
32 2105 / 59
33 2105 / 60
34 2105 / 60
35 2105 / 62
36 2105 / 63
37 2105 / 64
38 2105 / 65
39 2105 / 67
40 2105 / 67
41 2105 / 69
42 2105 / 70
43 2105 / 71
44 2105 / 73 882/569 1539/141 0.881 67.32 27.00 1577/626 1265/589 1558/1255 5.40 0.76 0.70 Thomas & Terri Hawkins Thomas & Terri Hawkins 0.76 0.23 0.23 0.21 Thomas & Terri Hawkins Mary Ann Bowyer, et al 1558/1255 F118/63 F118/63 Mary Ann Bowyer, et al Lisa Hickman Lisa Hickman
Lisa Hickman
Lisa Hickman
David W. & Blanche K. Stutler
Jean Riffle Estate, et al 1621/760 1621/760 0.21 0.28 1480/433 0.21 0.25 0.26 0.26 Jean Riffle Estate, et al Jean Riffle Estate, et al F100 / 64 F100 / 64 F100 / 64 Jean Riffle Estate, et al Kevin R. Kolenda Kevin R. Kolenda Kevin R. Kolenda Paul W. Winters Thomas E. & Terri E. Hawkins Michael & Charlotte Moses 1257/800 W 148/702 0.26 84.25 7.20 0.75 2.66 0.57 0.73 1558/1255 1364/7 447 / 6 447 / 6.1 Michael & Charlotte Michael & Michael & Bennett Daniel & Paulette Shaffer Ronald & Janet Barnosky Ronald & Janet Barnosky Ronald & Janet Barnosky 1336/796 447 / 5 447 / 5.11 1448/933 447 / 5.23 447 / 5.24 0,57 1401/271 49 2.03 63.11 447 / 5.8 1401/271 447 / 5.8 447 / 27 447 / 26 447 / 28 447 / 23.1 447 / 36.1 447 / 36.1 447 / 36.2 1308/74 1425/1332 Lyle Randolph, et al Russell A. Snyder 0.66 Lyle Randolph, et al Shirley Wheeler Debra J. Bedell Debra J. Bedell Carol S. Bennett Jason & Taylor Workman 46.50 1585/111 65.58 43,60 1244/881 1593/15 4.55 447 / 36.1 Debra J. Bedell Debra J. Bedell Joseph F. Coffman Michael W. & Tracy L. Ash Roddy & Tracy L. Ash Judy M. Gillespie 61 447 / 44.1 62 447 / 51 1291/931 1360/716 30.37 447 / 44.4 447 / 44 447 / 50 447 / 52 4.79 15,21 1359/139 1332/493 0.75 1139/421 Trustees M P Church 447 / 49 Russell W. Stutler Stephen B. Riel Linda F. Marple FO 96/707 1229/916 0.75 467 / 12 447 / 54 1325/1055

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

100 10C / 17

May 7 DATE: 2021 OPERATOR'S WELL NO. Schoen 1205 S-10H API WELL NO HEA 47 033 06010

COUNTY

584/191

34.00

PERMIT

A STATE OF THE STA		di-		
WELL TYPE: OIL	X GAS	☐ LIQUID INJE	CTION [WASTE DISPOSAL
(IF GAS) PROD	UCTION:	☐ STORAGE	□ DEEP	⊠ SHALLOW

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek

DISTRICT: Grant / Hackers Creek

DRAWING NO; Schoen 1205 S-10H Well Plat

1" = 2000"

MINIMUM DEGREE OF ACCURACY

Submeter

PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

FILE NO: 32-36-G-19

SCALF:

SURFACE OWNER: George & Rosanne Schoen

Leroy Stutler

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO:

QUADRANGLE: Btm: Berlin COUNTY: Harned 102/202

Top: Mount Clare

ACREAGE: 65.00 ACREAGE: 78.20

PROPOSED WORK: MURILL L	CONVERT	DRILL DEEPER	X FRACTURE	OR STIMULATE	☐ PLUG OFF	OLD FORMATION
⊠PERFORATE NEW FORMATI	ION DOT	HER PHYSICAL CHA	ANGE IN WELL	(SPECIFY)		

	OTHER PHYSIC	CAL CHANGE IN WELL	(SPECIFY)		
					7,240' TVD
□ PLUG AND ABANDON □ CLEAN OU	JT AND REPLUG	TARGET FORMATION	:Marcellus Shale	ESTIMATED DEPTH:	25,879' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road Parkersburg, WV 26101 Parkersburg, WV 26101 WW-6A1 (5/13)

Operator's	Well No.	Schoen 1205 S-10H
Operator's	well ino.	00110011 1200 0 1011

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

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

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

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

See Attached Sheets

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

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

- 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

MAY 26 2021

WV Department of Environmental Protection

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

Well Operator:	HG Energy II A	ppalachia, LL	С	
By:	Diane White	Diane	White	
Its:	Accountant			

Page 1 of

f Oil and Gas	2021	bartment of ntal Protection
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					0 C 8 8 8 8										
1205W-S	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSE	ROYALTY	DEED BOOK	PAGE							
120300-3	HOMBER	17 17 17 17 11		A. B. POST, WIDOWER; P. S. ROBEY AND WILLA ROBEY, EACH IN HIS	, and the second		 	 							
ł					1										
				OWN RIGHT AS HUSBAND AND WIFE; ELLA LOUISE MAXWELL AND											
				ISAAC H. MAXWELL, HER HUSBAND; FRANCES AND GEORGE B.	LIODE MATURAL CAS COMPANIV	NOT LESS THAN 1/9									
				VIEWEG, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	900								
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903								
	į.			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136								
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51								
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58								
			ľ	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	. 3							
		12-0447-0001-0000			CAN CAS COMPANY I S	FIRST AMENDMENT TO MEMORANDUM OF	450								
1	LC074399	12-0447-0002-0000	Q100514000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524								
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	123							
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576								
				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								
						SECOND AMENDMENT TO MEMORANDUM OF		ļ							
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	. 58							
													THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621								
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637								
				JOHN H. GERLACH AND CHARLOTTE C. GERLACH, HIS WIFE	JACKSON L. SMITH, D/B/A WEST VIRGINIA ENERGIES	NOT LESS THAN 1/8	1108								
	12-0447-0003-0000 12-0447-0003-0002 4 ANTERO5 12-0447-0003-0003 12-0447-0003-0004 12-0447-0003-0005	12-0447-0003-0000	ł	JACKSON L. SMITH, D/B/A WEST VIRGINIA ENERGIES	BERRY ENERGY CONSULTANTS & MANAGERS INC	ASSIGNMENT	1140								
		12-0447-0003-0002		BERRY ENERGY CONSULTANTS & MANAGERS INC	J & J ENTERPRISES, INC	ASSIGNMENT	1110								
4		12-0447-0003-0003	ANTERO5	J & J ENTERPRISES, INC	EASTERN AMERICAN ENERGY CORPORATION	MERGER/NAME CHANGE	200								
		12-0447-0003-0004		EASTERN AMERICAN ENERGY CORPORATION	ENERGY CORPORATION OF AMERICA	MERGER/NAME CHANGE	59								
		12-0447-0003-0003 12-0447-0003-0004	12-0447-0003-0005	12-0447-0003-0005	12-0447-0003-0005	12-0447-0003-0005	12-0447-0003-0005	12-0447-0003-0005		ENERGY CORPORATION OF AMERICA	ANTERO RESOURCES CORPORATION	ASSIGNMENT	1603		
				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1671								
		12-0427-0027-0000		D. L. NUTTER AND MARGARET R. NUTTER, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	121								
		12-0427-0033-0000 12-0427-0033-0001		SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	204								
		12-0427-0033-0001		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903								
1		13-2105-0001-0000	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136								
		13-2105-0002-0000 13- 2105-0002-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51								
		13-2105-0002-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58								
i		13-2105-0004-0000 THRU		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3							
		13-2105-0012-0000 13-2105-0021-0000 THRU				FIRST AMENDMENT TO MEMORANDUM OF									
		13-2105-0023-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49							
	1	13-2105-0041-0000 THRU	0.400004000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543								
N41	LC008511	13-2105-0055-000 13-2105-0046-0001	Q100304000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576								
		13-2105-0116-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94							
		13-2105-0117-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69							
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS								
ľ		13-2103-0148-0000				SECOND AMENDMENT TO MEMORANDUM OF									
	13-2105-0116-0000 13-2105-0117-0000 13-2105-0117-0001 13-2103-0141-0000 13-2103-0162-0000 13-2103-0176-0000 13-2103-0176-0000			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58							
			,												
		13-2103-0174-0000	2103-0176-0002 2103-0174-0000			THIRD AMENDMENT TO MEMORANDUM OF									
1	13-2103-0175-0000	13-2103-0175-0000 13-2104-0035-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129							
		13-2104-0033-0000		MILTON S. DAVIS AND MARY I. DAVIS	OLANDUS WEST	NOT LESS THAN 1/8	156								
1		1		OLANDUS WEST	JNO. J. P. O'BRIEN	ASSIGNMENT	155								
1	i	12- 0447-0006-0000		JNO. J. P. O'BRIEN	GRASSELLI CHEMICAL COMPANY	ASSIGNMENT	158								

							* 1 0 0 0	VV
1		13-0441-0000-0001		GRASSELLI CHEMICAL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	381	
		13-2105-0056-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
		13- 2105-0057-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		13-2105-0058-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE ,	51	
		13-2105-0060-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		13-2105-0061-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		13-2105-0063-0000	0400700000			FIRST AMENDMENT TO MEMORANDUM OF		
26	LC043728	13-2105-0064-0000	Q100789000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	
		13-2105-0065-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
		13-2105-0067-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
		13-2105-0069-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC. 5 2	MASSIGNMENT	1584	
		13-2105-0071-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC 교 은 구 호	ASSIGNMENT	1600	
		13-2105-0073-0000,		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, ₹1000 € 5	MERGER/NAME CHANGE	WVSOS	
		13-2105-0118-0000 THRU 13-			₩ C 💸 🔞 ·	SECOND AMENDMENT TO MEMORANDUM OF		
		2105-0122-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
		p/o 12-0427-0028-0000		,	₩	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	ı
		13-0447-0005-0000						
		13-0447-0005-0001	1	L. B. DAVIS AND S. J. DAVIS, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	121	
		13-0447-0005-0003		SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	204	
	1	13-0447-0005-0004		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
	1	13-0447-0005-0006 13-0447-0005-0007]	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
		13-0447-0005-0007		CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
		13-0447-0005-0009					58	
		13-0447-0005-0010		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		
		13-0447-0005-0011	İ	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		13-0447-0005-0012 13-0447-0005-0013			l	FIRST AMENDMENT TO MEMORANDUM OF		
g.	LC008512	13-0447-0005-0014	Q100305000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	
8	1 20000312	13-0447-0005-0015	,	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
		13-0447-0005-0016	Į.	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
		13-0447-0005-0017		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
		13-0447-0005-0018 13-0447-0005-0019		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
		13-0447-0005-0021		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		13-0447-0005-0022				SECOND AMENDMENT TO MEMORANDUM OF		
		13-0447-0005-0023		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
		13-0447-0005-0024 13-0447-0005-0025	1					
	1	p/o 12-0447-0023-0031				THIRD AMENDMENT TO MEMORANDUM OF	į	1
		p/o 12-0447-0027-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
29	N/A	12-0447-0028-0000	N/A	ALAN M. RANDOLPH AND DEBORAH K. RANDOLPH	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1711	
	.,,.			LEWIS C. SWISHER AND ALMA SWISHER, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	955	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	1		ł	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
	1	1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
		!		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
10	LC078281	12-0447-0036-0000	Q100950000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	·
10	100/0201	p/o 12-0447-0036-0001	~~~	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
			1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		1	1	2 3		SECOND AMENDMENT TO MEMORANDUM OF	1303	
			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	1
	1		1	DOMINION ENERGY TRANSPORTING	The street in the street stree	THIRD AMENDMENT TO MEMORANDUM OF	1301	
	1		1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	l
	Ī		1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT 968%)	1637	ļ
			 		CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	955	<u> </u>
	1			LEWIS C. SWISHER AND ALMA SWISHER, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
	1			CONSOLIDATED GAS SUPPLY CORPORATION				
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
		12-0447-0044-0000	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	

							* 1 0 0 0) U O U
1		12-0447-0044-0000			F	IRST AMENDMENT TO MEMORANDUM OF		
		12-0447-0044-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC FA	ARMOUT AGREEMENT	1524	49
		12-0447-0044-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	IMITED PARTIAL ASSIGNMENT (50%)	1543	123
13	LC078282	12-0447-0044-0003	Q100408000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ARTIAL ASSIGNMENT (32%)	1576	12
13		12-0447-0044-0004		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	SSIGNMENT	1584	94
		12-0447-0044-000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	SSIGNMENT	1600	69
		12-0447-0051-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		p/o 12-0447-0036-0001				ECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ARMOUT AGREEMENT	1601	. 58
		1				HIRD AMENDMENT TO MEMORANDUM OF		
		ĺ		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ARMOUT AGREEMENT	1621	129
		!		DOMINION ENERGY TRANSMISSION, INC.		SSIGNMENT (68%)	LEWIS 736	22
		12-0467-0006-0000	FEE	JACKSON L. SMITH		EE ,	1708	
36	FEE	12-0467-0006-0000	LEE	LAWRENCE E. HARRIS AND DELPHIA V. HARRIS, HIS WIFE; CLARICE				
				JENKINS, A MARRIED WOMAN; HARRY R. JENKINS, HUSBAND OF	of O O O			
	ļ			CLARICE JENKINS; GOLDIE M. GRAY AND CHARLES GRAY, HER	1 ~ ~ > UEI			
		1		HUSBAND; BETTY HARDMAN AND WILLIAM ARLEY HARDMAN, HER	RI Office · MAY			
				HUSBAND; DOROTHY BETONTE, A MARRIED WOMAN; LEWIS	\(\frac{1}{2} \) \(\frac{1}{2} \)			
					<u> </u>			
	I			BETONTE, HUSBAND OF DOROTHY BETONTE; LINDA HALL AND GARRY		IOT LESS THAN 1/8	1011	
				HALL, HER HUSBAND				3:
		l		CONSOLIDATED GAS SUPPLY CORPORATION		ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION		MERGER/NAME CHANGE	51	
		1		CNG TRANSMISSION CORPORATION		MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.		MEMORANDUM FARMOUT AGREEMENT	1522	
44	LC084281	12-0467-0003-0000	Q100721000		1	IRST AMENDMENT TO MEMORANDUM OF		
			ļ	DOMINION TRANSMISSION, INC.		ARMOUT AGREEMENT	1524	
			CNX GAS COMPANY LLC		IMITED PARTIAL ASSIGNMENT (50%)	1543		
			DOMINION TRANSMISSION, INC.		ARTIAL ASSIGNMENT (32%)	1576		
			CNX GAS COMPANY LLC		SSIGNMENT	1584	94	
	1			NOBLE ENERGY, INC.		SSIGNMENT	1600	69
	Ì	ľ		DOMINION TRANSMISSION, INC.		MERGER/NAME CHANGE	WVSOS	
					S	ECOND AMENDMENT TO MEMORANDUM OF		
			l	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ARMOUT AGREEMENT	1601	58
						HIRD AMENDMENT TO MEMORANDUM OF		j
	ì			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC F.	ARMOUT AGREEMENT	1621	129
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SSIGNMENT (68%)	1637	108
				FLORENCE WIANT, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION N	IOT LESS THAN 1/8	1011	52
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION A	SSIGNMENT	1136	25
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
	1		1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
				DOMINION TRANSMISSION, INC.		MEMORANDUM FARMOUT AGREEMENT	1522	
					F	IRST AMENDMENT TO MEMORANDUM OF		
			ļ	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	ARMOUT AGREEMENT	1524	49
		l .		CNX GAS COMPANY LLC		IMITED PARTIAL ASSIGNMENT (50%)	1543	12
25	LC084284	p/o 12-0467-0008-0000	Q100411000	DOMINION TRANSMISSION, INC.		ARTIAL ASSIGNMENT (32%)	1576	1
35	10064264	p/o 12-0467-0010-0000	Q100 111000	CNX GAS COMPANY LLC		SSIGNMENT	1584	94
	1			NOBLE ENERGY, INC.		SSIGNMENT	1600	
	1			DOMINION TRANSMISSION, INC.		MERGER/NAME CHANGE	WVSOS	
	1		1	DOMINION TRANSPOSION, INC.		ECOND AMENDMENT TO MEMORANDUM OF	****303	
	1	1	1	DOMINION ENERGY TRANSMISSION, INC.	i	ARMOUT AGREEMENT	1601	58
				DOMINION ENERGY TRANSPIRISHON, INC.		HIRD AMENDMENT TO MEMORANDUM OF	1001	3
	I	i	1	DOMINION ENERGY TRANSMISSION, INC.	1	ARMOUT AGREEMENT	1621	12
		1	1	DOMINION ENERGY TRANSMISSION, INC.		SSIGNMENT (68%)	1637	10
								
		1	1	FRENCH S. YOUNG AND ANNA J. YOUNG, HUSBAND AND WIFE		IOT LESS THAN 1/8	808	4
		l	1	HOPE NATURAL GAS COMPANY		CONFIRMATORY DEED	903	1
				CONSOLIDATED GAS SUPPLY CORPORATION		SSIGNMENT	1136	2
	ì		I	CONSOLIDATED GAS TRANSMISSION CORPORATION		MERGER/NAME CHANGE	51	7
	1	l		CNG TRANSMISSION CORPORATION		MERGER/NAME CHANGE	58	36
	Į.			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522]3

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	[]	[FIRST AMENDMENT TO MEMORANDUM OF		
	\	12 0467 0002 0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
	1,000,0013	12-0467-0002-0000 12-0467-0002-0001	Q100847000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
12	LC068012	12-0467-0002-0001	Q100047000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
		12-0407-0002-0002		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
	1			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF	4504	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF	1601	581
							1631	1205
		i		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FARMOUT AGREEMENT ASSIGNMENT (68%)	1621 1637	1295 1081
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNIVIENT (68%)	1037	1001
		l i			EIV Dila			
				AND WAS DEED STAND OF STANDARD DELLA	RECEIN e of Oil a Y 2 6 Departme			
				MARY HOLBERT ELLYSON AND R. G. ELLYSON, HER HUSBAND; DELLA	B S → G B B M P P P P P P P P P P P P P P P P P			
				HOLBERT HARRIS AND STANLEY R. HARRIS, HER HUSBAND; HARRY E.	R Office MAY wv Da			
\		1		HOLBERT AND MARY RUTH HOLBERT, HIS WIFE; EDWARD SNYDER				
				AND VIOLET SNYDER, HIS WIFE; WILLIAM G. HOLBERT JR., A MARRIED	<u> </u>			
	1			MAN; SMITH F. HOLBERT AND GRACE HOLBERT, HIS WIFE; CLAUDIA L.				
ì				HOLBERT, WIFE OF WILLIAM G. HOLBERT JR.; MARY ETHEL YOST, A				
				MARRIED WOMAN; FRANK A. YOST, HUSBAND OF MARY ETHEL YOST;				
				HELEN HAMILTON AND WILLIAM H. HAMILTON, HER HUSBAND; GEO.				
	İ	1		B. HOLBERT AND ELOISE V. HOLBERT, HIS WIFE; MARIE MCDOUGAL				
	ì		l	AND RAY MCDOUGAL, HER HUSBAND; EMMA JEANNE HOLT,				
1				DIVORCED; MARY K. NIXON AND RONALD E. NIXON, HER HUSBAND;			j	
į				RALPH S. SNYDER, WIDOWER; LOUISE NESSELROTTE AND HOMER NESSELROTTE, HER HUSBAND; CLYDE P. SNYDER, DIVORCED; CLARICE				
						l i		
				HOLBERT, WIDOW; DESSIE HOLBERT, WIDOW; A. W. HAMILTON, WIDOWER; A. L. LAYFIELD, WIDOWER; CATHERINE L. HOLBERT,				
			ì	WIDOWER, A. L. LATFIELD, WIDOWER, CATHERINE L. HOLBERT, WIDOW; C. R. HOLBERT, SR. AND ANNA M. HOLBERT, HIS WIFE;				
1				KATHRYN H. HENRY, WIDOW; CARL C. HOLBERT AND VIRGINIA L.				
Ì		10 0107 0000 0000	040000000	HOLBERT, HIS WIFE; LOUISE A. EVANS AND T. J. EVANS, HER				1
17	LC075380	12-0467-0020-0000	Q100586000	HUSBAND; JOHN L. HOLBERT AND LUCILLE E. HOLBERT, HIS WIFE;				
		Į.	ł	GLENNA FLOYD AND V. VERYL FLOYD, HER HUSBAND; BETTY L.	ł			
1				LAYFIELD, SINGLE AND H. R. HOLBERT AND MARIE HOLBERT, HIS WIFE	CONSOLIDATED GAS SLIPPLY CORPORATION	NOT LESS THAN 1/8	1023	569
·				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
 				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		1		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
1				DOMINION (INCIDENTIAL)		FIRST AMENDMENT TO MEMORANDUM OF		
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	491
1	1			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		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
1						THIRD AMENDMENT TO MEMORANDUM OF		
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
				M.M.F. RANDOLPH AND S. F. RANDOLPH, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	152	262
1				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
1		10 045- 0000 0000	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
		12-0467-0030-0000	i	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
1		12-0467-0030-0001	1	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		p/o 12-0467-0032-0003	i	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
1		12-0467-033-0000	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
14	LC005043	p/o 12-0467-0033-0001	Q100542000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125

		14-0401-0004-0000		CNIV CAS COMPANIVILO	NODI E ENEDGY INC	ASSIGNMENT	1584	•
[12-0467-0035-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	MERGER/NAME CHANGE		
l		12-0467-0036-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.		WVSOS	
ì		12-0467-0036-0001		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT SECOND AMENDMENT TO MEMORANDUM OF	1600	
		p/o 12-467-0032-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
				DOMINION ENERGY HANDINGSTON, INC.	THE EXCENSION WALLES	THIRD AMENDMENT TO MEMORANDUM OF	1001	-
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
				W. HAYMOND DAWSON AND RACHEL E. DAWSON, HUSBAND AND	S			
				WIFE	HOPE NATURAL GAS COMPANY & 75	NOT LESS THAN 1/8	776	
ì				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORA FIDE S	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	
				CNG TRANSMISSION CORPORATION		MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.		MEMORANDUM FARMOUT AGREEMENT	1522	
	ļ	1		CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
	10000043	12-0467-0040-0000	Q100828000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
50	LC066643	p/o 12-0467-0053-0000	Q100828000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (3270)	1584	
		1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	ĺ	1			HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
	1	1		NOBLE ENERGY, INC.	ING ENERGY II AFFALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF	1600	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
		1		DOMINION ENERGY TRANSIVISSION, INC.	HG ENERGY II AFFALACHIA, LLC		1601	
		1		DOMESTICAL ENERGY TRANSMISSION INC	HIC ENERGY II ADDALACHIA LLC	THIRD AMENDMENT TO MEMORANDUM OF	1621	
				DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT ASSIGNMENT (68%)	1621 1637	
				BENJAMIN STOUT AND M. E. STOUT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	184	
		ł		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
	ł	Į l		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51		
			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	_	
			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522		
		i i				FIRST AMENDMENT TO MEMORANDUM OF		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	
		12-0467-0043-0000	0100547000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
49	LC015637	p/o 12-0467-0026-0000	Q100547000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
		1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	
		 		W. HAYMOND DAWSON AND RACHEL E. DAWSON, HUSBAND AND				
	· L	1		WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	776	
	İ			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	
		j		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
	1.0000044	12 0467 0063 0000	Q101094000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
22	LC066644	12-0467-0063-0000	Q101034000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
		1			DOMINION ENERGY TRANSMISSION, INC.			
			1	DOMINION TRANSMISSION, INC.		MERGER/NAME CHANGE	WVSOS	
		l	1	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
		ĺ	1	DOLANION ENERGY TRANSPARCION INC	HIG ENERGY II ARRALACHIA LLC	SECOND AMENDMENT TO MEMORANDUM OF		
			l	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
			1		US FAIFROVII ARRALACIUA LLO	THIRD AMENDMENT TO MEMORANDUM OF		
	ĺ	1	1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
		1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1637		

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								~ 14 49 9
				KATE STOUT, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	1022	330
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE PNERSY INC. 0 0	PARTIAL ASSIGNMENT (32%)	1576	125
62	LC073275	12-0487-0006-0000	Q100713000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
<u>-</u>				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSIONLING.	MERGER/NAME CHANGE	WVSOS	
i				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLCO C & & T	ASSIGNMENT	1600	692
					R R P P P P P P P P P P P P P P P P P P	SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC 🙎 🗸 🔾 🗜	FARMOUT AGREEMENT	1601	581
					تَو ﴿ حَمْ وَ	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC ≥	FARMOUT AGREEMENT	1621	1295
i '				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081
				C. ROSS LEWIS AND OPAL LEWIS, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	775	177
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
1				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
l			ł	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
		12-0487-0008-0000	Q10109000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
63	LC066586	12-0488-0024-0000	G10109000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		1		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
						SECOND AMENDMENT TO MEMORANDUM OF		
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
						THIRD AMENDMENT TO MEMORANDUM OF		
	1			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295
	1]		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081



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

May 7, 2021

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

RE:

Drilling Under Roads - Schoen 1205 S-10H

Grant District, Harrison County

West Virginia

Dear Ms. Kees -

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

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

RECEIVED
Office of Oil and Gas.

MAY 26 2021

WV Department of Environmental Protection

Diane C. White

Very truly yours,

Diane White

Enclosures

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

Date of Notic	ce Certification: 02/15/2021	API N	No. 47	
			ator's Well No. Scho	
		Well	Pad Name: Schoen	Well Pad
Notice has I	been given:			
Pursuant to th	ne provisions in West Virginia Code §	§ 22-6A, the Operator has provided t	he required parties v	with the Notice Forms listed
	tract of land as follows:			•
State:	West Virginia	UTM NAD 83		
County:	Harrison /	North		
District:	Grant /	Public Road Access:	McWhorter Road	
Quadrangle:	Mount Clare	Generally used farm na	me: Schoen	
Watershed:	Middle West Fork Creek /			
prescribed by it has provid information r of giving the requirements Virginia Cod	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and s ed the owners of the surface describequired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following information bed in subdivisions (1), (2) and (4) ection sixteen of this article; (ii) that arrivey pursuant to subsection (a), set of this article were waived in writing tender proof of and certify to the section.	on: (14) A certification, subsection (b), se the requirement was ction ten of this arting by the surface or	on from the operator that (i) ction ten of this article, the deemed satisfied as a result icle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require		tice Certification	OOG OFFICE USE ONLY
∐ 1. NO′	TICE OF SEISMIC ACTIVITY or			□ RECEIVED/
		SEISMIC ACTIVITY WAS CON	DUCTED	NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or 🔳 NO PLAT SURVEY W.	AS CONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED B NOTICE OF ENTRY FOR PLAT WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	RFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION	Office o	f Oil and Gas	RECEIVED
■ 5. PUI	BLIC NOTICE	MAY	26 2021	□ received
■ 6. NO	TICE OF APPLICATION		epartment of ental Protection	☐ RECEIVED

Required Attachments:

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

Certification of Notice is hereby given:

Well Operator: HG II Appalachia, LLC

By: Diane White Diane White

Its: Agent

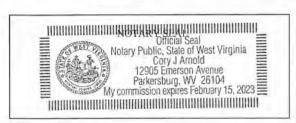
Telephone: 304-420-1119

 Address:
 5260 Dupont Road

 Parkersburg, WV 26101

 Facsimile:
 304-863-3172

 Email:
 dwhite@hgenergyllc.com



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

Notary Public My Commission Expires 2-15-203

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

MAY 26 2021

WV Department or Environmental Protection

API NO. 47		
OPERATOR WE	ELL NO.	Schoen 1205 N-1H to S-10H
Well Pad Name:	Schoen 12	05

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF APPLICATION}}$

Notice Time Requirement: notice shall be provided no later than	n the filing date of permit application.	
Date of Notice: 11.23.20 Date Permit Application Filed: 11/25. Notice of:	5/20	
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10	(b)	
	OD 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 pursuant 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) A 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 e provision 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 provide water purveyor or surface owner subject to notice and water testing a section of the surface owner subject to notice and water testing a section of the surface owner subject to notice and water testing a section of the surface of the surface owner subject to notice and water testing a section of the surface of the	or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of reated; (2) The owners of record of the surface tract or tracts overly if the surface tract is to be used for roads or other land disturbance and to subsection (c), section seven of this article; (3) The coal owners operated to be drilled is located [sic] is known to be underlain by one acts overlying the oil and gas leasehold being developed by the production, enlargement, alteration, repair, removal or abandonment of any surface owner or water purveyor who is known to the applicant thousand five hundred feet of the center of the well pad which is at (6) The operator of any natural gas storage field within which the etenants in common or other co-owners of interests described in ant may serve the documents required upon the person described in notice to a landowner, unless the lien holder is the landowner. We rovide the Well Site Safety Plan ("WSSP") to the surface owner as	ecord of ng the as ner, one or opposed of any of to used to the ng any . Va.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice ☐ SURFACE OWNER(s) Name: George & Rosanne Schoen Address: PO Box 158	COAL OWNER OR LESSEE Name: REC	EIVED
Name: Address:	Address	6 2021
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Thomas Young Address: 4856 SW 95th Gainesville, FL 32608 Name: Joseph Queen Address: P. O. Box 531	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Vera & Oral Haught Address: 400 Justice Avenue Logan, WV 25601	riment of il Protection
Lost Creek, WV 26385 SURFACE OWNER(s) (Impoundments or Pits) Name: Address:	DOPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Dominion Energy Transmission - Attn: Ronald Waldren Address: 925 White Oaks Blvd Bridgeport, WV 26330 *Please attach additional forms if necessary	D

API NO. 47- 033 - 06010 OPERATOR WELL NO. Scho Well Pad Name: Schoen 1205

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

07/02/2021

API NO. 47- 033 - 06010 OPERATOR WELL NO. Schoen 1205 N-1H to S-10H

Well Pad Name: Schoen 1205

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

MAY 26 2021

WV Department of **Environmental Protection**

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

API NO. 47- 033 - 060 10 OPERATOR WELL NO. School 1205 N-114 to S-10H 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.

> RECEIVED Wice of Oll and Gas

ywy Department of Environmental Protection

API NO. 47- 033 - 06010 OPERATOR WELL NO. Schoon 1205 N-1H to S-10H 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:

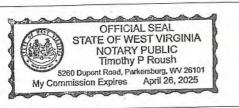
Address: 5260 Dupont Road

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.



worn before me this 1st day of september, 2020 Subscribed

Notary Public

My Commission Expires

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MAY 26 2021

AVV 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

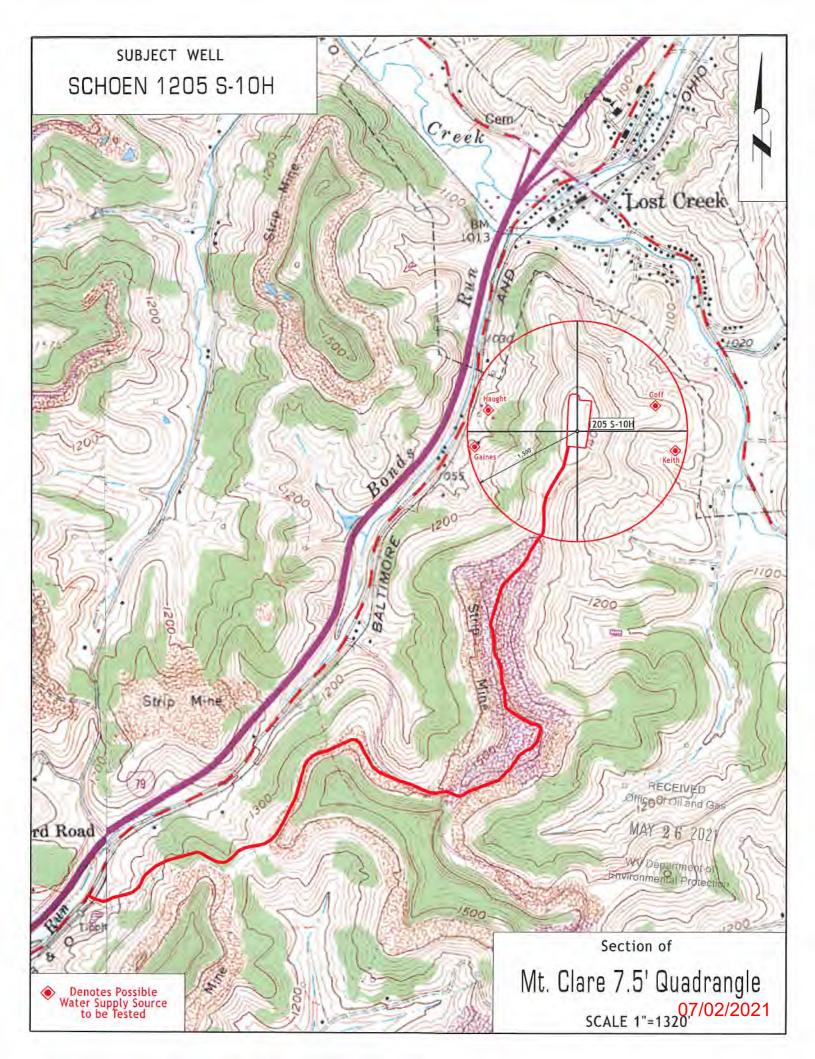
Surface Owner (s) (Road and/or Other Disturbance)

Charles and Franklin Sutton 801 Worthington Drive Bridgeport, WV 26330

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Office of Oil and Gas

MAY 26 2021

WV Department of Environmental Protection



Diane White

From: Vicki Hoops <vhoops@sturmenvironmental.com>

Sent: Wednesday, August 26, 2020 8:58 AM

To: Diane White

Subject: RE: Pre Drill Water Sampling/Analysis for the Schoen 1205 Water Owners - Possible

We will take care of this, thank you!

Vicki

From: Diane White [mailto:dwhite@hgenergyllc.com]

Sent: Wednesday, August 26, 2020 8:23 AM

To: vhoops@sturmenvironmental.com

Subject: Pre Drill Water Sampling/Analysis for the Schoen 1205 Water Owners - Possible

Vicki,

Please schedule pre drill water sampling and analysis for the sources identified below. As you'll see we don't have phone numbers for the

people but I am attaching some mapping which will help you identify the sources.

As per usual, please document any source where the surface owner does not want testing to occur.

Thanks and have a great day,

Diane

From: Timothy Roush <troush@hgenergyllc.com>

Sent: Wednesday, March 4, 2020 1:45 PM
To: Diane White <dwhite@hgenergyllc.com>
Cc: Cory Arnold <carnold@hgenergyllc.com>

Subject: 1205 WSW Owners

Diane,

Below are the WSW owners for the 1205 Unit. Again, I could not find many of the phone numbers. Cory, if you can help again it would be much appreciated.

- 1. Vera E. Haught & Oral Haught, 400 Justice Ave., Logan, WV 25601 304-752-7179
- 2. Marilyn Gaines, 1191 McWhorter Road, Lost Creek, WV 26385
- 3. Keith & Diana Bramel, 124 Tree Frog Lane, Lost Creek, WV 26385
- 4. Stephen & Kimberly Goff, 412 Hill Top Drive, Lost Creek, WV 26385

Tim

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MAY 2 6 2021

WV Department of Environmental Protection

Timothy P. Roush, PS

HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 troush@hgenergyllc.com WW-6A4 (1/12) Operator Well No. Schoen 1205 NIH to 8-10H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Notice:	quirement: Notice shall be p	Date Permit Appli	cation Filed: 01/11/2021			
Delivery metho	d pursuant to West Virgini	a Code § 22-6A-16(b)			
HAND	CERTIFIED M	EIPT REQUESTED				
DELIVERY				1 11 1	مد المحمد لم الأمان	£
receipt requested drilling a horizo of this subsectio	Va. Code § 22-6A-16(b), at led or hand delivery, give the sontal well: <i>Provided</i> . That not not as of the date the notice was be waived in writing by the sontal facsimile number and electrons.	urface owner notice otice given pursuant as provided to the su- ourface owner. The	of its intent to enter upon to to subsection (a), section to rface owner: <i>Provided</i> , how notice, if required, shall incl	on of this article satisfies wever, That the notice required the name, address, to	the requirem quirements of elephone nun	ents this
Notice is here	by provided to the SURF	ACE OWNER(s)				
Name: George &	Rosanne Schoen		Name:			
Address: PO Box	158		Address:		-	
	ek, WV 26385				_	
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Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

NOTICE OF PLANNED OPERATION

Notice Time Date of Notic	Requirement: notice shall be provide: 12/29/2020 Date Per		ater than the filing da lication Filed: 01/11/20		application.
Delivery me	thod pursuant to West Virginia C	ode § 22-	-6A-16(c)		
■ CERTI	FIED MAIL	Пн	IAND		
	RN RECEIPT REQUESTED		DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose he surface affected by oil and gas on the estimate of the section shall be greety provided to the SURFACE O	e surface this sub- n ten of t d surface erations given to t WNER(owner whose land we section shall include: his article to a surface to use and compensation to the extent the dama the surface owner at the	ill be used for (1) A copy owner whose on agreement 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 we land will be used in conjunction with the it containing an offer of compensation for pensable under article six-b of this chapter. Seted in the records of the sheriff at the time
	s listed in the records of the sheriff	at the tin	ne of notice): Name:		
Address: PO		V	Address:		
	Creek, WV 26385	- ¥			
	reby given: Vest Virginia Code § 22-6A-16(c), r the surface owner's land for the pur West Virginia Harrison				well operator has developed a planned ct of land as follows: 555986.976 4333800.330
District:	Grant		Public Road Ac	-	McWhorter Road / SR 19
Quadrangle:	Mount Clare 7.5'		Generally used		Schoen
Watershed:	Middle West Fork Creek				
Pursuant to V to be provid horizontal we surface affectinformation	ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may b, located at 601 57th Street, SE,	to a sur and com e extent e obtain	face owner whose la pensation agreement of the damages are com- led from the Secretary	and will be used to the containing are pensable under the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oif-and-gas
Well Operato	Dr: HG Energy II Appalachia, LLC		Address: 52	60 Dupont Road	MAI 20 2021

Oil and Gas Privacy Notice:

304-420-1119

dwhite@hgenergyllc.com

Telephone:

Email:

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

Parkersburg, WV 26101

Facsimile: 304-863-3172

WV Department of

Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

September 3, 2020

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

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

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

Subject: DOH Permit for the Schoen 1205 Pad, Harrison County Schoen S-10H Well Site

Dear Mr. Martin,

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

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

Very Truly Yours,

RECEIVED Office of Oil and Gas

MAY 26 2021

WV Department of Environmental Protection

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc:

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

File

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

	<u> </u>	T
Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
. 10 011010 01111 100		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
DDOCEL 4.5	C4742.0C.7	
PROGEL - 4.5	64742-96-7	
DIO CLEAR 2000	Mistrone	25322-68-3
BIO CLEAR 2000	Mixture	10222-01-2
		10222 01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	- 1
		<u> </u>
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
DDOCEL 4	0000 20 0	
PROGEL - 4	9000-30-0	1

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Office of Oil and Gas

MAY 26 2021

WV Department of Environmental Protection

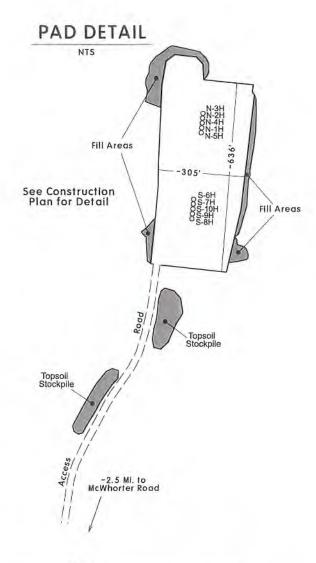
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PROGEL - 4	9000-30-0	

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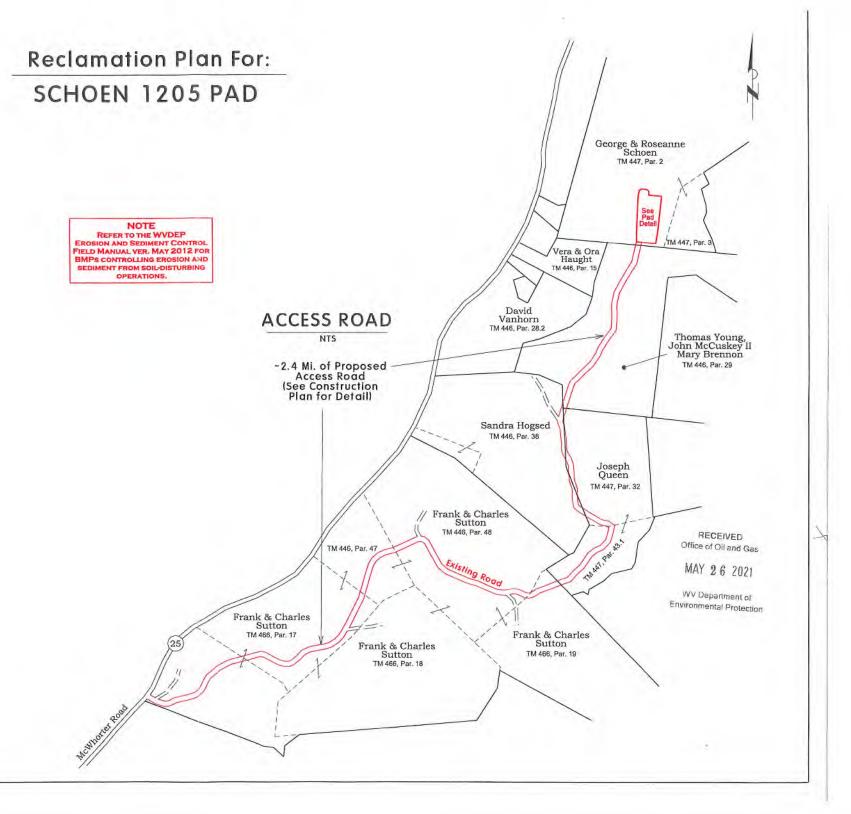
MAY 26 2021

WV Department of 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.



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

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

CONSTRUCTION SEQUENCE

- 1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install parked, staged, operated or located for any purpose.
- Site access This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles.

 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.
- 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.

 B. Final Stabilization, Topsoiling, Trees and Shrubs - After
- construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP

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 BITTSBURGH, PA 15205 (412) 722-1222



WELL !	LAT.	LONG.
N-3H	N 39.1574656	W 80.351872
N-2H	N 39,1524277	W 80.3518782
N=4H	N 39.1523867	W 80.35188.5
H-5H	N 39.1523457	W 80.351889.
N-SH	N 39.1523047	W 80.3518949
SHBH .	N 39.1516447	W 80.3520486
9-7H	N 39.1516039	W 80,3570554
S-10H	N 39.1515630	W 80.3520622
5-9H	N 39 1315222	W 80,3520690
5-8h	N 39.1514813	W 80,3520758
	WELL ELEVATIONS UTMS3-1	

	LATITUDE	LONGITUDE
205 WELL PAU ACCESS ROAD ENTRANCE	N 39.1340433	₩ 80.3760995

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	WITHIN LCC
INTERSTATE 79 RIGHT OF WAY	14/A	N/A	0.704
PRANKLIN L. SUTTON	17-12-0486-0014-0002	39.4314	0.498
CHARLES R. SUTTON	17-12-0466-0015-0000	11.3+66	0.532
FRANKLIN L 'SUFTON	17-12-0466-0016-0000	22.3733	1.391
CHARLES R. SLITTON	17-12-0466-0017-0000	37,5166	3,008
FRANKLIN = SUTTON	17-12 0446 0047-0030	25.9588	1,399
CHARLES R. SUTTON	17 12 0446 0048 0000	86,5040	3,008
CHARLES # SUTTON	17-12-0466-0019-0000	62.7575	0.604
JOSEPH C. QUEEN	13-12-8447-0043-0001	16.9336	-2-145
JOSEPH C. QUEEN	17-12-0447-0022-0000	35,5560	2.162
THOMAS K YOUNG	17-12-0446-0029-0030	73.275A	6.570
GEDRGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	/1.2564	7.752
TOTAL LIMIT	OF DISTURBANCE	-	29 B13 W





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

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

YOU DIG!

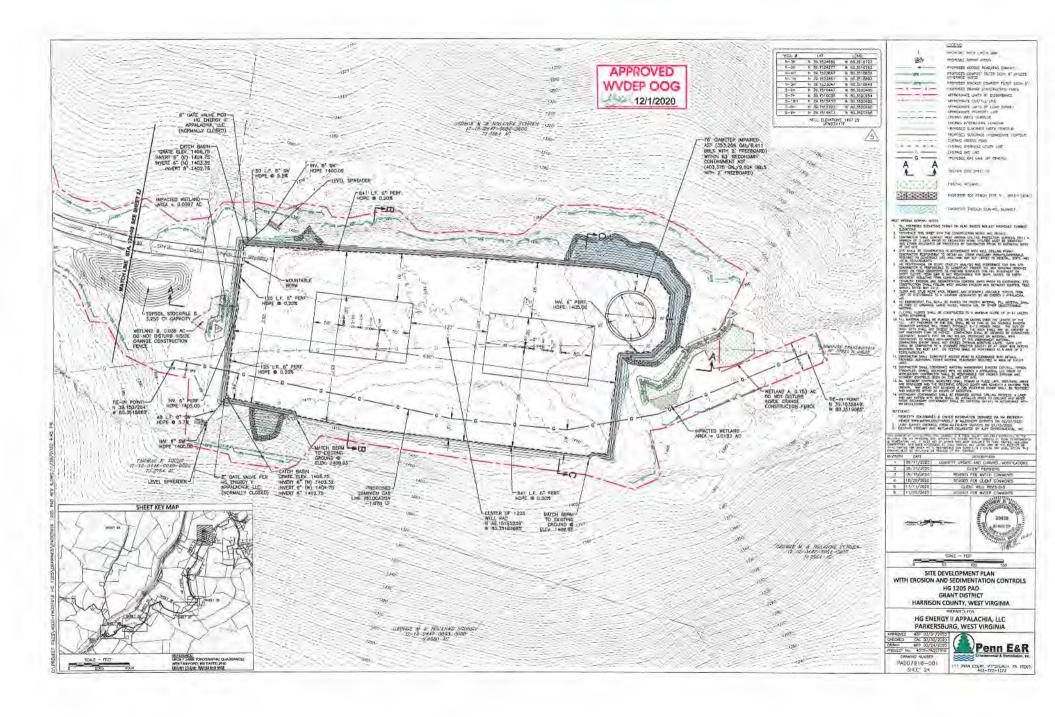
Dial 811 or 800,245,4848

PA007916-001



WEST VIRGINIA

1 SERVICE UTBITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONDED FOR LOCATING MAINTAINING, AND REPLACING AS RECEIVING UTBINSHIP CONTRIBUTE SHIPPORT



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

2A-2K 5	ITLE SHEET SITE DEVELOPMENT PLANS
ALL CITY	THE DEVELOPMENT PLANS
3 Y	YELL PAD SECTIONS
4A-4D #	CCESS ROAD SECTIONS
5A-5F (CONSTRUCTION NOTES & DETAILS
6A-6J F	RESTORATION PLAN
7A-7C F	PROPERTY MAP

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GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

RECEIVED Office of Oil and Gas

MAY 2 6 2021

WV Department of Environmental Protection 205 Well Fact Staging Area (15 658) 3,550 20,405 (23,512)

WELL #	LAT.	LONG.
N=3H	N 39.1524686	W 80.3518727
N-2H	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
5-8H	N 39.1516447	W 50.3520456
S-7H	H 39.1516039	W 80.3520554
S-10H	N 39.1515630	W 60.3526622
5-9H	N 39.1515222	W 50.3520690
5-811	N 39.1514813	₩ 50,3520755
	WELL ELEVATION UTM83-	

	LATITUDE	LONGITUDE
1205 WELL PAD ACCESS ROAD ENTRANCE	N 39,1340433	W 80.3760995

RECORD OWNER	RECORD LOT #	AREA OF LOT	AREA WITHIN LOD
INTERSTATE 79 RIGHT OF WAY	N/A	N/A	0.704
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CHARLES R. SUTTON	17-12-0466-0017-0000	37,5166	3,008
FRANKLIN L. SUTTON	17-12-0446-0047-0000	25.9586	1.399
CHARLES R. SUTTON	17-12-0445-0048-0000	86,5040	3.008
CHARLES R. SUTTON	17-12-0455-0019-0000	62.7575	0.604
JOSEPH C. CUEEN	17-12-0447-0043-0001	16.9336	2,145
JOSEPH C. QUEEN	17-12-0447-0032-0000	35.5669	2.162
THOMAS K. YOUNG	17-12-0446-0029-0000	73.275	6.570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2564	7.792
TOTAL LIMIT	OF DISTURBANCE	~	29.813 AC

12/1/2020

APPROVED WVDEP OOG

DRAFFING MUST BE RETURNED ON RECORDS OF THE CONSTANT.				
N DATE	DESCRIPTION			
08/17/2020	CUANTITY UPDATE AND CHANKEL MODIFICATIONS			
D8/27/2020	CLENT REVISIONS			
09/18/2020	REVISED PER WYDEP CONVENTS			
10/28/2020	REVISED PER CLIENT CONVENTS			
11/11/2020	CLIENT WELL REVISIONS			
11/20/2020	REVISED PER WYDEP COMMENTS			
	N DATE 08/17/2020 08/27/2020 09/18/2020 10/28/2020 11/11/2020			



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

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

Penn E&R



PREPARED FOR

HG ENERGY II APPALACHIA, LLC

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Dial 811 or 800.245,4848

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