

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

Tuesday, March 23, 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-9H

47-033-06006-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: SCHOEN 1205 S-9H

Farm Name: GEORGE & ROSEANNE SCH

U.S. WELL NUMBER: 47-033-06006-00-00

Horizontal 6A New Drill Date Issued: 3/23/2021

AD	1 2 7-		
AP	IN	um	Der

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: 4703306006

PERMIT CONDITIONS

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



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 Fax: (304) 926-0452 Austin Caperton, Cabinet Secretary dep.wv.gov

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

TO: HG Energy, LLC 5260 Dupont Circle Parkersburg, WV 26101 DATE: November 30, 2020 ORDER NO.: 2020-W-6

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

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

CONCLUSIONS OF LAW

- 1. West Virginia Code §22-1-6(d) requires, in part, that "in addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."
- 2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."
- 3. West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

Order No. 2020-W-6

Page 2

<u>ORDER</u>

West Virginia Code §22-6A-12(b) requires, in part, that "no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetlands A and B from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API#s 47-033-05995. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Schoen 1205 Well Pad:

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

Order No. 2020-W-6

Thus ORDERED, the 30th day of November 2020.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

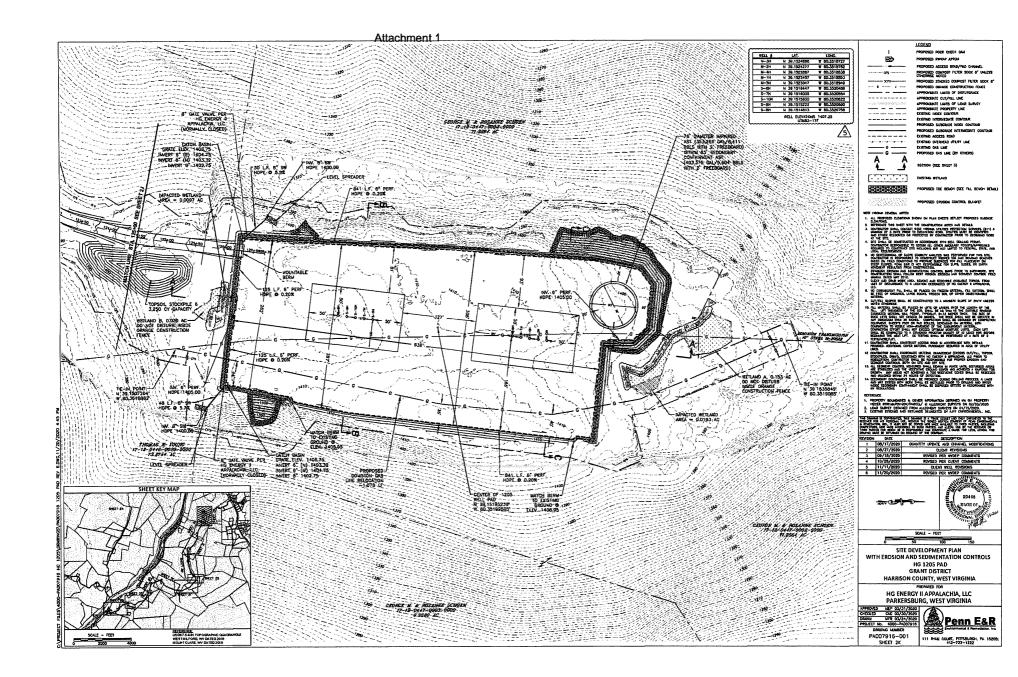
OFFICE OF OIL AND GAS DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA

By: James Martin Orgitally signed by James Martin Date 2020.11.30 17:1446-05'00'

JAMES A. MARTIN, CHIEF

Order No. 2020-W-6

Page 4



470330600E

OPERATOR WELL NO. Schoen 1205 S-9H

Well Pad Name: Schoen 1205

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

1) Well Operat	tor: HG Energy	/ II Appalachia,	494519932	Harrison	Grant	Mount Clare 7.5'
i) ii on operai			Operator ID	County	District	Quadrangle
2) Operator's \	Well Number: S	choen 1205 S-9	H Well P	ad Name: Sch	oen 1205	
3) Farm Name	/Surface Owner:	George School	en Public R	oad Access: N	1cWhorter I	Road / SR25
4) Elevation, c	urrent ground:	1410'	Elevation, propose	d post-construc	ction: 1407	er.
5) Well Type	(a) Gas <u>x</u> Other	Oil _	Un	derground Stor	rage	
		allow X	Deep			
6) Evicting Pa	Ho d: Yes or No No	orizontal X		Bany i	Stoly :	2-2-21
7) Proposed T	arget Formation(s), Depth(s), Ant	ricipated Thickness	s and Expected	-	
8) Proposed T	otal Vertical Dep	oth: 7240'				
	at Total Vertical		us			
10) Proposed	Total Measured I	Depth: 25,175				
11) Proposed	Horizontal Leg L	Length: 17,118				
12) Approxim	ate Fresh Water	Strata Depths:	135', 480', 64	0', 728'		
13) Method to	Determine Fresl	h Water Depths:	Nearest offset v	vell data		
14) Approxim	ate Saltwater De	pths: 1730, 17	80, 2010			
15) Approxim	ate Coal Seam D	Depths: 501, 650', 7	730', 736' (Surface casi	ng is being extende	d to cover the o	coal in the DTI Storage Field
16) Approxim	ate Depth to Pos	sible Void (coal	mine, karst, other)	: None		
	oosed well location			1	No X	
(a) If Yes, p	rovide Mine Info	: Name:				
		Depth:				
		Seam:				RECEIVED Office of Cilenet Gas
		Owner:				Office of Oil and Gas
						FFB 98 2021

WW.Department of EFONORIMENTAL Protection

4703306006

API NO. 47-_

OPERATOR WELL NO. Schoen 1205 S-9H

Well Pad Name: Schoen 1205

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	<u>Grade</u>	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	25175'	25175'	20% excess tail, CTS
Tubing							
Liners							

					Bang V	Melon o	1-2-21
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tall 0% Excess Le
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tall yield 1.94
Tubing	1 1						
Liners							

PACKERS

Kind:			
Sizes:			
Depths Set:			

RECEIVED Office of Oil and Gas

FEB 0 8 2021

WV Department of Enviropage 2 of 3 of 3 of 2021

WW-6B (10/14) 4703306006 API NO. 47-

OPERATOR WELL NO. Schoen 1205 S-9H
Well Pad Name: Schoen 1205

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7240 feet. Drill horizontal leg to estimated 17,118' lateral length, 25,175' TMD. Hydraulically fracture stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

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

No centralizers will be used with conductor casing.
Freshwater - centralized every 3 plints o surface.
Freshwater - centralized every 3 plints to surface.
Freshwater - centralized every 3 plints of surface.
Freshwater - centralized every 3 plints of surface.
Freshwater - centralizer - centralize

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

Conductor -W/A, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water - 15.6 ppg PNE-1 + 3% bwoc CaC1, 40% Excess Yield = 1.20, CTS
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCI zero% Excess. CTS'
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCIAG(M; Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc R)
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is dean at TD.

Fresh Water - Choic casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.

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

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

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

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

RECEIVED
Office of Oil and Gas

+

FEB 08 2021

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

4703306006

RECEIVED Office of Oil and Gas

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

FEB 0 8 2021

Premium NE-1 is a portland cement with early compressive strength properties. Premium NE-1 Portland Cement Commonly called gel, it is a card material used as a cement extender and to control excessive free water. Bentonite Premium NE-1 is a portland cement with early compressive strength properties. Ingredient name Portland cement Calcium oxide	CAS number 65997-15-1 1305-78-8 1309-48-4 14808-50-7 CAS number 1302-78-9
emium NE-1 Portland Cement Calcium oxide Magnesium oxide Crystalline silica: Quartz (SiO2) Commonly called gel, it is a clay material used as a cement extender and to control excessive free water. Ingredient name bentonite Crystalline silica: Quartz (SiO2) Ingredient name bentonite Crystalline silica: Quartz (SiO2) 5 - 10	1305-78-8 1309-48-4 14808-60-7
Magnesium oxide Crystalline silica: Quartz (SiO2) Commonly called gel, it is a clay material used as a cement extender and to control excessive free water. Ingredient name bentonite Crystalline silica: Quartz (SiO2) Ingredient name bentonite Crystalline silica: Quartz (SiO2) 5 - 10	1309-48-4 14808-50-7 CAS number
Commonly called gel, it is a clay material used as a cement extender and to control excessive free water. Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	CAS number
a clay material used as a cement extender and to control excessive free water. Ingredient name bentonite Crystalline sillca: Quartz (SiO2) 76 bentonite Crystalline sillca: Quartz (SiO2) 5 - 10	
a clay material used as a cement extender and to control excessive free water. Ingredient name bentonite Crystalline sillca: Quartz (SIO2) 5 - 10	
control excessive free water. Crystalline sillca: Quartz (SiO2) 5 - 10	1302-78-9
control excessive free water.	14808-60-7
A powdered, flaked or pelletized material used Ingredient name %	CAS number
to decrease thickening Calcium chloride 90 - 100	10043-52-4
time and increase the rate	
of strength development	
um Chloride Accelerator	
Graded (3/8 to 3/4 inch) Ingredient name %	CAS number
cellophane flakes used as a lost circulation material.	
a jost circulation material. ————————————————————————————————————	
States and the state of the sta	
CD 421 is a class limited	
FP-13L is a clear liquid organic phosphate	
antifoaming agent used in	CAS number
cementing operations. It	126-73-8
is very effective Tributyl phosphate 90 - 100 minimizing air	100.00
entrapment and	
preventing foaming	
tendencies of latex systems.	
13L Foam Preventer	
Ingredient name %	CAS number
Used to retard cement Sucrose 90 - 100	57-50-1
nulated Sugar Retarder returns at surface.	
A proprietary product that provides expansive	
properties and improves	
bonding at low to Ingredient name %	CAS number
moderate Calcium magnesium oxide 90 - 100	37247-91-9
temperatures.	
Multi-purpose polymer	
additive used to control Ingredient name %	CAS number
free fluid, fluid loss, rheology, and gas No hazardous ingredient	
A-170 Gas Migration migration.	
A synthetic pozzolan, (primarily Silicon Dioxide).	
When blended with	
cement, Pozzolan can be Ingredient name %	CAS number
used to create Crystalline silica: Quartz (SiO2) 5 - 10	14808-60-7
slurries used as either a Calcium oxide 1 - 5	1305-78-8
filler slurry or a sulfate	
resistant completion cement.	
(Fly Ash) Base	

	0.00
A low temperature	CAS number Trade secret
retarder used in a wide Ingredient name %	Litane serier
TO MAKE THE PARTY OF THE PARTY	A COLUMNIA
retarder used in a wide range of slurry formulations to extend the slurry thickening time. Ingredient name % Organic acid sait 40 - 50	T. S. C.
retarder used in a wide range of slurry Organic acid sait	
retarder used in a wide range of slurry formulations to extend the slurry thickening time. Retarder Ingredient name % Organic acid salt 40 - 50	CAS number
retarder used in a wide range of slurry formulations to extend the slurry thickening time. Retarder Ingredient name	CAS number 111-76-2
retarder used in a wide range of slurry formulations to extend the slurry thickening time. Retarder Ingredient name	CAS number 111-76-2 Trade secret. 110615-47-9
retarder used in a wide range of slurry formulations to extend the slurry thickening time. Retarder Ingredient name	CAS number 111-76-2 Trade secret.



Marcellus Shale Horizontal

1205 S-9H Harrison County, WV

	on										6.96E	
A=m	Ground Elevation 1		1407.3	3'		1205	S-9H LF	9	14	218755.22N 18257	false (I)	
Azm			159.79	98° 1205 S-9H BHL		L	14	202696.13N 18316	92.49E			
WELLBORE DIAGRA	MA	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
	1											
×	x	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness	
				Fresh Water	0	135, 480, 640, 728		15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wall thickness Burst=2110 psi	
x	X	24"	20" 94# J-55	Coal	730	736	AIR	40% Excess	joints to surface			
_×	x			Surface / FW	0	1200		Yield=1.20 / CTS		pumping cement.	buist-2110 poi	
							AIR / KCL Salt Polymer	40% Excess / Tall. 15.9	Bow Spring on every	Once casing is at setting	Intermediate casing = 0.480" wall thickness	
		200.00	13-3/8" 68# J-55 BTC	Little/Big Lime	1467 / 1510	1482 / 1556			joint	depth, Circulate and condition at TD. Circulate a		
x	X	17.5"		Injun / Gantz (Storage)	1565 / 1900	1690 / 1970		ppg PNE-1 + 2.5% bwoc CaCl	*will also be running ACP for isolating	minimum of one hole volume prior to pumping	Burst=3450 psi	
				Intermediate 1	0	2100		zero% Excess, CTS	storage zone*	cement.		
	(Fifty / Thirty Foot	1993 / 2112	2093 / 2147		Lead: 15,4 ppg PNE-1 +		Once casing is at setting		
			7.577.554	Gordon Stray / Gordon	2195 / 2250	2250 / 2310	AIR / KCL - Salt Polymer	2.5% bwoc CaCl	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0.39	
		12.25"	9-5/8" 40# J-55 BTC	5th Sand	2440	2468		40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	condition mud at TD. Circulate a minimum of one	wall thickness	
x x	(Warren	2835	2860		CaCl zero% Excess. CTS	surface	hole volume prior to pumping cement.	Burst=3950 psi	
				Intermediate 2	0	2950						
x x	1	/		Speechley	3028	3162			Run 1 spiral centralizer			
		8.5" Vertical		Bradford	3342	3367	9.0ppg	PARTY CONTRACTOR	every 5 joints from the			
_		8.5 Vertical		Benson	4420	4455	SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3%	top of the curve to surface.			
9					2025	4 445		bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk		Once on bottom/TD with		
0				Rhinestreet	5872	6549		FP13L + 0.3% bwoc		casing, circulate at max		
			5-1/2"	Cashaqua	6549	6740		MPA170 Tail: 14.8 ppg PNE-1 +		allowable pump rate for at least 2x bottoms up, or until	Production casing = 0.415 wall thickness	
C X X		1787.50	23#	Middlesex	6740	6870	11.5ppg-	0.35% bwoc R3 + 0.75		returns and pump	Burst=16240 psi	
0		8,5" Curve	P-110 HP CDC HTQ	West River	6870	7003	12.5ppg SOBM	gal/sk FP13L + 50% bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	pressures indicate the hole is clean. Circulate a	Note: Actual centralizer schedules may be change	
m			ODOTTIA	Burkett	7003	7048	3 5 5 5 5 1	bwac MPA170	every 3 joints from the	minimum of one hole	due to hole conditions	
M				Tully Limestone	7048	7149		20% Excess Lead Yield=1,19	1st 5.5" long joint to the top of the curve.	volume prior to pumping cement.		
				Hamilton	7149	7214		Tail Yield=1,94	34 37 33 33 34 34			
0				Marcellus	7214	7315	11.5ppg-	CTS	1			
47		8.5" Lateral		TMD / TVD (Production)	25175	7240	12.5ppg SOBM					
X X				Onondaga	7315							
		X	Χ	X	X		X	X	X	X	X	

PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES:

DOMINION FINK/KENNEDY/LOST CREEK -GANTZ SAND

WELL NAME: Schoen 1205 S-9H

Well# 1205 S-9H

DISTRICT/COUNTY/STATE: Grant / Harrison / WV

Submitted

JOSH HINTON HG ENERGY, LLC

Dominion Energy Transmission

Dominion Energy Transmission

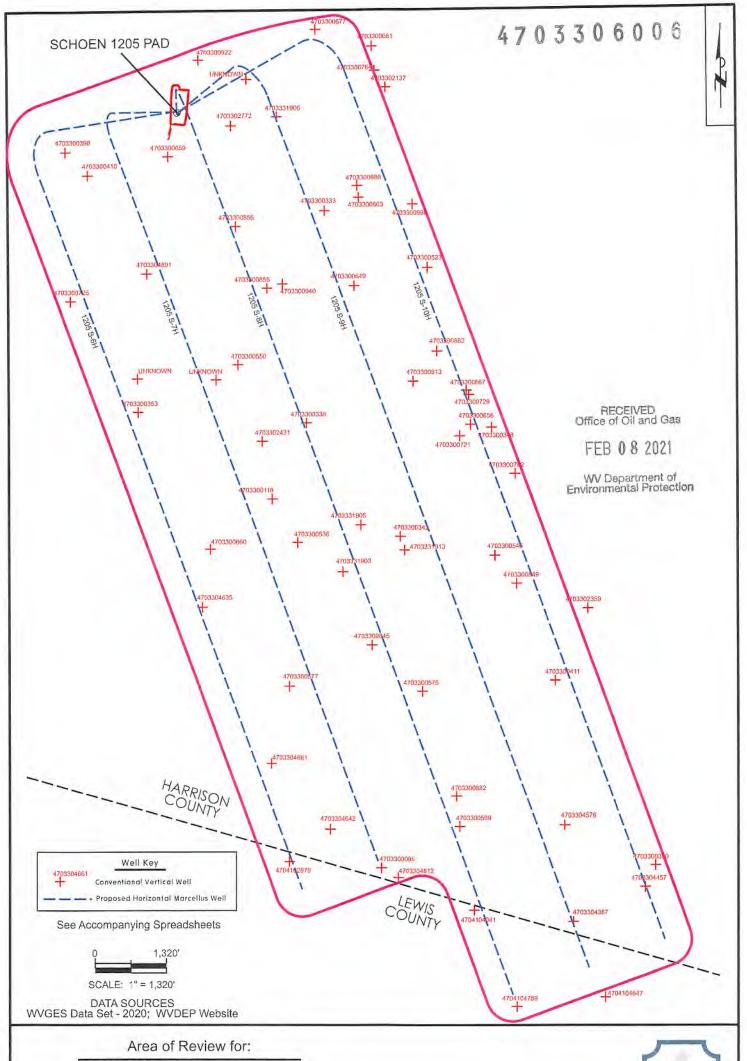
Comments:

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, LLC

RECEIVED
Office of Oil and Gas

FEB 0 8 2021

WV Department of Environmental Protection



SCHOEN 1205 SOUTH UNIT

Proposed 1205 S-6H Proposed 1205 S-7H Proposed 1205 S-8H Proposed 1205 S-9H Proposed 1205 S-10H

Grant District, Harrison County, W.Va. & Hacker's Creek District, Lewis County, W.Va.

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

12/28/2020



FI	EB 0 8 2021		SCHOEN 1	EXISTING WELLS LOCATED 205 SOUTH UNIT AND PROPO	WITHIN THE AREA OF REVIEW		R. C.11H	i		
PCT vira	V Department of Inmental Protection	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	80.34251.
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	-80.33780
6	4703300348	Harrison	Sarah F Vincent	UNKNOWN	Hampshire Grp	Gas	2054	PLUGGED	39.135437	-80.33173
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	-80.35485
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	-80.35797
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	-80.33582
13	4703300536	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Benson	Gas	4410	ACTIVE	39.129739	-80.34451
14	4703300546	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Benson	Gas	4260	ACTIVE	39.128982	-80.33161
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	-80.34514
18	4703300599	Harrison	Amanda E Smith	Dominion Energy Transmission, Inc.	Bayard	Gas	2512	ACTIVE	39,115515	-80.33481
19	4703300613	Harrison	Lewis C Swisher	Dominion Energy Transmission, Inc.	Benson	Gas	4457	ACTIVE	39,137811	-80.33683
20	4703300649	Harrison	G W Swisher	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2347	ACTIVE	39.142725	-80.34065
21	4703300656	Harrison	F S Young CW520	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	1894	PLUGGED	39.135593	-80,33312
22	4703300659	Harrison	S V Curry CW433	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1990	ACTIVE	39.149343	-80.352710
23	4703300661	Harrison	M 5 Davis CW538	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1885	ACTIVE	39.154774	-80.33926
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	-80.34293
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

RECEIVED Gas

						WELL WITH TVD > 4,45			NOTES SURVEYED	
65	4704104789	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4452	ACTIVE	39.106148	-80,33043
64	4704104041	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4465	ACTIVE	39.111069	-80.33318
63	4704102879	Lewis	A S Holbert	Dominion Energy Transmission, Inc.	not available	Storage	2326	ACTIVE	39.113588	-80.34524
62	4703304635	Harrison	Charles R/F Sutton	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4660	ACTIVE	39.126514	-80.3507
61	4703300725	Harrison	W E Ware	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1985	ACTIVE	39.142073	-80.3592
				ADDITIONAL WELLS ADDED AS PER	UPDATED WVDEP DATA AND FIELD	SURVEYS				
60	UNKNOWN	Harrison	Lloyd D. Swisher	UNKNOWN	UNKNOWN	not available	2209	UNKNOWN	39,137999	-80.349
59	UNKNOWN	Harrison	Lloyd D Swisher 1656	UNKNOWN	UNKNOWN	not available	2036	UNKNOWN	39.138091	-80.354
58	UNKNOWN	Harrison	J.J. Lewis	UNKNOWN	UNKNOWN	not available	1 +	PLUGGED	39.153186	-80.347
57	4704104647	Lewis	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4649	ACTIVE	39.106966	-80.324
56	4703331913	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	UNKNOWN	not available	2345	PLUGGED	39.129301	-80.337
55	4703331906	Harrison	F S Young	Dominion Energy Transmission, Inc.	Gantz	Storage	1910	ACTIVE	39.151283	-80.345
54	4703331905	Harrison	M F Randolph CW422	Dominion Energy Transmission, Inc.	UNKNOWN	Storage	2182	UNKNOWN	39.130586	-80.340
53	4703331903	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2164	ACTIVE	39.128236	-80.341
52	4703304891	Harrison	Joseph C Queen	Dominion Energy Transmission, Inc.	not available	not available		PLUGGED	39.143411	-80.354
51	4703304812	Harrison	Catherine Mauro	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4302	ACTIVE	39.112912	-80.338
50	4703304661	Harrison	Gloria M Coward	Dominion Energy Transmission, Inc.	Benson	Gas	4350	ACTIVE	39.118568	-80.346
9	4703304642	Harrison	Myrtle B Arobogast	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4453	ACTIVE	39.115232	-80.342
18	4703304576	Harrison	Patricia B/Virginia L Smith	Dominion Energy Transmission, Inc.	Benson	Gas	4632	ACTIVE	39.115522	-80.327
7	4703304457	Harrison	Wayne R Lewis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4420	ACTIVE	39.112332	-80.32
6	4703304387	Harrison	Thomas C Kennedy	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4577	ACTIVE	39.110737	-80.327
5	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	Gas	4427	ACTIVE	39.150855	-80.348
4	4703302431	Harrison	J & F Allman	Dominion Energy Transmission, Inc.	Benson	Gas	4664	ACTIVE	39.134863	-80,346
13	4703302359	Harrison	W D Dawson	Dominion Energy Transmission, Inc.	Benson	Gas	4374	ABANDONED	39.126266	-80.325
12	4703302333	Harrison	M S Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4478	ACTIVE	39.152701	-80.338
1	4703300988	Harrison	S G Kennedy CW531	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1910	ACTIVE	39,146770	-80.336
10	4703300940	Harrison	Levi B Davis CW431	Dominion Energy Transmission, Inc.	Fifth	Storage	2137	ACTIVE	39.147749	-80.340
39	4703300940	Harrison	Susan Curry	Dominion Energy Transmission, Inc.	Benson	Gas	4256	ACTIVE	39.142820	-80.345
38	4703300882	Harrison	A B Yost	Dominion Energy Transmission, Inc.	Benson	Gas	4455	ACTIVE	39.154204	-80.350
7	4703300882	Harrison	Patricia B Smith	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1965	ACTIVE	39.117546	-80.335
onn 6	4703300860	Harrison	Burgett Swisher CW470	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1925	ACTIVE	39.129447	-80.350
4 D	Local CALAL ACT	Harrison	Susan V Curry CW472	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1950	ACTIVE	39.145753	-80.348
0	0 8 2021 4703300855	Harrison	Susan V Curry	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1877	ACTIVE	39.142614	-80.346.

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

API Number 47 4 7 0 3 3 0 6 0 0 6

Operator's Well No. Schoen 1205 S-9H

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
	Mount Clare 7.5'
Do you anticipate using more than 5,000 bbls of water to complete the proposed w	vell work? Yes 🗸 No
Will a pit be used? Yes No V	
If so, please describe anticipated pit waste: NA	
Will a synthetic liner be used in the pit? Yes No If s	so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number	
Reuse (at API Number TBD - At next anticipated well Off Site Disposal (Supply form WW-9 for disposal loc	ation)
Other (Explain	attony
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a close	ed loop system, re-used or hauled to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater	er, oil based, etc. Vortical - Air, Air/KCL, Air/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting A	gents
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Appro	ved Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lin	ne, sawdust)_NA
-Landfill or offsite name/permit number? See Attached	
Permittee shall provide written notice to the Office of Oil and Gas of any load of d West Virginia solid waste facility. The notice shall be provided within 24 hours of where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the G on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department provisions of the permit are enforceable by law. Violations of any term or cond law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and an application form and all attachments thereto and that, based on my inquiry obtaining the information, I believe that the information is true, accurate, and penalties for submitting false information, including the possibility of fine or imprint	of Environmental Protection. I understand that the ition of the general permit and/or other applicable in familiar with the information submitted on this of those individuals immediately responsible for complete. I am aware that there are significant isonment.
Company Official Signature Diane White	Office of Oil and Gas
Company Official (Typed Name) Diane White	FEB 0-8 2021
Company Official Title Agent	WV Department of Environmental Protection
Subscribed and sworn before me this 21st day of January	, 20 21
My commission expires 4/26/2025	Notary Fubia: OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Timothy P Roush 5260 Dupont Road, Parkersburg, W 28101

4703306006

Operator's Well No. Schoen 1205 S-9H

	nent: Acres Disturbed 29.465	Prevegetation pl	
Lime	3 Tons/acre or to correct to pH	6.5	
Fertilizer type10-2	20-20		
Fertilizer amount	500 _{lbs/}	acre	
Mulch_ Hay	2 Tons/ac	re	
	Seed	<u>Mixtures</u>	
Ten	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit approvided). If water from the pacreage, of the land application Photocopied section of involvements.	it will be land applied, include dim n area.	tion (unless engineered plans includensions (L x W x D) of the pit, and	ding this info have be d dimensions (L x W
Maps(s) of road, location, pits provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/r	it will be land applied, include dim n area. ed 7.5' topographic sheet. Lug Llely nulch as soon as rea	ensions (L x W x D) of the pit, and	I dimensions (L x W
Maps(s) of road, location, pits provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/r	it will be land applied, include dim n area. ed 7.5' topographic sheet.	ensions (L x W x D) of the pit, and	I dimensions (L x W)
Maps(s) of road, location, pits provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/r	it will be land applied, include dim n area. ed 7.5' topographic sheet. Lug Llely nulch as soon as rea	ensions (L x W x D) of the pit, and	I dimensions (L x W)
Maps(s) of road, location, pits provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/r	it will be land applied, include dim n area. ed 7.5' topographic sheet. Lug Llely nulch as soon as rea	ensions (L x W x D) of the pit, and	I dimensions (L x W)
Maps(s) of road, location, pits provided). If water from the pacreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/r	it will be land applied, include dim n area. ed 7.5' topographic sheet. Lug Llug mulch as soon as rea eeded per WV DEP E	ensions (L x W x D) of the pit, and	I dimensions (L x W

FEB 0 8 2021

WV Department of Environmer 08726/2021

4703306006

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

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

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

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

Disposal Locations:

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

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

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

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071, 233 Max Lane
Yukon, PA 25968
724-722-3500

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

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

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

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

Waste Management Meadowfill Permit # 1032 1.488 Dawson Drive Bridgeport, WV 26330

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

FEB **0 8** 2021

WV Department of Environmental Protection

03/26/2021

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

Energy Solutions, LLC Permit # UT 2800249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

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

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

Disposal Locations:

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

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

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

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

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

Equipment Transport 1 Tyler Court Carlisle, PA 17015

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

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

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

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

Kemble 1-D Well Permit # 8780 7675 East Pike Norwich, Oh 43767 614-648-8898 740-796-6495 RECEIVED
Office of Oil and Gas

FEB 08 2021

Physican englisher Parker Park

03/26/2021

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

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

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

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Corappolis, PA 15108 412-329-7275

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

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

4703306005

OH UIC #1 Bu keya UIC Barnesville 1 & 2 CNX Gas Com. any, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

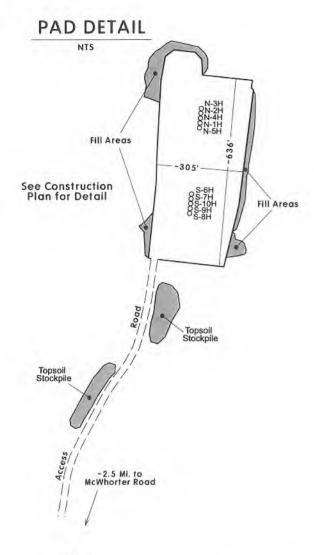
Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4197-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

03/26/2021

RECEIVED Office of Oil and Gas

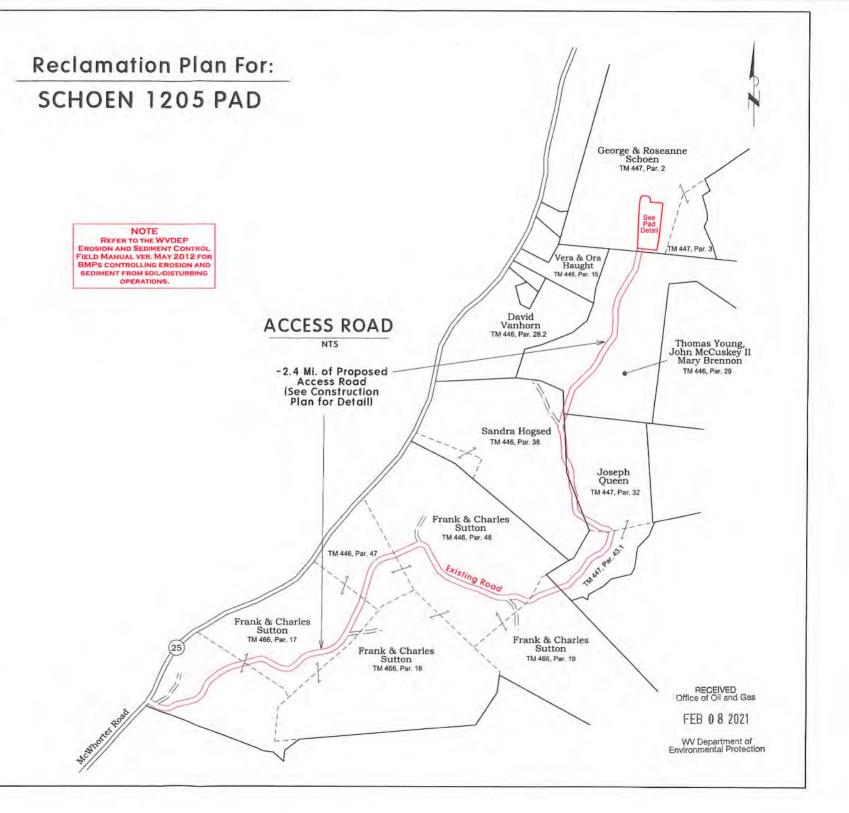
FEB 08 2021

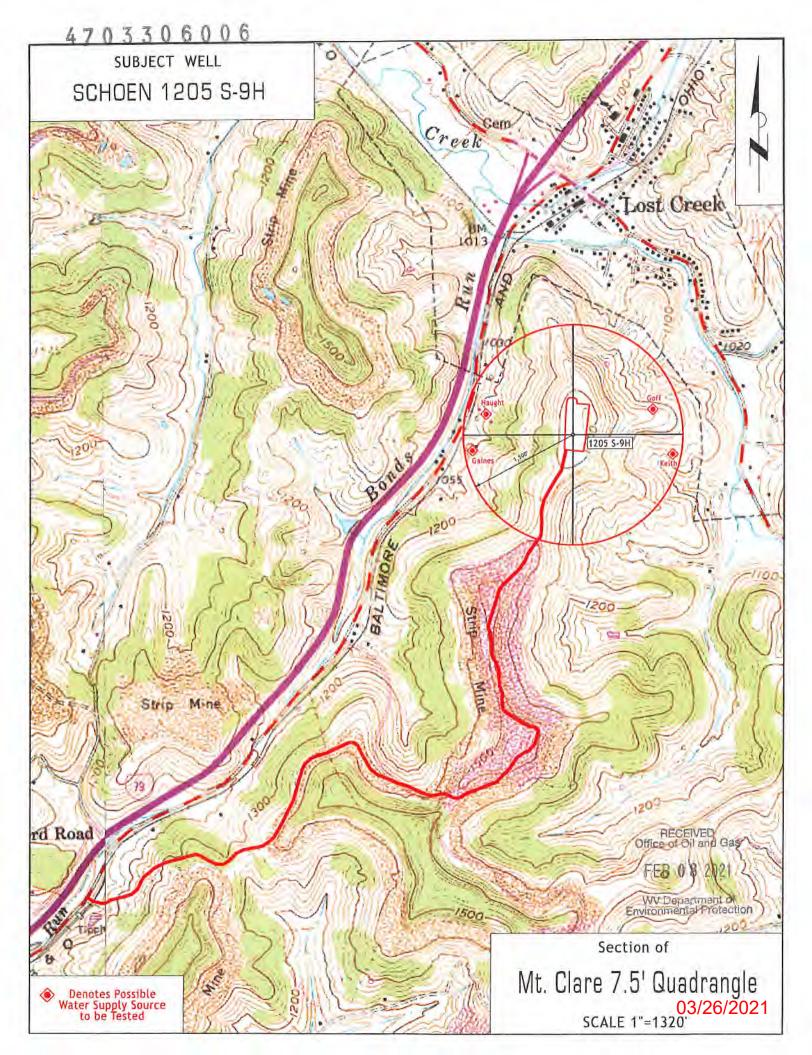
WV Department of Environmental Protection



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.





HG Energy II Appalachia, LLC

Site Safety Plan

RECEIVED
Office of Oil and Gas

FEB 08 2021

Schoen 1205 Well Pad

WV Department of Environmental Protection

1279 Sutton Farm Rd Lost Creek Harrison County, WV 26385

August 2020: Version 1

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

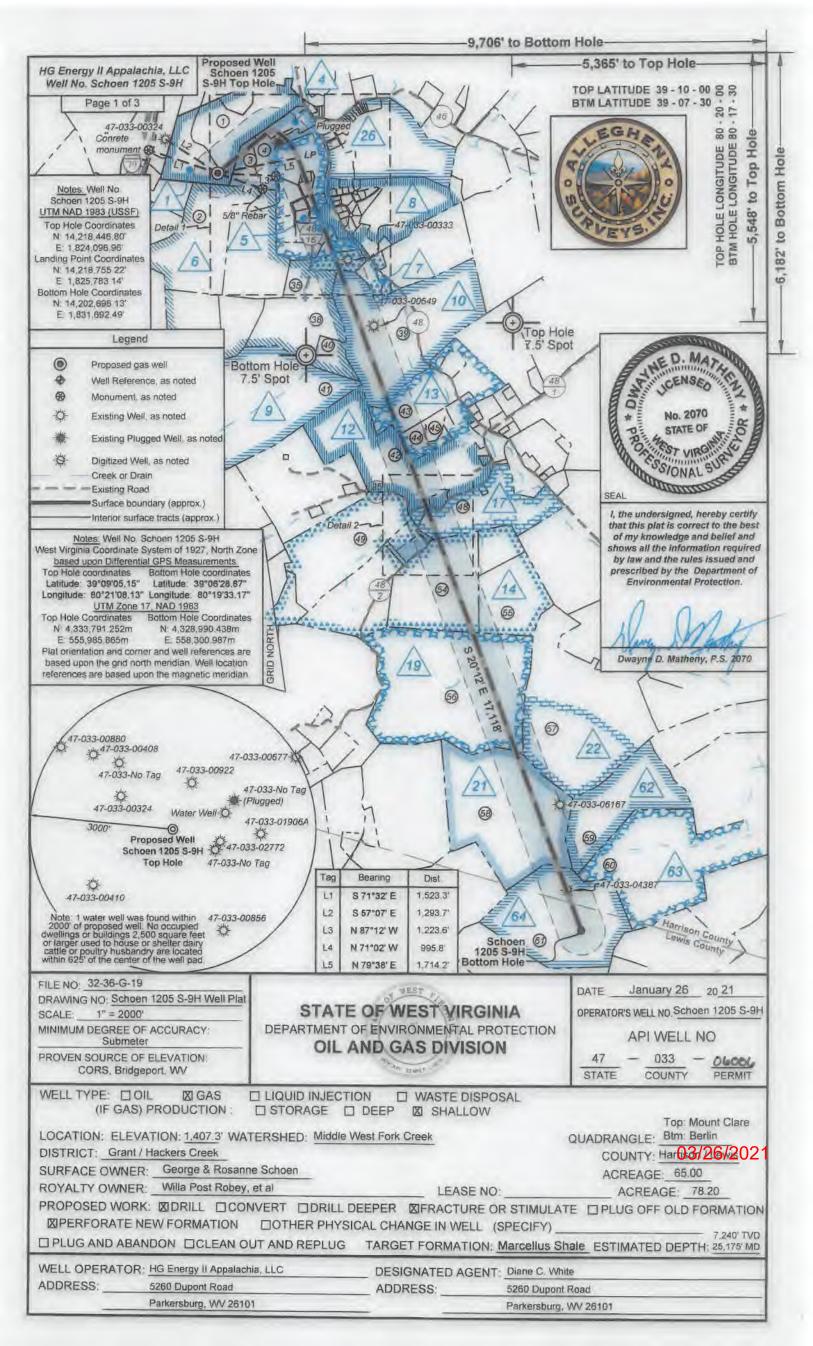
HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

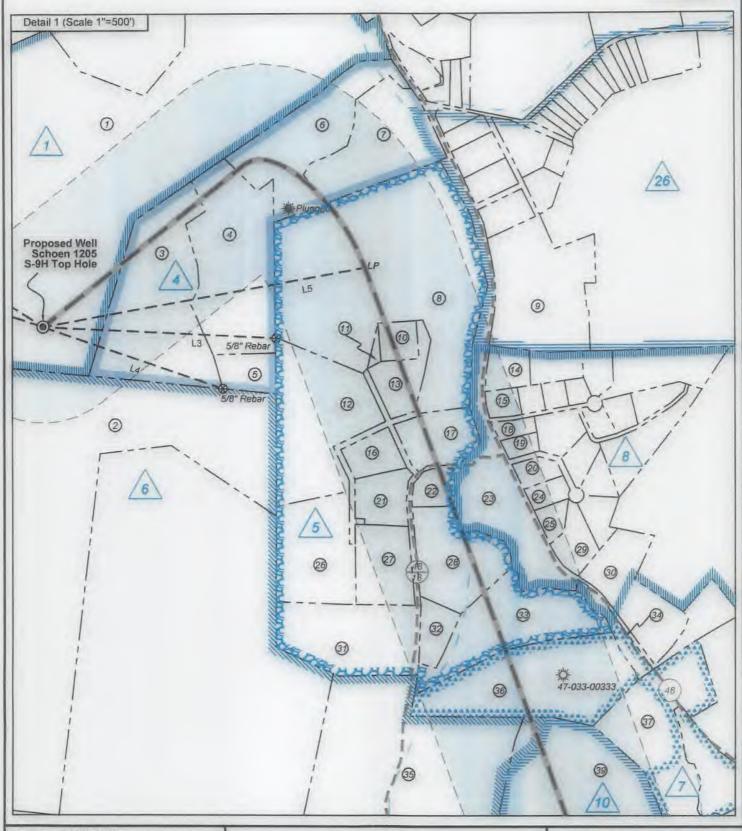
5000 de 7/200

B.S. 2-2-21



Page 2 of 3





FILE NO: 32-36-G-19 DRAWING NO: Schoen 1205 S-9H Well Plat SCALE: 1" = 2000" MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

January 26 20 21 DATE: OPERATOR'S WELL NO. Schoen 1205 S-9H

API WELL NO

RMIT

1	47	-	033	-	06
	STATE		COUNTY		PE

Parkersburg, WV 26101

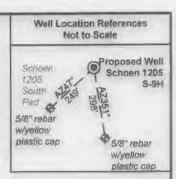
WELL TYPE: OI (IF GAS)	PRODUCTION: STORAGE		Top: Mount Clare
DISTRICT: Grant /		est Fork Creek	QUADRANGLE: Btm: Berlin COUNTY: Har 03/26/2021
	George & Rosanne Schoen Willa Post Robey, et al	LEASE NO.	ACREAGE: 65.00 ACREAGE: 78.20
PROPOSED WORK	: ☑DRILL ☐CONVERT ☐DRILL DE EW FORMATION ☐OTHER PHYSIC	EEPER SFRACTURE OF CAL CHANGE IN WELL (S	STIMULATE PLUG OFF OLD FORMATION
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

HG Energy II Appalachia, LLC Well No. Schoen 1205 S-9H

Page 3 of 3

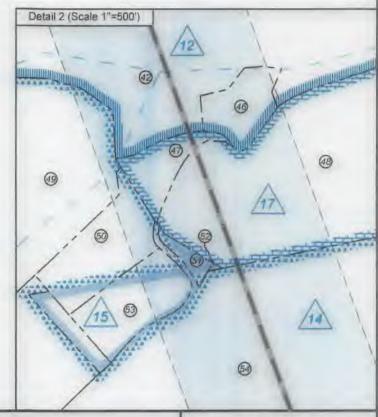






		Harrison County		
No.	TM / Par	Owner	Bk/Pg	Ac.
1	447/2	George & Rosanne Schoen	1148 / 1059	65.00
2	446 / 29	Thomas K. Young , et al	1121 / 25	75.00
3	447/3	George and Rosanne Schoen	1253 / 302	10.06
4	447 / 3.4	Stephen M & Kimberly Goff	1257/189	7.67
5	447 / 3.5	Charlotte Gerlach	1288/503	1.35
6	447 / 3.3	Charlotte C. Gerlach	1070/1041	6.10
7	447 / 3.2	Michael Tillman & Mary Hencke	1257/193	5.86
8	447 / 4.11	Joseph & Karen Bowers	1295/887	21.87
9	447 / 6.1	Michael & Charlotte Moses	1364/7	7.20
10	447 / 4.10	John Breen LACO	1512/1161	0.92
11	447 / 4.12	John Breen LACO	1512/1161	0.17
12	447 / 4.1	H. Keith & Diana L. Bramel	1438/63	7.46
13	447 / 4.7	John Breen	1512/1161	2.20
14	447 / 5.25	Kenneth & Twyla Snoops	1440/70	1.09
15	447 / 5.12	Jeffrey & Diana Rogers	1553/872	0.57
16	447 / 4.8	Joseph C. Queen	1231/172	1.18
17	447 / 4.4	Danny Lee Hess	1264/1228	3.00
18	447 / 5.18	James D. & Joanie L. Oliverio	1542/1102	0.40
19	447 / 5.1	Sheri L. Smith	1537/668	0.42
20	447 / 5.14	Joshua S. Runyon	1498/815	0.64
21	447 / 4.3	Grzechowski T & Jerusha A. Adler	1473/697	
22	447 / 4.8	Melinda J. & Michael R. Bush	1294/171	1.69
	447 / 5.3	Town of Lost Creek		0.85
23	447 / 5.19		G 63/401	2.50
24	447 / 5.19	Delani & Linda Coffman	1325/840	0.63
25	447 / 5.13	Delano & Linda Coffman	1359/713	0.56
26	447 / 4.13	Richard & Janet Sprout	1389/669	5.04
27	447/4.5	Eric A. Davis, et al	1598/531	2.85
28	447/4.9	Melinda Bush	1569/158	4.20
29	447 / 5.7	Jennifer Donnellan	1438/453	1.19
30	447 / 26.1	Russell A. Snyder	1425/1332	2.01
31	447 / 21	Richard & Rebecca Sprout	1600/849	6.09
32	447/4.2	Gail & Howard Marsh	1410/1058	1.04
33	447/4	Gene & Carol Kennedy	1101/303	5.83
34	447 / 23.3	Russell A Snyder	1585/356	0.72
35	447 / 22	Daniel & Stacie Cooley	1310/1072	16.59
36	447 / 23.2	Donna Greaver	1585/708	8.35
37	447 / 24	Franklin Jr. & Elizabeth Wheeler	1585/108	5.26
38	447/34	Sharon K. & Patsy J. Salate	1360/84	43.00
39	447 / 36	Debra J. Bedell	1291/931	82.38
40	447 / 35	Kenneth Maxwell & Patricia Myers	1311/423	11.67
41	447 / 43	Isaac & Betty Maxwell	1543/141	123.9
42	467/2	Jackson L. Smith	1378 / 976	95.16
43	447 / 44.1	Debra J. Bedell	1291/931	30.37
44	447 / 44	Roddy & Tracy L. Ash	1332/493	15.21
45	447 / 44.4	Michael W. & Tracy L. Ash	1359/139	4.79
46	467 / 2.2	Ronald J. Singer	1395 / 600	2.65
47	467 / 31	Eugene Hanby	1237 / 23	2.50
48	467 / 20	Steven G. & Juila A. Randolph	1321 / 1151	54.64
49	467 / 30	William L. Randolph, et ux	1518 / 19	73.73
50	467 / 33.1	Eugene W. Hanby	1428 / 1	4.76
51	467 / 32	Clara Ellen Wentz	/	0.58
52	467 / 32 1	Joseph M. Richards	1439 / 1234	0.04
53	467 / 32.3	Joseph M. Richards	1485 / 706	4.15
54	467 / 38	Joseph M. Richards	1439 / 1234	73.93
55	467 / 36.1	Gary W. & Kathy Hanby	1153 / 965	45.00
		David L. & Lisle C. Hinkle		
56	467 / 52	George W Dawson, et ux	1282 / 389	175.5
57	467 / 53	Kimberly & Terri Glaze Wriston	1418 / 331	158.5
58	487 / 5		W 83 / 97	129.6
59	487 / 6	Clayton W. Rice	1563 / 252	70.33
60	487/8	Wayne R Lewis	1616 / 1241	134.6
		Lewis County		
31	10C / 16	Terri Smith Glaze	W 34/428	105.0

D	Lease
3	A.B. Post et al
4	Charlotte C Gerlach
5	Franch S. Young, et al.
6	Susan V Curry & Ida M. Curry
7	Mary Alkine, et al
B	LE ASJ Davis
0	L.D. & Addie Swisher
10	Lewis C. & Alma Swisher
12	Franch S. Young, et al
13	Lewis G. & Alma Swisher
14	M.M.F. & S.F. Randolph
15	Raymond D. & Gertie H. Lewis
17	Mary Holbert Ellyson, et vir et al.
19	Signey & Virginis Haymond
21	Patricia D. Smith, et al.
22	Meivina E. Cookman
26	Million S. Davis, et al
62	Kale Stour
63	C. Ross Lewis, et the et al
64	Melvina E. Cookman



FILE NO: 32-36-G-19

DRAWING NO: Schoen 1205 S-9H Well Plat

1" = 2000" SCALE:

MINIMUM DEGREE OF ACCURACY:

Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

January 26 20 21 OPERATOR'S WELL NO. Schoen 1205 S-9H API WELL NO

033 COUNTY STATE

06006

WELL TYPE: DOIL X GAS (IF GAS) PRODUCTION:

☐ LIQUID INJECTION ☐ WASTE DISPOSAL ☐ STORAGE ☐ DEEP ☒ SHALLOW

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

DISTRICT: Grant / Hackers Creek

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO:

QUADRANGLE: Btm: Berlin COUNTY: Har 03/26/202

Top: Mount Clare

ACREAGE: 65.00 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)

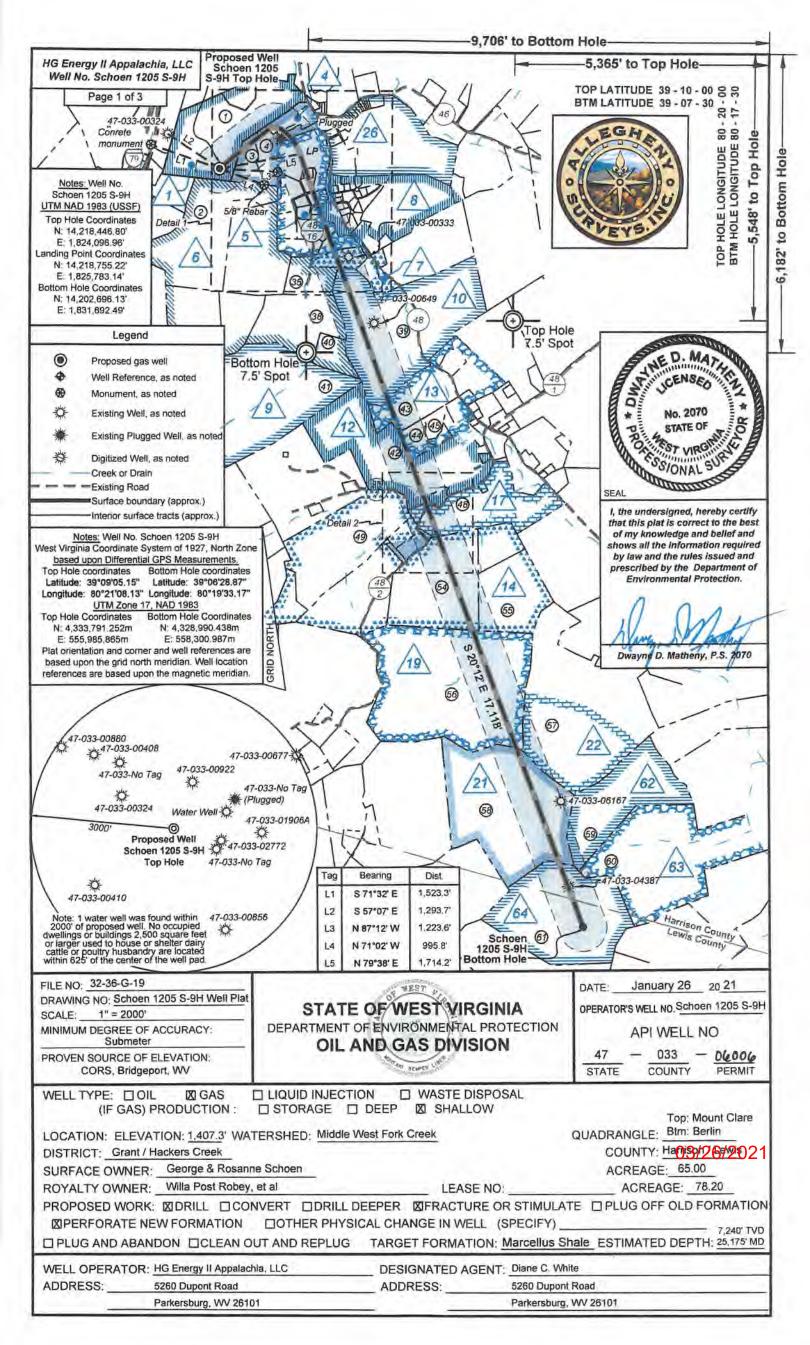
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,175' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road DESIGNATED AGENT: Diane C. White

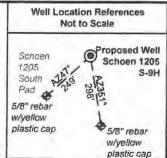
ADDRESS: 5260 Dupont Road Parkersburg, WV 26101



Page 3 of 3

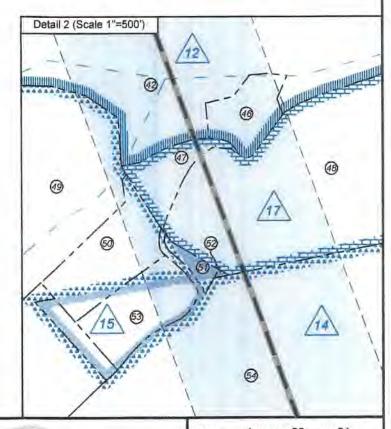






		Harrison County		
Vo.	TM / Par	Owner	Bk / Pg	Ac.
1	447/2	George & Rosanne Schoen	1148 / 1059	65.00
2	446 / 29	Thomas K. Young , et al	1121 / 25	75.00
3	447/3	George and Rosanne Schoen	1253 / 302	10.06
4	447 / 3,4	Stephen M & Kimberly Goff	1257/189	7.67
5	447 / 3.5	Charlotte Gerlach	1288/503	1.35
6	447 / 3.3	Charlotte C. Gerlach	1070/1041	6.10
7	447 / 3.2	Michael Tillman & Mary Hencke	1257/193	5.86
8	447 / 4.11	Joseph & Karen Bowers	1295/887	21.87
9	447 / 6.1	Michael & Charlotte Moses	1364/7	7.20
10	447 / 4.10	John Breen LACO	1512/1161	0.92
11	447 / 4.12	John Breen LACO	1512/1161	0.17
12	447 / 4.1	H. Keith & Diana L. Bramel	1438/63	7.46
13	447 / 4.7	John Breen	1512/1161	2.20
14	447 / 5.25	Kenneth & Twyla Snoops	1440/70	1.09
15	447 / 5.12	Jeffrey & Diana Rogers	1553/872	0.57
		Joseph C. Queen		
16	447 / 4.8	Danny Lee Hess	1231/172	1.18
_	447 / 4.4		1264/1228	3.00
18	447 / 5.18	James D. & Joanie L. Oliverio	1542/1102	0.40
19	447 / 5.1	Sheri L. Smith	1537/668	0.42
20	447 / 5.14	Joshua S. Runyon	1498/815	0.64
21	447 / 4.3	Grzechowski T. & Jerusha A. Adler	1473/697	1.69
22	447 / 4.6	Melinda J. & Michael R. Bush	1294/171	0.85
23	447 / 5.3	Town of Lost Creek	G 63/401	2.50
24	447 / 5.19	Delani & Linda Coffman	1325/840	0.63
25	447 / 5.13	Delano & Linda Coffman	1359/713	0.56
26	447 / 4.13	Richard & Janet Sprout	1389/669	5.04
27	447 / 4.5	Eric A. Davis, et al	1598/531	2,85
28	447 / 4.9	Melinda Bush	1569/158	4.20
29	447 / 5.7	Jennifer Donnellan	1438/453	1.19
30	447 / 26.1	Russell A. Snyder	1425/1332	2.01
31	447 / 21	Richard & Rebecca Sprout	1600/849	6.09
32	447 / 4.2	Gail & Howard Marsh	1410/1058	1.04
33	447/4	Gene & Carol Kennedy	1101/303	5.83
34	447 / 23.3	Russell A. Snyder	1585/356	0.72
35	447 / 22	Daniel & Stacie Cooley	1310/1072	16.59
36	447 / 23.2	Donna Greaver	1585/708	8,35
37	447 / 24	Franklin Jr. & Elizabeth Wheeler	1585/108	5.26
38	447 / 34	Sharon K. & Patsy J. Salate	1360/84	43.00
39	447 / 36	Debra J. Bedell	1291/931	82.38
40	447 / 35	Kenneth Maxwell & Patricia Myers	1311/423	11.67
41	447 / 43	Isaac & Betty Maxwell	1543/141	123.9
42	467/2	Jackson L. Smith	1378 / 976	95.16
43	447 / 44.1	Debra J. Bedell	1291/931	30.37
44	447 / 44	Roddy & Tracy L. Ash	1332/493	15.21
45	447 / 44.4	Michael W. & Tracy L. Ash	1359/139	4.79
46	467 / 2.2	Ronald J. Singer	1395 / 600	2.65
47	467 / 31	Eugene Hanby	1237 / 23	2.50
48	467 / 20	Steven G. & Juila A. Randolph	1321 / 1151	54.64
49	467 / 30	William L. Randolph, et ux	1518 / 19	73.73
50	467 / 33.1	Eugene W. Hanby	1428 / 1	4.76
51	467 / 32	Clara Ellen Wentz	/	0.58
52		Joseph M. Richards	1439 / 1234	0.04
53	467 / 32.3	Joseph M. Richards	1485 / 706	4.15
	467 / 36	Joseph M. Richards	1439 / 1234	73,93
54		Gary W. & Kathy Hanby	1153 / 965	45.00
55	467 / 36.1			
56	467 / 52	David L. & Lisle C. Hinkle George W Dawson, et ux	1282 / 389	175.5
57	467 / 53		1418 / 331	158.5
58	487 / 5	Kimberly & Terri Glaze Wriston Clayton W. Rice	W 83 / 97	129.6
59	487/6		1563 / 252	70.33
60	487 / 8	Wayne R. Lewis	1616 / 1241	134.6
_		Lewis County		

D	Lease
1	A.B. Post, et al
4	Charlotte C Gerlach
5	French S. Young, et al.
6	Susan V. Curry & Ida M. Curry
7	Mary Alkire, et al
8	L.B. & S.J. Davis
9	L.D. & Addie Swisher
10	Lewis C. & Alma Swisher
12	French S. Young et al
13	Lewis C. & Alma Swisher
14	M.M.F. & S.F. Randolph
15	Raymond D. & Gertie H. Lewis
17	Mary Holbert Ellyson, et vir, et al
19	Sidney & Virginia Haymond
21	Patricia B. Smith, et al
22	Metvina E. Cookman
26	Milton S. Davis, et al
62	Kate Stout
63	C. Ross Lewis, et ux, et al
54	Melvina E. Cookman



FILE NO: 32-36-G-19

DRAWING NO: Schoen 1205 S-9H Well Plat
SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

X GAS

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

WELL TYPE: OIL

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

☐ WASTE DISPOSAL

(IF GAS) PRODUCTION: LOCATION: ELEVATION: 1,407.3' W			Top: Mount Clare UADRANGLE: Btm: Berlin
DISTRICT: Grant / Hackers Creek			COUNTY: Har09/12/6/12021
SURFACE OWNER: George & Rosa	nne Schoen		ACREAGE: 65.00
ROYALTY OWNER: Willa Post Robe	ey, et al	LEASE NO:	ACREAGE: 78.20
PROPOSED WORK: DRILL C	ONVERT DRILL DEEPER	☑FRACTURE OR STIMULATE	☐ PLUG OFF OLD FORMATION
☑PERFORATE NEW FORMATION	□OTHER PHYSICAL CH	ANGE IN WELL (SPECIFY)	7.240' TVD
☐ PLUG AND ABANDON ☐ CLEAN	OUT AND REPLUG TARG	ET FORMATION: Marcellus Shal	

☐ LIQUID INJECTION

WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White

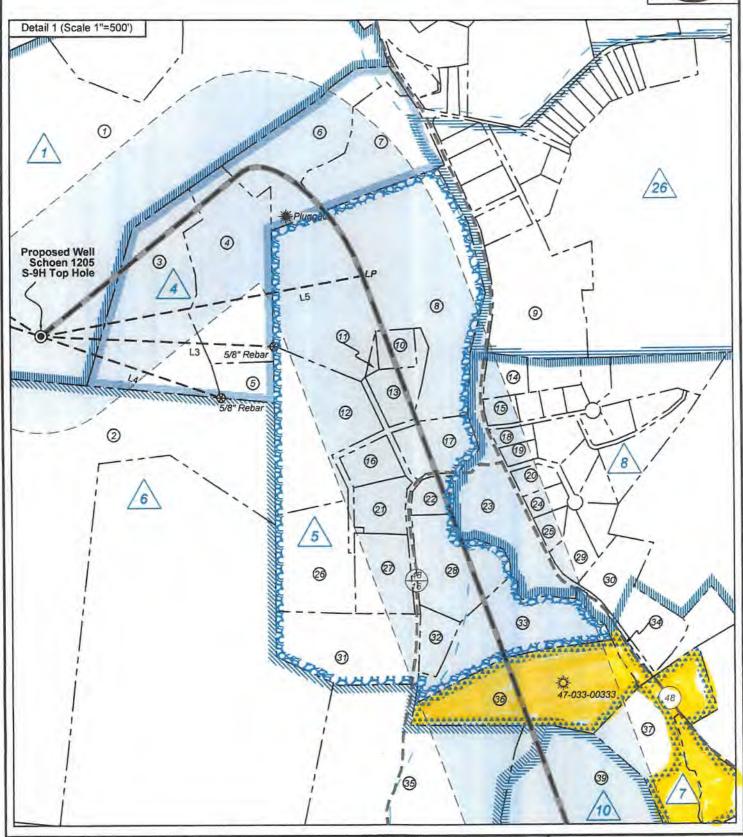
ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

HG Energy II Appalachia, LLC Well No. Schoen 1205 S-9H

Page 2 of 3





FILE NO: 32-36-G-19 January 26 20 21 DATE: DRAWING NO: Schoen 1205 S-9H Well Plat STATE OF WEST VIRGINIA OPERATOR'S WELL NO. Schoen 1205 S-9H SCALE: 1" = 2000" DEPARTMENT OF ENVIRONMENTAL PROTECTION MINIMUM DEGREE OF ACCURACY: API WELL NO Submeter OIL AND GAS DIVISION 033 47 06006 PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV STATE COUNTY PERMIT ☐ WASTE DISPOSAL ☐ LIQUID INJECTION WELL TYPE: OIL X GAS ☐ STORAGE ☐ DEEP (IF GAS) PRODUCTION: ☑ SHALLOW Top: Mount Clare QUADRANGLE: Btm: Berlin LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek COUNTY: Ha 0 3 / 26 / 2021 DISTRICT: Grant / Hackers Creek ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

EXPERFORATE NEW FORMATION DOTHER PHYSICAL CHANGE IN WELL (SPECIFY)

 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-9H

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

RECEIVED
Office of Oil and Gas

FEB 08 2021

WV Department of Environmental Protection

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

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

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

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

Well Operator: HG Energy II Appalachia, LLC

By: Diane White Diane White

Its: Accountant

Page 1 of ____

WW-6A1
(5/13)

Operator's	Well No.	Schoen	1205 S-9H

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 -

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

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

See Attached Sheets

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

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

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

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

Well Operator: HG Energy II Appalachia, LLC

By: Diane White Diane White

Its: Accountant

Page 1 of ____

RECEIVED
Office of Oil and Gas

MAR 18 2021

WV Department of Environmental Protection RECEIVED
RECEIVED
Office of Oil and Gas
MAR 1 8 2021
MAR 1 8 2021
WAY Department of
Environmental Protection

HG Energy II Apalachia, LLC 1205 S-9H Lease Chain

								
					1			
	LEGACY LEASE							
1205W-S	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAG
		· · · · · · · · · · · · · · · · · · ·	1	A. B. POST, WIDOWER; P. S. ROBEY AND WILLA ROBEY, EACH IN HIS				
	1		}	OWN RIGHT AS HUSBAND AND WIFE; ELLA LOUISE MAXWELL AND			1 1	
				ISAAC H. MAXWELL, HER HUSBAND; FRANCES AND GEORGE B.			i l	
	1			VIEWEG, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	900	
	1 1		1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
	l			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
	1			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
	1			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	
	i i			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
	LC074399	12-0447-0001-0000	Q100514000			FIRST AMENDMENT TO MEMORANDUM OF		l
1	100/4399	12-0447-0002-0000	Q100514000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	ļ
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	<u> </u>
			I	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
	1		l .	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	<u> </u>
			ì	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	L
			İ			THIRD AMENDMENT TO MEMORANDUM OF		l
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	
		12-0447-0003-0000 12-0447-0003-0004		GERLACH, JOHN h. & CHARLOTTE C. GERLACH, HIS WIFE	JACKSON L. SMITH, D/B/A WEST VIRGINIA ENERGIES	NOT LESS THAN 1/8	1108	
4	ANTERO-5	12-0447-0003-0005	ANTERO-5	JACKSON L. SMITH, D/B/A WEST VIRGINIA ENERGIES	BERRY ENERGY CONSULTANTS & MANAGERS INC	ASSIGNMENT	1140	L
•		12-0447-0003-0003		BERRY ENERGY CONSULTANTS & MANAGERS INC	J & J ENTERPRISES, INC	ASSIGNMENT	1110	L
		12-0447-0003-0002		J & J ENTERPRISES, INC	EASTERN AMERICAN ENERGY CORPORATION	MERGER/NAME CHANGE	200	
				EASTERN AMERICAN ENERGY CORPORATION	ENERGY CORPORATION OF AMERICA	MERGER/NAME CHANGE	59	
				ENERGY CORPORATION OF AMERICA	ANTERO RESOURCES CORPORATION	ASSIGNMENT	1603	
			1	ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1671	
				FRENCH S. YOUNG AND ANNA J. YOUNG	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	147	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	
		12-447-0004-0001	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	5
	1	12-447-0004-0002		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	1
		12-447-0004-0003	į.	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	3
	1	12-447-0004-0004	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	2
	1	12-447-0004-0005		COMMISSION (INTERNATIONAL COMMISSION COMMISS		FIRST AMENDMENT TO MEMORANDUM OF		T
		12-447-0004-0006		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1524	1
		12-447-0004-0007	Q100923000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	3
5	LC004920	12-447-0004-0008	LC098171 FEE	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	5
		12-447-0004-0009		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	4
		12-447-0004-0010		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	ol
		12-447-0004-0011	1		DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	1	12-447-0004-0012	1	DOMINION TRANSMISSION, INC.	DOMINION ENERGY HOMESHOSSON, INC.	SECOND AMENDMENT TO MEMORANDUM OF	1	1
		12-447-0004-0013 12-447-0021-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	160:	1

12-447-0023-0000 DOMINION ENERGY TRANSMISSION, INC. HIG ENERGY II APPALACHIA, LLC ASSIGNMENT (68%) LE MARY ALIRE, WIDOW, R. M. MCWHORTER AND MARY JANE MCWHORTER, AND MARTHA SAELER AND GILBERT L. SAELER, HER HUSBAND HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION MERGER/NAME CHANGE CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION MERGER/NAME CHANGE CONSOLIDATED GAS SUPPLY CORPORATION MERGER/NAME CHANGE DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE CNX GAS COMPANY LLC MOBILE ENERGY, INC. DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE DOMINION	1621 LEWIS 736 7777 903 1136 51 58 1522 1543 1576 1584 1600 WSOS	12 2 3 1 2 7 3
DOMINION ENERGY TRANSMISSION, INC. MARY ALKIRE, WIDOW, R. M. McWHORTER AND MARY JANE MCWHORTER, HIS WIFE, AND MARTHA SAELER AND GILBERT L. SAELER, HER HUSBAND HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION MERGER/NAME CHANGE CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION MERGER/NAME CHANGE CIG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE CING TRANSMISSION, INC. CING TRANSMISSION, INC. MERGER/NAME CHANGE CING TRANSMISSION, INC. MERGER/NAME CHANGE CING TRANSMISSION, INC. CONSOLIDATED GAS SUPPLY CORPORATION	777 903 1136 51 58 1522 1543 1576 1584 1600	3 1 2 7 3
MARY ALKIRE, WIDOW, R. M. MCWHORTER AND MARY JANE MCWHORTER, HIS WIFE; AND MARTHA SAELER AND GILBERT L. SAELER, HER HUSBAND HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS SUPPLY CORPORATION ASSIGNMENT CONSOLIDATED GAS TRANSMISSION CORPORATION MERGER/NAME CHANGE CONSOLIDATED GAS TRANSMISSION CORPORATION MERGER/NAME CHANGE DOMINION TRANSMISSION, INC. CNG TRANSMISSION, INC. MERGER/NAME CHANGE DOMINION TRANSMISSION, INC. CNK GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT CNK GAS COMPANY LLC MOBILE ENERGY, INC. MOBILE ENERGY, INC. MERGER/NAME CHANGE DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE MCWHORT AND TRANSMISSION CORPORATION MERGER/NAME	903 1136 51 58 1522 1543 1576 1584 1600	1 2 7 3
MCWHORTER, HIS WIFE; AND MARTHA SAELER AND GILBERT L. SAELER, HER HUSBAND HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONFIRMATORY DEED 12-0447-0023-0000 12-0447-0023-0001 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 p/o 12-04	903 1136 51 58 1522 1543 1576 1584 1600	1 2 7 3
SAELER, HER HUSBAND HOPE NATURAL GAS COMPANY NOT LESS THAN 1/8 HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSIGNMENT CONSOLIDATED GAS TRANSMISSION CORPORATION MERGER/NAME CHANGE 12-0447-0023-0001 12-0447-0023-0002 12-0447-0023-0003 p/o 12-0447-0023-0003 p/o 12-0447-0023-0000 12-0447-0023-0000 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM PARMOUT AGREEMENT CNS GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%) CNX GAS COMPANY LLC NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%) DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%) DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC ASSIGNMENT DOMINION TRANSMISSION, INC. HIG ENERGY II APPALACHIA, LLC ASSIGNMENT DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. FARMOUT AGREEMENT DOMINION TRANSMISSION, INC. HIG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT DOMINION TRANSMISSION, INC. HIG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT DOMINION TRANSMISSION, INC. HIG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	903 1136 51 58 1522 1543 1576 1584 1600	1 2 7 3
12-0447-0023-0000 12-0447-0023	1136 51 58 1522 1543 1576 1584 1600	2 7 3
TOUR CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSIGNMENT 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 p/o 12-0447-0023-00000 p/o 12-0447-0023-0000 p/o 12-0447-0023-0000 p/o 12-0447-0023-0000 p/o 12-0447-0023-0000 p/o 12-0447-0023-0000 p/o 12-0447-0023	1136 51 58 1522 1543 1576 1584 1600	2 7 3
12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 p/o 12-0447-0024-0000 p/	51 58 1522 1543 1576 1584 1600	7 3 12
12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 12-0447-0023-0000 p/o 12-0447-0024-0000 p/o 12-0447-00	58 1522 1543 1576 1584 1600	12
12-0447-0023-0001 12-0447-0023-0002 12-0447-0023-0003 p/o 12-0447-0024-0000 p/o 12-0447-	1522 1543 1576 1584 1600	12
7 LC066701 12-0447-0023-0002 12-0447-0023-0003 p/o 12-0447-0024-0000 PEEHGII0041 CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%) CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT DOMINION TRANSMISSION, INC. DOMINION ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	1543 1576 1584 1600	12
7 LC066701 12-0447-0023-0003 p/o 12-0447-0023-0003 p/o 12-0447-0024-0000 P/o 12-0447-0024-0000 FEEHGII0041 FEEHGII	1576 1584 1600	
DOMINION TRANSMISSION, INC. CIX GAS COMPANY LC NOBLE ENERGY, INC. P/O 12-0447-0024-0000 CIX GAS COMPANY LC NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	1584 1600	1
NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/RAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	1600	9
DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT		
SECOND AMENDMENT TO MEMORANDUM OF DOMINION ENERGY TRANSMISSION, INC. HIG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT		
DOMINION ENERGY TRANSMISSION, INC. HIG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	** V3U3	
THIRD AMENDMENT TO MEMOKANDOM OF A	1601	5
	1631	17
DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	1621	
13-0447-0005-0000	أبده	1
13-0447-0005-0001 L. B. DAVIS AND S. J. DAVIS, HIS WIFE SOUTH PENN OIL COMPANY NOT LESS THAN 1/8 13-0447-0005-0003 L. B. DAVIS AND S. J. DAVIS, HIS WIFE SOUTH PENN OIL COMPANY NOT LESS THAN 1/8 13-0447-0005-0001	121	
13-0447-0005-0004 SOUTH PENN DIL COMPANY HOPE NATURAL GRS COMPANY ASSIGNMENT	204	
13-0447-0005-0006 HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONFIRMATORY DEED	903	
13-0447-0005-0007 CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSIGNMENT	1136	
13-0447-0005-0008 CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION MERGER/NAME CHANGE	51	
13-047-0005-0010 CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. MERGER/NAME CHANGE	58	
13-0497-0005-0011 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC MEMORANDUM FARMOUT AGREEMENT	1522	
13-0447-0005-0012 FIRST AMENDMENT TO MEMORANDUM OF	l l	
8 LC008512 13-0447-0005-0013 13-0447-0005-0013 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC FARMOUT AGREEMENT	1524	
6 LCU06312 I3-047-0005-0015 CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%)	1543	17
13-0447-0005-0016 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	
13-04-7-0005-0021 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	
13-047-0005-0026		
p/o 12-0447-0023-0031		
P/o 12-0407-0027-0000 DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	1621	1
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	
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	
CNX GAS COMPANY LLC NOBLE ENERGY, INC. LIMITED PARTIAL ASSIGNMENT (50%)	1543	1
DOMINION TRANSMISSION, INC. CINK GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%) 12-0447-0036-0000 DOMINION TRANSMISSION, INC. CINK GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%) CINK GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%)	1576	
10 LC078281 0/2 13 0447 0026 0001 Q100950000 LNX GAS COMPANY LLC NOBLE ENERGY, INC. ASSIGNMENT	1584	
p/o 12-0447-0036-0001 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		i
DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT	1601	

4703306006

				1		THIRD AMENDMENT TO MEMORANDUM OF		
				DOLUMENT SUFFACY TO A VISA VISCONI INC	HC TAITECY II ADDALACHIA LLC	FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	ASSIGNMENT 968%)	1637	1081
				DOMINION ENERGY TRANSMISSION, INC.			808	416
	1	1		FRENCH S. YOUNG AND ANNA J. YOUNG, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	903	179
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	1136	25
	l			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		79
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51 58	36
	1			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		30
	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	3:
						FIRST AMENDMENT TO MEMORANDUM OF		
12	1	12-0467-0002-0000	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49
	LC068012	12-0467-0002-0001	Q100847000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	123
		12-0467-0002-0002		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	12
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
	l i			DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF	i i	
13						FARMOUT AGREEMENT	1601	58
						THIRD AMENDMENT TO MEMORANDUM OF	1	
	1		1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
				LEWIS C. SWISHER AND ALMA SWISHER, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	955	38
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	25
	LC078282	12-0447-0044-0000 12-0447-0044-0001 12-0447-0044-0002 12-0447-0044-0003 12-0447-0044-0004	Q100408000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	79
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	36
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	
				DOMINION TRANSMONY INC.		FIRST AMENDMENT TO MEMORANDUM OF		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FARMOUT AGREEMENT	1524	49
				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	12
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	94
		12-0447-0044-000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	69
		12-0447-0051-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wysos	
		p/o 12-0447-0036-0001		DOWNTON TRANSPOSION, INC.	DOMENTON ENERGY TRANSPIREDUCTO, INC.	SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	51
						THIRD AMENDMENT TO MEMORANDUM OF		
				DOMESTICAL PRICECULAR AND AND SANGERON INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	129
				DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	LEWIS 736	2
				. I		NOT LESS THAN 1/8	152	26
14				M.M.F. RANDOLPH AND S. F. RANDOLPH, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	903	1
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION		1136	
	l	12-0467-0030-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT CHANGE	51	7
	1	12-0467-0030-0001		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	58	
		p/o 12-0467-0032-0003		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	1522	
		12-0467-033-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	17
	LC005043	p/o 12-0467-0033-0001 12-0467-0034-0000 12-0467-0035-0000	Q100542000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	
		12-0467-0036-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
		12-0467-0036-0001 p/o 12-467-0032-0000				SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	
	ł					THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1
	 			SAM B. BAKER III AND CARIOLE M. BAKER	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	1092	
	1	1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	

	7							
	ction	I		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
	_			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
	į			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
16	LC090192	12-0467-0031-0000	Q100723000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	ŀ	į				SECOND AMENDMENT TO MEMORANDUM OF		
l i				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	1637	1081
17	LC075380	12-0467-0020-0000 12-0467-0020-0001 12-0467-0031-0000	Q100586000	MARY HOLBERT ELLYSON AND R. G. ELLYSON, HER HUSBAND; DELLA HOLBERT HARRIS AND STANLEY R. HARRIS, HER HUSBAND; HARRY E. HOLBERT AND MARY RUTH HOLBERT, HIS WIFE; EVANARO SNYOER AND VIOLET SNYOER, HIS WIFE; WILLIAM G. HOLBERT JR., A MARRIED MAN; SMITH F. HOLBERT AND GRACE HOLBERT, HIS WIFE; CLAUDIA L. HOLBERT, WIFE OF WILLIAM G. HOLBERT, IR.; MARY ETHEL YOST, A MARRIED WOMAN; FRANK A. YOST, HUSBAND OF MARY ETHEL YOST, HELEN HAMILTON AND WILLIAM H. HAMILTON, HER HUSBAND; GEO. B. HOLBERT AND ELOISE V. HOLBERT, HIS WIFE; MARIE MCDOUGAL AND RAY MCDOUGAL, HER HUSBAND; EMMA JEANNE HOLT, DIVORCED; MARY K. NIXON AND RONALD E. NIXON, HER HUSBAND; RALPH S. SNYOER, WIDOWER; LOUISE NESSELROTTE AND HOMER RESSELROTTE, HER HUSBAND; CLYOE P. SNYOER, DIVORCED; CLARICE HOLBERT, WIDOW; C. R. HOLBERT, WIDOWER; CATHERINE L. HOLBERT, WIDOW; C. R. HOLBERT, S. AND ANNA M. HOLBERT, HIS WIFE; KATHRYN H. HENRY, WIDOW; CARL C. HOLBERT AND VIRGINIA L. HOLBERT, HIS WIFE; LOUISE A EVANS AND T. J. EVANS, HER HUSBAND; JOHN L. HOLBERT AND LUCILLE E. HOLBERT, HIS WIFE; GLENNA FLOYD AND V. VERYL FLOYD, HER HUSBAND; BETTY L. LAYFIELD, SINGLE AND H. R. HOLBERT AND MARIE HOLBERT, HIS WIFE; GLENNA FLOYD AND V. VERYL FLOYD, HER HUSBAND; BETTY L. LAYFIELD, SINGLE AND H. R. HOLBERT AND MARIE HOLBERT, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	1023 1136	565 25(
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	
1				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT	1522	
[1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF	1322	
1			l	DOLUMENT TO LUCY MECTON, MAC	CALL CAS COMBANATO	FARMOUT AGREEMENT	1524	49:
1			l	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	LIMITED PARTIAL ASSIGNMENT (50%)	1543	
1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (30%)	1576	
1				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT (32%)	1584	
			1	CNX GAS COMPANY LLC NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	
1			1		DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
j l			l	DOMINION TRANSMISSION, INC.	DOWNHOOM EMERGY TRANSPORTING	SECOND AMENDMENT TO MEMORANDUM OF	1	
1 1			1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	58
1			1			THIRD AMENDMENT TO MEMORANDUM OF	1	1
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	LEWIS 736	22

Environne	MAR 18 2021	RECEIVED RECEIVED Office of Oil and Gas						
1	,	1	ı	CIDNEY HAVE OND AND MIDGING HAVE TOND HIS WIFE	Tourtu grani on contonny	NOT LESS THAN 4 /D	121	154
1			İ	SIDNEY HAYMOND AND VIRGINIA HAYMOND, HIS WIFE SOUTH PENN OIL COMPANY	SOUTH PENN OIL COMPANY HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8 ASSIGNMENT	204	402
ļ			ł	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
İ			1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
			1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
1				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
	İ			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
19	LC008514	12 0467 0052 0000	010000000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
19	1.000514	12-0467-0052-0000	Q100306000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
ł			į	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
			Į	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
	ļ			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				PATRICIA B. SMITH, WIDOW; AND VIRGINIA LAURA SMITH, SINGLE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	996	672
ŀ				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136 51	250 795
1				CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE MERGER/NAME CHANGE	58	362
				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
21	LC022729	12-0487-0005-0000	Q100867000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
ł				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
Ì			ł	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1	1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
1	i l					SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	LEWIS 736	220
1				MELVINA E. COOKMAN, A SINGLE WOMAN	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	242	386
I				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
1				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
1	ļ			CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154 57
1				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684 712	848
64	LC066698	04-010C-0016-0000	Q100879000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	340
i				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT MERGER/NAME CHANGE	wysos	
I				DOMINION TRANSMISSION, INC. NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
1	1			HODEL LITERGY, INC.	III EITERGE II AFFALACIIA, ECC	SECOND AMENDMENT TO MEMORANDUM OF	/22	270
I				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
	1		I			THIRD AMENDMENT TO MEMORANDUM OF		
1								
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558



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

December 30, 2020

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

RE: Drilling Under Roads - Schoen 1205 S-9H

Grant District, Harrison County

West Virginia

Dear Ms. Kees -

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

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

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

FEB 08 2021

WW-6AC (1/12)

Date of Notice Certification: 02/21/2021

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

			erator's Well N	
		W	ell Pad Name: _	Schoen Well Pad
Notice has be Pursuant to the	e provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has provide	ed the required p	arties with the Notice Forms liste
State:	West Virginia	Ea	sting: 555985.	.9
County:	Harrison		orthing: 433379	1.3
District:	Grant	Public Road Access:	-	rter Road
Quadrangle:	Mount Clare	Generally used farm	name: Schoen	
Watershed:	Middle West Fork Creek			
prescribed by it has provide information reof giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sed the owners of the surface described and sed the owners of the surface described and (c), surface owner notice of entry to so of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall have been completed by the applica	shall contain the following inform ibed in subdivisions (1), (2) and ection sixteen of this article; (ii) the urvey pursuant to subsection (a), of this article were waived in wr tender proof of and certify to the s	ation: (14) A cer (4), subsection at the requirement section ten of t iting by the sur	rtification from the operator that (b), section ten of this article, tent was deemed satisfied as a res his article six-a; or (iii) the notiface owner; and Pursuant to We
that the Ope	West Virginia Code § 22-6A, the Orator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this ed parties with the following:	Notice Certifica	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		P RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or <a> NO PLAT SURVEY	WAS CONDUC	CTED RECEIVED
_	TICE OF ENTRY FOR PLAT SUR	VEY or NO PLAT SURVEY NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLA WAS CONDUCTED or	D BECAUSE	RECEIVED RECEIVED NOT REQUIRED
_	•	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLA	D BECAUSE AT SURVEY	RECEIVED/ NOT REQUIRED
■ 3. NO	•	□ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAN WAS CONDUCTED OF □ WRITTEN WAIVER BY (PLEASE ATTACH)	D BECAUSE AT SURVEY	RECEIVED/ NOT REQUIRED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAN WAS CONDUCTED OF ☐ WRITTEN WAIVER BY (PLEASE ATTACH)	D BECAUSE AT SURVEY SURFACE OW	RECEIVED/ NOT REQUIRED

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator: HG II Appalachia, LLC

By: Diane White Drane White

Its: Agent

Parkersburg, WV 26101
Facsimile: 304-863-3172

Address:

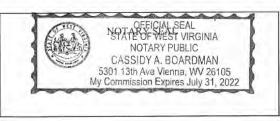
Telephone: 304-420-1119 Email: dwhite@hgenergyllc.com

Subscribed and sworn before me this 21st day of January, 2021

Notary Public

5260 Dupont Road

My Commission Expires 7 3 2023



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

FEB 0 8 2021

WW-6A (9-13)

4703306006

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

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

Noti	ce Time Requirem	ent: notice shall be provided no later th	an the filing date of permit application.	
	e of Notice: 11.23.20 ce of:	Date Permit Application Filed: 11/	25/20	
V	PERMIT FOR AN		PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursu	ant to West Virginia Code § 22-6A-1	0(b)	
	PERSONAL SERVICE		HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION	
regis sedii the	stered mail or by any ment control plan recontrol plan recontrol plan recontrol gas leasehold being ribed in the erosion at ator or lessee, in the ecoal seams; (4) The work, if the surface bundment or pit as do a water well, spring ride water for consumptions of the sheriff requision of this article to eR. § 35-8-5.7.a recorr purveyor or surface	method of delivery that requires a receipt quired by section seven of this article, and a which the well is or is proposed to be lo ng developed by the proposed well work, and sediment control plan submitted pursi- event the tract of land on which the well cowners of record of the surface tract or to tract is to be used for the placement, cons- escribed in section nine of this article; (5) or water supply source located within on- aption by humans or domestic animals; and vity is to take place. (c)(1) If more than the tion hold interests in the lands, the applica- tion the contrary, notice to a lien holder is no quires, in part, that the operator shall also be owner subject to notice and water testin		he erosion and e owners of record of tracts overlying the disturbance as The coal owner, underlain by one or bed by the proposed by andonment of any o the applicant to by the proposed to the applicant to by the applicant to by the proposed to the applicant to by the applicant to by the applicant to by the applicant to by the applicant to by the applicant to by the applicant to by the proposed the applicant to by the applic
	Application Notice URFACE OWNER(/	ee ☑ Well Plat Notice is hereby provided to: ☐ COAL OWNER OR LESSEE	RECEIVED
Nan			Name:	Office of Oil and Gas
Add	ress: PO Box 158		Address:	_ FEB 0 8 2021
Nar Ado	Lost Creek, WV 26 ne: lress:	3385	☐ COAL OPERATOR Name: Address:	— WV Department of Environmental Protectio
□S	URFACE OWNER	(s) (Road and/or Other Disturbance)		
Nar			☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)	
Add	Iress: 4856 SW 95th Gainesville, FL 32	608	Name: Vera & Oral Haught	
Nar	ne: Joseph Queen	J	Address: 400 Justice Avenue	
	ress: P. O. Box 531		Logan, WV 25601	D A OE EIEI D
	Lost Creek, WV 26		☐ OPERATOR OF ANY NATURAL GAS STO Name: Dominion Energy Transmission Attn: Ronald Waldru	
		(s) (Impoundments or Pits)	Name: Dominion Energy Transmission Attn: Ronald Waldre Address: 925 White Oaks Blvd	
			Bridgeport, WV 26330	_
. 141			*Please attach additional forms if necessary	

Office of Oil and Gas

FFR 0 8 2021

API NO. 474 OPERATOR WELL NO 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 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 madequate or otherwise require alteration to address the items WW-6A (8-13)

API NO. 47- 7 0 3 3 0 6 0 0 6

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 RECEIVED Office of Oil and Gas location or construction of the applicant's proposed well work to the Secretary at:

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

FEB 0 8 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.

WW-6A (8-13) API NO. 477 0 3 3 0 6 0 0 6
OPERATOR WELL NO. Schoon 1205 N-1H to S-1DH
Well Pad Name: Schoon 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.

Office of Oil and Gas

FEB 0 8 2021

WW-6A (8-13)

OPERATOR WELL NO. Schoen 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:

Diane White

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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

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

worn before methis 1st day of September, 2020 Subscribed and

Notary Public

My Commission Expires

Office of Oil and Gas

FEB 0 8 2021

Schoen 1205 S-7H

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

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

Marilyn Gaines 1191 McWhorter Road Lost Creek, WV 26385

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

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

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

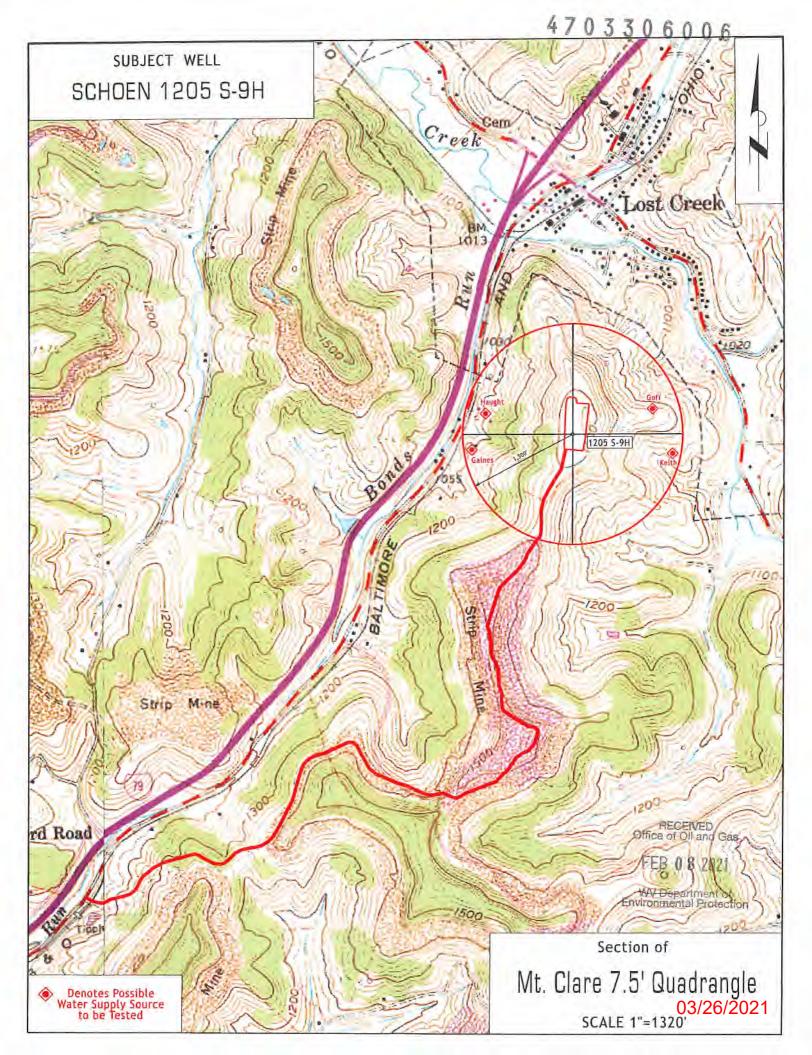
Charles and Franklin Sutton 801 Worthington Drive Bridgeport, WV 26330

RECEIVED
Office of Oil and Gas

FEB 0 8 2021

WV Department of Environmental Protection

03/26/2021



WW-6A4 (1/12)

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.

or (a (a) 110.	2 3 1 1 E COMPANY (1907) 100 A 100 A 100 A			
Notice Time Date of Notic	Requirement: Notice shall be provided to: 12/28/2020 Date I	d at least TEN (10) days prior to filing a Permit Application Filed: 01/11/2021	permit application.	
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(b)		
☐ HAND	■ CERTIFIED MAIL			
DELIVE		REQUESTED		
receipt reque- drilling a hor of this subsec- subsection m and if availab	sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was provided by the surface of the waived in writing by the surface of the facsimile number and electronic management.	days prior to filing a permit application owner notice of its intent to enter upon the ven pursuant to subsection (a), section to ded to the surface owner: <i>Provided</i> , howowner. The notice, if required, shall included address of the operator and the operator	he surface owner's land en of this article satisfies wever, That the notice re lude the name, address, i	for the purpose of s the requirements equirements of this telephone number,
	reby provided to the SURFACE (Name:		
Address: PO		Address:		
	Creek, WV 26385			
State: County: District:	West Virginia Harrison Grant	horizontal well on the tract of land as for th	555986.976 4333800.330 McWhorter Road / SR19	
Quadrangle:	Mount Clare	Generally used farm name:	Schoen	
Watershed:	Middle West Fork Creek			
Pursuant to facsimile nur related to ho	mber and electronic mail address of the rizontal drilling may be obtained from	his notice shall include the name, add he operator and the operator's authoriz the Secretary, at the WV Department of 04 (304-926-0450) or by visiting www.d	ed representative. Addi of Environmental Protec	tional information tion headquarters,
Notice is he	ereby given by:			
Well Operato		Authorized Representative	Diane White	Seven Marie
Address:	5260 Dupont Road	Address:	5260 Dupont Road	Office of Oil and Gas
	Parkersburg, WV 26101		Parkersburg, WV 26101	
Telephone:	304-420-1119	Telephone:	304-420-1119	FEB 0 8 2021
Email:	dwhite@hgenergyllc.com	Email:	dwhite@hgenergyllc.com	HALS SEE CH
Facsimile:	304-863-3172	Facsimile:	304-863-3172	WV Department of Environmental Protection

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.

Operator Well No. School 1205 N-III In 5-10H

4703306013

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

Date of	Time Re Notice:	quirement: notice shall be pro	ovided no ermit Ap	o later than the filing opplication Filed: 01/1	date of permit	application.
Deliver	y metho	d pursuant to West Virginia	Code § 2	22-6A-16(c)		
m C	CDTTELL	ZD MAII		HAND		
		ED MAIL RECEIPT REQUESTED		DELIVERY		
Pursuar return return return required drilling damage (d) The of notice (at the a Name:	nt to W. eccipt remed oped to be profess to the sentices received. is hereby address light of the second s	Va. Code § 22-6A-16(c), no 1 quested or hand delivery, give tration. The notice required by rovided by subsection (b), sectizizontal well; and (3) A proposurface affected by oil and gas required by this section shall by provided to the SURFACE isted in the records of the sheri & Rosanne Schoen	the surface the surface of the surface of the surface operation e given to the surface operation operation operation operation operation operation operation to the surface operation oper	the date for filing the ce owner whose land obsection shall include this article to a surface use and compenses to the extent the date to the surface owner at the surface owner	will be used to le: (1) A copy ace owner whose ation agreement mages are computed the address list	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Pursuar	is hereb nt to Wes	st Virginia Code § 22-6A-16(c)), notice	is hereby given that th	ne undersigned	well operator has developed a planned
Pursuar operatio	nt to Wes	st Virginia Code § 22-6A-16(c) e surface owner's land for the p), notice i	is hereby given that the	l well on the tra	act of land as follows:
Pursuar operation State:	nt to Wes	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia), notice i	is hereby given that the first that the drilling a horizonta	l well on the tra Easting:	act of land as follows: 555986.976
Pursuar operation State: County	nt to Wes	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia Jamison), notice i	of drilling a horizonta UTM NAD 8	1 well on the tra Easting: Northing:	act of land as follows: 555986.976 4333800.330
Pursuar operation State: County District	nt to Weson on the	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia Hamison Frant), notice :	of drilling a horizonta UTM NAD 8 Public Road	I well on the tra Easting: Northing: Access;	act of land as follows: 555986.976
Pursuar operation State: County District Quadra	on on the	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia Jamison), notice i	of drilling a horizonta UTM NAD 8 Public Road	1 well on the tra Easting: Northing:	act of land as follows: 555986.976 4333800.330 McWhorter Road / SR 19
Pursuan operation State: County District Quadra Waters This N Pursuan to be p horizor surface informatheadqu	to Weson on the second on the second on the second of the	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia darrison forant fount Clare 7.5' liddle West Fork Creek all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-10(and (3) A proposed surface us by oil and gas operations to ated to horizontal drilling may becated at 601 57th Street, SE,), this no (b) to a se and co the exter	UTM NAD 8 Public Road a Generally use otice shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secret	Easting: Northing: Access: ed farm name: OA copy of this e land will be not containing an ompensable uncary, at the WV	act of land as follows: 555986.976 4333800.330 McWhorter Road / SR 19
Pursuar operation State: County District Quadra Waters This N Pursuar to be p horizor surface informatheadqu gas/pag	on to Weston on the wind well; Med: Med: Med: Med: Med: Med: Med: Med:	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia larrison Grant Mount Clare 7.5' liddle West Fork Creek all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-10(c) and (3) A proposed surface us by oil and gas operations to ated to horizontal drilling may ocated at 601 57th Street, SE, lt.aspx.), this no (b) to a se and co the exter	UTM NAD 8 Public Road . Generally use otice shall include: (1) surface owner whose memory of the damages are continued from the Secret leston, WV 25304	Easting: Northing: Access; ad farm name: A copy of this e land will be not containing an ompensable uncary, at the WV (304-926-0450)	act of land as follows: 555986.976 433800.330 McWhorter Road / SR 19 Schoen code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection) or by visiting www.dep.wv.gov/oil-and-
Pursuar operation State: County District Quadra Waters This N Pursuar to be p horizor surface informat headqu gas/pas Well O	otice Shart to Western	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia larrison Grant Mount Clare 7.5' liddle West Fork Creek all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-10(c) and (3) A proposed surface us by oil and gas operations to ated to horizontal drilling may ocated at 601 57th Street, SE, lt.aspx. HG Energy II Appalachia, LLC), this no (b) to a se and co the exter	UTM NAD 8 Public Road a Generally use otice shall include: (1) surface owner whose ompensation agreement the damages are comined from the Secret	Easting: Northing: Access: ad farm name: OA copy of this e land will be not containing an impensable unclary, at the WV (304-926-0450)	act of land as follows: 555986.976 433800.330 McWhorter Road / SR 19 Schoen code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Pursuar operatic State: County District Quadra Waters This N Pursuar to be p horizor surface informate headqu gas/pag	nt to Weson on the second on the second on the second of t	st Virginia Code § 22-6A-16(c) e surface owner's land for the p Vest Virginia larrison Grant Mount Clare 7.5' liddle West Fork Creek all Include: st Virginia Code § 22-6A-16(c) by W. Va. Code § 22-6A-10(c) and (3) A proposed surface us by oil and gas operations to ated to horizontal drilling may ocated at 601 57th Street, SE, lt.aspx.), this no (b) to a se and co the exter	UTM NAD 8 Public Road . Generally use otice shall include: (1) surface owner whose memory of the damages are continued from the Secret leston, WV 25304	Easting: Northing: Access; ad farm name: A copy of this e land will be not containing an ompensable uncary, at the WV (304-926-0450)	act of land as follows: 555986.976 433800.330 McWhorter Road / SR 19 Schoen code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-

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

FEB 0 8 2021

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

Chemical Name	CAS#	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
_		7647-14-5
_		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
PTO FIID II	IVIIXture	68607-28-3
		107-21-1
	- -	111-76-2
		67-56-1
		107-19-7
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
		1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
TROGEE 4.5	04742-30-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
CCALE CLEAR CLAIA	107-21-1	
SCALE CLEAR SI 112	107-21-1	<u> </u>
PROBREAK 4	Mixture	57-50-1
TRODICAR	Winkture	107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	N disabectors	67.62.0
LVO - LIOM - TOS-IN	Mixture	67-63-0
		68439-45-2
	-	2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED
Office of Oil and Gas

FEB 0 8 2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

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-9H Well Site

Dear Mr. Martin,

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

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

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

File

CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS

HG 1205 WELL PAD

71100	SHEET DEVELOPMENT PLANS
2A-2K SITE	DESCRIPTION OF THE PROPERTY OF
	DEVELOPMENT PLANS
3 WELL	PAD SECTIONS
4A-4D ACCE	ESS ROAD SECTIONS
5A-5F CON	STRUCTION NOTES & DETAILS
6A-6J REST	TORATION PLAN
7A-7C PRO	PERTY MAP

CONSTRUCTION SEQUENCE

- 1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 611 by dialing 811 or 1-800-245-4648 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.
- 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.
- Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.
- Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- Construction of Buildings, Utilities, and Paving During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- Final Stabilization, 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

PENN ENVIRONMENTAL & REMEDIATION, INC.

111 RYAN COURT PITTSBURGH, PA 15205 (412) 722-1222 FEB 0 8 2021
WV Department of avironmental Protection

WELL #	LAT.	LONG.
N-3H	N 39,1524886	W 80.3518727
N-ZH	N 39.1524277	W 80.3518782
N-4H	N 39,1523867	W 80,3518838
N-1H	N 39:1523457	W 60.3518893
N-5H	N 39.1523047	W 80.3518949
SBH	N 39.1516447	W 80.3520486
S-7H	N 39.1516039	W 80.3520554
S-10H	N 39.1515630	W 80.3520622
S-9H	N 39.1515222	W 80.3520690
5-84	N 39.1514813	W 80.3520758
	WELL ELEVATION	

						LATTTUDE	LONGITUDE
1205 WELL P.	PAD	ACCESS	ROAD	ENTRANCE	N 39.1340433°	W BO.3760995	

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
INTERSTATE 79 RIGHT OF WAY	N/A	N/A	0.704
FRANKLIN L. SUTTON	17-12-0466-0014-0002	39.4314	0.498
CHARLES R. SUTTON	17-12-0466-0015-0000	11.3466	0.532
FRANKLIN L. SUTTON	17-12-0466-0016-0000	22.3733	1.391
CHARLES R. SUTTON	17-12-0466-0017-0000	37.5166	3.008
FRANKLIN L. SUTTON	17-12-0446-0047-0000	25.9586	1.399
CHARLES R. SUTTON	17-12-0446-0048-0000	86,5040	3,008
CHARLES R. SUTTON	17-12-0468-0019-0000	62.7575	0.604
JOSEPH C. QUEEN	17-12-0447-0043-0001	16.9336	2.145
JOSEPH C. QUEEN	17-12-0447-0032-0000	35.5669	2.162
THOMAS K. YOUNG	17-12-0446-0029-0000	73.275	6,570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2564	7,792
TOTAL LIMIT	OF DISTURBANCE		29.813 M

APPROVED
WVDEP OOG
12/1/2020

REVISIO	N DATE	DESCRIPTION
1	08/17/2020	QUANTITY UPDATE AND CHANNEL MODIFICATIONS
2	08/27/2020	CLIENT REVISIONS
- 3	09/18/2020	REVISED PER WYDEP COMMENTS
+	10/28/2020	REVISED PER CUENT CONNENTS
5	11/11/2020	CUENT WELL REVISIONS
- 6	11/20/2020	REVISED PER WYDEP CONNENTS



TITLE SHEET

HG 1205 PAD

GRANT DISTRICT

HARRISON COUNTY, WEST VIRGINIA

PREPARED FOR
HG ENERGY II APPALACHIA, LLC
PARKERSBURG, WEST VIRGINIA

PARKERSBURG, WEST VIRGINI.

APPROVED MEP 03/31/2020
GHECKED CAC 03/30/2020

DRAWN WE 03/34/2020

PROJECT No. 4000-PA0075 DRAWING NUMBER PA007915-001 SHEET 1

Dial 811 or

800,245,4848

MEP 03/31/2020
MER 03/24/2020
MER 03

WEST VIRGINIA [1]

1 SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONDED FOR LOCATING MAINTAINING AND RITH ACING AS ADDESSARY TO ENSURE CONTINUAL SERVICE.

YOU DIG!

1205-PACO7916 HG 1205\DRAWINGS\PACO7918 1205 PAD TILE SE

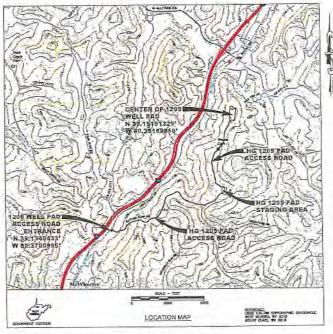
CONSTRUCTION IMPROVEMENT PLANS WITH **EROSION AND SEDIMENT CONTROLS** HG 1205 WELL PAD

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

CONSTRUCTION SEQUENCE

- 1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.
- 2. Site access This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles.
- 3. Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.
- 4. Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- 5. Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- 6. Construction of Buildings, Utilities, and Paving During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may
- 7. Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- 8. Final Stabilization, 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 PITTSBURGH, PA 15205 (412) 722-1222

Final Development - Gravel Colign						
		Cut :	FE		CADIO.	
226 Well Part		1,560	10.71		250	á.
1705 Well Find Access Flood	11	2.710	12.23	non	174	4
205 Well Part Stognijj Area		340	-	2 1	10	200
Totals		4,710	23,27		130	14
Est, Swell Factor	David C	~	~		95	-
Total Sin Balance:				-2-	720	
Stripped Topsol (Limits of Endonoris)				_ _	9,192	
Ext, SweLFortni	(20*+)				1,839 /	
Fil. Topsoil Stockpile Williams (Locke (m				1.031	
Minimum Total Stockpler Conscisty Rec	nes post			11	2.751	
Nane				-		
and may not be improved alway of an	CHARL COSTANT	2				
4. Estimates do not referct criminación p	pay volumes,	i Pati	ives 1.			
Estimates do not refere commación p Estimated Grave) Countries	PHO 1203 Access Panel	Pad t Sayre	thes i	205 Well Peul	-	
4. Estimates do not referct criminación p	PHI COS Aporta Pavid	Engre Sagre	50 -	23,405	39,613	
Estimated Grave) Countilies Control of Grave) Countilies Total County (North Styles) Spensor I County Religion	PHO 1705 Accord Flowed 15 658	Pad	thes i	-	39,613	A
Estimated Grave) Guardities Countries Countri	PHO 1203 Accept Rand 15.656	3.5 3.5 3.7	50 -	23,405	39,613\ 2,644 6,210	A
Estimated Grave) Countries Total Graves (Report Sty) Socrate 1 Fr Graves (Report Sty) Socrate 1 Fr Graves (Report Sty) Socrate 1 Fr Graves (Report Sty) Socrate 1 Fr Graves (Report Sty) Socrate 1 Fr Graves (Report Sty) Socrate 1 Fr Graves (Report Sty) Socrate 1 Fr Graves (Report Sty) Socrate 1 Fr Graves (Report Sty)	Pag volumer, Pag 1993 Acct at Fashe 15 558 1,119 Sock Length Sock Length	3.5 3.5 3.7	50 -	23,405	39,613\ 2,644 6,210 500	4
Estimated Grave) Countries Estimated Grave) Countries A A A A A A A A A A A A A	Pag volumes, Accrat Reld (15.552) (1.119) Sock Length Sock Length (15.55)	3.5 3.5 2 F)	50 -	23,405	39,613\ 2,644 6,319 900	A
Estimated Grave) Countries Art and Countries And Service Services Art and Countries And Services Art and Countries And Services Estimated And Across Read 6" First Estimated Stogley Arcs Read 6" First Estimated Well Pad 6" First Services Countries And Across First Estimated Well Pad 6" First Services LITERA_ESTIMATED 6" Company of First LITERA_ESTIMATED 6" Company of First LITERA_ESTIMATED 6" Company of First Across Read 6" Company of First LITERA_ESTIMATED 6" Company of	Pop volumes, Accra Rend (15.558) (1.119) Sock Length (5.54) Sock Length (5.55)	Padi Sagre 3.5 2 LFI	50	23.405 1,480	39,613 2,844 6,319 900 1,115 6,325	A
Estimated Grave) Countries Estimated Grave) Countries Int Gold Connect Report Pop Notation 1 for Connect Report Pop Notation 1 for Connect Report Pop Estimated And Account Road 6" Filter Estimated Countries Esti	Pop volumes, Accra Rend (15.558) (1.119) Sock Length (5.54) Sock Length (5.55)	Padi Sagre 3.5 2 LFI	50	23.405 1,480	39,613 2,613 6,210 900 1,115 6,225 586	A
Estimated Gene) Coyethia Estimated Gene) Coyethia A Fr Gel Gene Genet Eq. Science 12 Coyethia Estimated Genet Selfine Estimated Genet Selfine Estimated Genet Ge	Pag volumer, Pag 1995 Accord Road (15.658 1.119 Sock Length Sock Length Fight Company Filter Company Filter Control Control Control	Page 2 supre 3.5 (LF) (LF) Societies	50	23.405 1,480	39,613 2,844 6,210 900 1115 8,321 18,822	A
Estimates do not refered minimación l'Estimated General Courettials Toda Comus (Report 20) Sibernest 1915 Automotiva Periode Peri	Pag volumer, Pag 1995 Accord Road (15.658 1.119 Sock Length Sock Length Fight Company Filter Company Filter Control Control Control	Page 2 supre 3.5 (LF) (LF) Societies	50	23.405 1,480	39,613\ 2,644 6,210 900 1,115 6,325 586 18,822 1,691	A
Estimated Gene) Coyethia Estimated Gene) Coyethia A Fr Gel Gene Genet Eq. Science 12 Coyethia Estimated Genet Selfine Estimated Genet Selfine Estimated Genet Ge	Pag volumer, Pag 1995 Accra Rend 1.119 Sock Length Sock Length Fight Fight Company Filter Controlance Distributions	Fade Sales (LF) Sock La Acres) Acres	50	23.405 1,480	39,613 2,644 6,210 900 1,115 6,221 1,631 1,631 3,239	12-4
Estimated Genrel Control of American Act	pay volumer, "ya tada Acara Rand (15 552) 1,119 Sock Length Sock Length (15 652) Compact Fill	Fade Sales (LF) Sock La Acres) Acres	50	23.405 1,480	39,613 2,644 6,210 903 1,115 6,225 16,91 1,031 1,031 1,031 1,031 2,239 2,23,13	2
Selimined Geneel Convolutions Selimined Geneel Convolutions 4 12 Get Geneel Convolutions 13 Geneel 19 Estimated Park Alland Estimated Park Alland Estimated Park Alland Estimated Rough (Alland From From From From From From From From	App 1983 Accord Band (15.538 (11)9 Stock Length Stock Length Stock Length Compact Fibre Chierbance Distributions (Accord Comp	Engre J 3.5 (LF) (LF) Social La Acres)	14es (150 150	23.405 1,480	39,613 2,644 6,210 500 1,115 6,221 585 1,631 2,239 1,631 1,631 1,631 1,631	
Estimated Genrel Control of American Act	App 1983 Accord Band (15.538 (11)9 Stock Length Stock Length Stock Length Compact Fibre Chierbance Distributions (Accord Comp	Engre J 3.5 (LF) (LF) Social La Acres)	14es (150 150	23.405 1,480	39,613 2,644 6,210 903 1,115 6,225 16,91 1,031 1,031 1,031 1,031 2,239 2,23,13	2

WILL F	LAT	LONG.
N-3H	N 39.1524658	W B0.3518727
N-2H	N 39,1524277	W 80,3518782
N-4H	N 39.1523857	W 80.3518838
N-1H	N 39.1523457	W HO.3518893
N-5H	N 39,1523047	W E0.5518549
5-6H	N 39,1515447	W B0,3520486
S-7ft	N 39.1518039	W 80.3520554
E-10H	N 39,1515630	# 80,3520672
S-9H	N 39.1515222	W 80.3520690
S-64	H 39.1514813	W 80,3320758

	LATITUDE	LONGITUDE
205 WELL PAD ACCESS ROAD ENTRANCE	N 39,1340433	W BO.3760995

RECORD	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
NTERSTATE 79 RICHT OF WAY	N/A	N/A	0,704
FRANKLIN L. SUTTON	17-12-0466-0014-0002	39,4314	0.498
CHARLES R. SUTTON	17-12-0455-0015-0000	11,3466	0.532
FRANKLIN L. SUTTON	17-12-04GE-0016-0000	22,3733	1,391
CHARLES R. SUTTON	17-12-0465-0017-0000	37.5166	3,008
FRANKLIN L. SUTTON	17-12-0446-0047-0000	25,9586	1,399
CHARLES R. SUTTON	17-12-0448-0048-0000	86.5040	3,00B
CHARLES R. SUTTON	17-12-0455-0019-0000	62.7575	0,604
JOSEPH C. DUEEN	17-12-0447-0043-0001	15.9336	2145
JDSEPH C. QUEEN	17-12-0447-0032-0000	35,5669/	2.152
THOMAS K. YOUNG	17-12-0445-0029-0000	73.275	5,570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2564	7.792
	OF DISTURBANCE		29.813 A

SIDN	DATE	DESCRIPTION
1	08/17/2020	DUANTITY UPDATE AND CHANNEL WOURCATIONS
2	08/27/2020	CLIENT REVISIONS
3	09/18/2020	REVISED PER WYDEP COMMENTS
4	10/28/2020	REVISED PER CLIENT COMMENTS
5	11/11/2020	CLIENT WELL REVISIONS
5	11/20/2020	FEVISED FER WYDEP COMMENTS
-		STATE OF THE STATE



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

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

PA007916-001



WEST VIRGINIA

YOU DIG!

800,245,4848

EB

0

00

2021

213

