



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, February 9, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD
PARKERSBURG, WV 26101

Re: Permit approval for SCHOEN 1205 N-2H
47-033-06000-00-00

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.

A blue ink signature of James A. Martin.

James A. Martin
Chief

Operator's Well Number: SCHOEN 1205 N-2H
Farm Name: GEORGE & ROSEANNE SCHIFF
U.S. WELL NUMBER: 47-033-06000-00-00
Horizontal 6A New Drill
Date Issued: 2/9/2021

PERMIT CONDITIONS

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

CONDITIONS

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

API Number: _____

PERMIT CONDITIONS

4703306000

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

WW-6B
(04/15)

4703306000
API NO. 47-
OPERATOR WELL NO. Schoen 1205 N-2H
Well Pad Name: Schoen 1205

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

1) Well Operator: HG Energy II Appalachia, Operator ID: 494519932 County: Harrison District: Grant Quadrangle: Mount Clare 7.5'

2) Operator's Well Number: Schoen 1205 N-2H Well Pad Name: Schoen 1205

3) Farm Name/Surface Owner: George Schoen Public Road Access: McWhorter Road / SR25

4) Elevation, current ground: 1410' Elevation, proposed post-construction: 1407'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 7214' / 7315' and 101' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7240'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25,194'

11) Proposed Horizontal Leg Length: 17,266'

12) Approximate Fresh Water Strata Depths: 135', 480', 640', 728'

13) Method to Determine Fresh Water Depths: Nearest offset well data

14) Approximate Saltwater Depths: 1730, 1780, 2010

15) Approximate Coal Seam Depths: 501, 650', 730', 736' (Surface casing is being extended to cover the coal in the DTI Storage Field)

16) Approximate Depth to Possible Void (coal mine, karst, other): None

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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WW-6B
(04/15)

API NO. 4703306000

OPERATOR WELL NO. Schoen 1205 N-2H

Well Pad Name: Schoen 1205

18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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	25194'	25194'	20% excess tail, CTS
Tubing							
Liners							

*SDW
11/25/2020*

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40% excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tail 0% excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.19, tail yield 1.95
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

API NO. 47 0 3 3 0 6 0 0 0

OPERATOR WELL NO. Schoen 1205 N-2H

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 17,266' lateral length, 25,194' 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 joints to surface.
Coal - Bow Spring on every joint, will also be running ACP for isolating storage zone
Intermediate - Bow Spring on first 2 joints then every third joint to 100' from surface.
Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the curve.

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

Conductor - N/A, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water - 15.8 ppg PNE-1 + 3% bwoc CaCl₂, 40% Excess Yield = 1.20, CTS
Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂ 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂ zero% Excess, CTS*
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂ 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂ zero% Excess, CTS*
Production - Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA17020% Excess Lead Yield=1.19 Tail Yield=1.94 CTS*

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.
Fresh Water - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.
Coal - Once casing is at setting depth, circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate - Once casing is at setting depth, circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

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*Note: Attach additional sheets as needed.

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HG Energy II Appalachia, LLC

Schoen 1205 Well Pad (N-1H, N-2H, N-3H, N-4H, N-5H, N-6H, S-7H, S-8H, S-9H, S-10H, S-11H)

Cement Additives

Material Name	Material Type	Material Description	CAS #																		
Premium NE-1	Portland Cement	Premium NE-1 is a portland cement with early compressive strength properties.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Portland cement</td> <td>90 - 100</td> <td>65997-15-1</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> <tr> <td>Magnesium oxide</td> <td>1 - 5</td> <td>1309-48-4</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>0.1 - 1</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Portland cement	90 - 100	65997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>bentonite</td> <td>90 - 100</td> <td>1302-78-9</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-9	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
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Calcium Chloride	Accelerator	A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>90 - 100</td> <td>10043-52-4</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
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Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
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Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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MPA-170	Gas Migration	Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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Poz (Fly Ash)	Base	A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7	Calcium oxide	1 - 5	1305-78-8									
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R-3	Retarder	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Organic acid salt</td> <td>40 - 50</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
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S-5	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>2-Butoxyethanol</td> <td>20 - 30</td> <td>111-76-2</td> </tr> <tr> <td>Proprietary surfactant</td> <td>10 - 20</td> <td>Trade secret.</td> </tr> <tr> <td>D-Glucopyranose, oligomeric, C10-16-alkyl glycosides</td> <td>5 - 10</td> <td>110615-47-9</td> </tr> <tr> <td>Alkylarylsulfonate amine salt</td> <td>1 - 5</td> <td>Trade secret.</td> </tr> <tr> <td>Polyoxyalkylenes</td> <td>0.1 - 1</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	2-Butoxyethanol	20 - 30	111-76-2	Proprietary surfactant	10 - 20	Trade secret.	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110615-47-9	Alkylarylsulfonate amine salt	1 - 5	Trade secret.	Polyoxyalkylenes	0.1 - 1	Trade secret.
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1205 N-2H
Marcellus Shale Horizontal
Harrison County, WV

Ground Elevation		1205 N-2H SHL				14218776.04N 1824137.36E			
Azm		1205 N-2H LP				14218601.45N 1822657.1E			
WELLBORE DIAGRAM		1205 N-2H BHL				14234875.41N 1816906.49E			
HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD. Conductor casing = 0.5" wall thickness
	24"	20" 94# J-55	Fresh Water	0	135, 480, 640, 728	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement. Surface casing = 0.438" wall thickness Burst=2110 psi
			Coal	730	736				
			Surface / FW	0	1200				
	17.5"	13-3/8" 68# J-55 BTC	Little/Big Lime	1467 / 1510	1482 / 1556	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on every joint <i>"will also be running ACP for isolating storage zone"</i>	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement. Intermediate casing = 0.480" wall thickness Burst=3450 psi
			Injun / Gantz (Storage)	1565 / 1900	1690 / 1970				
			Intermediate 1	0	2100				
	12.25"	9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	1993 / 2112	2093 / 2147	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement. Intermediate casing = 0.395" wall thickness Burst=3950 psi
			Gordon Stray / Gordon	2195 / 2250	2250 / 2310				
			5th Sand	2440	2468				
			Warren	2835	2860				
	8.5" Vertical	5-1/2" 23# P-110 HP CDC HTQ	Speechley	3028	3162	9.0ppg SOBMM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement. Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions
Bradford			3342	3367					
Benson			4420	4455					
Rhinestreet			5872	6549	11.5ppg-12.5ppg SOBMM	Run 1 spiral centralizer every 3 joints from the top of the curve.			
Cashaqua			6549	6740					
Middlesex			6740	6870					
West River			6870	7003					
Burkett			7003	7048					
Tully Limestone			7048	7149					
Hamilton			7149	7214					
Marcellus	7214	7315	11.5ppg-12.5ppg SOBMM						
TMD / TVD (Production)	25194	7240							
8.5" Lateral		Onondaga	7315						

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LP @ 7240' TVD / 7928' MD

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

+/-17266' ft Lateral

TD @ +/-7240' TVD
+/-25194' MD

X=centralizers

4703306000

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

SCHOEN 1205 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H & N-5H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300308	Harrison	June Ludwig CW541	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1913	PLUGGED	39.158341	-80.334821
2	4703300310	Harrison	Alice V Knisley	Dominion Energy Transmission, Inc.	Gantz	Storage	1824	ACTIVE	39.157059	-80.340613
3	4703300322	Harrison	I M Swisher	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.167870	-80.365986
4	4703300324	Harrison	John H Hardway 1	Dominion Energy Transmission, Inc.	Gantz	Storage	1644	ACTIVE	39.153472	-80.355885
5	4703300360	Harrison	Jesse C Stout	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.177946	-80.345070
6	4703300369	Harrison	S D B Church	Hope Natural Gas Company	UNKNOWN	not available	-	ABANDONED	39.170834	-80.343766
7	4703300382	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Gantz	Storage	1653	ACTIVE	39.167589	-80.345998
8	4703300397	Harrison	Marcella R Bond	Hope Natural Gas Company	Up Devonian	Gas	1587	PLUGGED	39.152681	-80.357369
9	4703300398	Harrison	J N Rector	Hope Natural Gas Company	Thirty-foot	Storage	2002	PLUGGED	39.149633	-80.359418
10	4703300400	Harrison	Porter M Rogers	Hope Natural Gas Company	Thirty-foot	Storage	2085	PLUGGED	39.162985	-80.351406
11	4703300408	Harrison	M R Bond	Dominion Energy Transmission, Inc.	Gantz	Storage	1726	ACTIVE	39.155851	-80.357903
12	4703300410	Harrison	E A Waggoner	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1964	ACTIVE	39.148438	-80.357974
13	4703300548	Harrison	Mollie V Bassel	Dominion Energy Transmission, Inc.	Benson	Storage	4350	ACTIVE	39.168367	-80.342834
14	4703300654	Harrison	A V Knisley CW542	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1748	ACTIVE	39.159938	-80.337616
15	4703300659	Harrison	S V Curry CW433	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1990	ACTIVE	39.149343	-80.352710
16	4703300661	Harrison	M S Davis CW538	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1885	ACTIVE	39.154774	-80.339266
17	4703300672	Harrison	M V Bassell CW452	Dominion Energy Transmission, Inc.	Fifth	Storage	2233	ACTIVE	39.171125	-80.343021
18	4703300677	Harrison	D L Nutter	Alliance Petroleum Co. LLC	Thirty-foot	Gas	1850	ABANDONED	39.155655	-80.342933
19	4703300685	Harrison	A V Knisley CW547	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1940	ACTIVE	39.165325	-80.338945
20	4703300686	Harrison	Lloyd Stout CW458	Dominion Energy Transmission, Inc.	Gordon	Storage	2051	PLUGGED	39.176350	-80.348052
21	4703300690	Harrison	J J Lewis CW438	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1853	ACTIVE	39.154132	-80.353828
22	4703300692	Harrison	J C Stout CW456	Dominion Energy Transmission, Inc.	Gantz	Storage	1950	PLUGGED	39.171996	-80.346933
23	4703300709	Harrison	M Bond CW335	Dominion Energy Transmission, Inc.	Thirty-foot	Gas	2025	PLUGGED	39.159079	-80.361666
24	4703300710	Harrison	Ray Swisher CW455	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2017	PLUGGED	39.172431	-80.359233
25	4703300711	Harrison	Lewis Davis CW340	Dominion Energy Transmission, Inc.	Gordon	Storage	2117	PLUGGED	39.169606	-80.367107
26	4703300717	Harrison	E H Stout CW464	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1996	ACTIVE	39.183988	-80.351326
27	4703300727	Harrison	Marcella R Bond	Dominion Energy Transmission, Inc.	Benson	Gas	4305	ACTIVE	39.162713	-80.357152
28	4703300737	Harrison	M Bond CW446	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1904	ACTIVE	39.163560	-80.354301
29	4703300741	Harrison	A D Bassell CW453	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2208	PLUGGED	39.172441	-80.348854
30	4703300742	Harrison	A D Bassell CW459	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2145	PLUGGED	39.177553	-80.350856
31	4703300746	Harrison	A Stalnaker CW445	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1935	PLUGGED	39.161560	-80.350301
32	4703300751	Harrison	Emma Post CW451	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2248	ACTIVE	39.169652	-80.353945
33	4703300754	Harrison	A D Bassell CW457	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2160	PLUGGED	39.174028	-80.353269
34	4703300755	Harrison	P Maxwell CW461	Dominion Energy Transmission, Inc.	Gantz	Storage	2188	PLUGGED	39.180559	-80.353642
35	4703300764	Harrison	Milton S Davis	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2214	PLUGGED	39.153552	-80.339108
36	4703300771	Harrison	O G Kennedy CW338	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1996	PLUGGED	39.167697	-80.365568
37	4703300776	Harrison	L Gifford CW337	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1973	ACTIVE	39.165584	-80.364807
38	4703300783	Harrison	M V Bassell CW448	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2127	PLUGGED	39.163631	-80.347893

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39	4703300811	Harrison	D L Nutter	Dominion Energy Transmission, Inc.	Benson	Gas	4365	ACTIVE	39.159500	-80.346443
40	4703300818	Harrison	David C Curry CW441	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1880	PLUGGED	39.158922	-80.351965
41	4703300827	Harrison	A W Smith	Dominion Energy Transmission, Inc.	Fifth	Gas	2389	ACTIVE	39.171375	-80.368174
42	4703300880	Harrison	Marcella Bond	Dominion Energy Transmission, Inc.	Benson	Gas	4476	ACTIVE	39.156295	-80.360290
43	4703300890	Harrison	C H Woodford	Dominion Energy Transmission, Inc.	Benson	Gas	4660	ACTIVE	39.182815	-80.363180
44	4703300922	Harrison	A B Yost	Dominion Energy Transmission, Inc.	Benson	Gas	4455	ACTIVE	39.154204	-80.350633
45	4703301050	Harrison	Bassell 3	Dominion Energy Transmission, Inc.	Fifth	Gas	2314	PLUGGED	39.168513	-80.340039
46	4703301915	Harrison	G Thomas Smith	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4630	ACTIVE	39.161289	-80.365368
47	4703302076	Harrison	A V Knisley	Dominion Energy Transmission, Inc.	Benson	Gas	4227	ACTIVE	39.157180	-80.337989
48	4703302137	Harrison	M S Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4478	ACTIVE	39.152701	-80.338421
49	4703302146	Harrison	Emma Post	Dominion Energy Transmission, Inc.	Alexander	Gas	4980	ACTIVE	39.168746	-80.356491
50	4703302433	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Benson	Gas	4657	ACTIVE	39.166932	-80.350738
51	4703302483	Harrison	C H Woodford CW347	Dominion Energy Transmission, Inc.	Gantz	Observation	2164	PLUGGED	39.183028	-80.362946
52	4703302484	Harrison	C H Woodford CW343	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1960	ACTIVE	39.177808	-80.373752
53	4703302764	Harrison	Sarah Heldreth 3	Dominion Energy Transmission, Inc.	Fifth	not available	-	PLUGGED	39.190301	-80.350811
54	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	Gas	4427	ACTIVE	39.150855	-80.348565
55	4703302876	Harrison	L J Stenger et al	P.G. Oil & Gas, LLC	Alexander	Gas	5100	ACTIVE	39.193173	-80.375451
56	4703302881	Harrison	E S Swisher (CW-344)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.176059	-80.369854
57	4703302938	Harrison	Carl Smith Jr	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2221	ACTIVE	39.179913	-80.359897
58	4703302971	Harrison	P Maxwell et al (CW-463)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.182300	-80.358860
59	4703303050	Harrison	Porter Maxwell (CW-465)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.185710	-80.353760
60	4703303208	Harrison	Porter Maxwell	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.184352	-80.374325
61	4703304875	Harrison	Worthy C Hall	Dominion Energy Transmission, Inc.	Thirty-foot	not available	2362	PLUGGED	39.164004	-80.343017
62	4703330132	Harrison	Thomas B Reed	Hope Natural Gas Company	Hampshire Grp	Gas	2455	PLUGGED	39.190219	-80.360075
63	4703330316	Harrison	W B Lowther	Philadelphia Oil Co.	Hampshire Grp	Oil and Gas	2455	PLUGGED	39.198796	-80.373534
64	4703330534	Harrison	Porter Maxwell 3	Hope Natural Gas Company	Hampshire Grp	Gas	2352	PLUGGED	39.186975	-80.371151
65	4703331780	Harrison	Margert Reed	Hope Natural Gas Company	Hampshire Grp	Gas	2476	PLUGGED	39.191607	-80.361276
66	4703331901	Harrison	S J Davisson CW332	Consolidated Gas Supply Corp.	Hampshire Grp	Storage	2330	OBSERVATION	39.154343	-80.365053
67	4703331906	Harrison	F S Young	Consolidated Gas Supply Corp.	Gantz	Storage	1910	UNKNOWN	39.151280	-80.345552
68	4703331910	Harrison	F S Young	Consolidated Gas Supply Corp.	Gantz	Storage	1910	UNKNOWN	39.160252	-80.346711
69	4703331911	Harrison	D L Nutter CW444	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2235	UNKNOWN	39.159435	-80.340704
70	4703331912	Harrison	D L Nutter CW449	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2362	UNKNOWN	39.162871	-80.342146
71	4703331930	Harrison	E H Stout CW462	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2480	UNKNOWN	39.179554	-80.350086
72	UNKNOWN-1	Harrison	Sarah L Vanhorn 1	UNKNOWN	Fifth	not available	-	PLUGGED	39.196215	-80.361079
73	UNKNOWN-2	Harrison	J.J. Lewis	UNKNOWN	UNKNOWN	not available	-	PLUGGED	39.153186	-80.347510
74	UNKNOWN-3	Harrison	Bond Heirs	UNKNOWN	UNKNOWN	not available	2445	PLUGGED	39.183895	-80.371408

SOURCE: WVGES DATASET (2020) and WVDEP WEBSITE AND FIELD SURVEYS

UPDATED 12/29/2020

YELLOW DENOTES WELL WITH TVD > 4,500'

GREEN DENOTES SURVEYED WELLS

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WW-9
(4/16)

4703306000

API Number 47 - _____
Operator's Well No. Schoen 1205 N-2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907

Watershed (HUC 10) Middle West Fork Creek Quadrangle Mount Clare 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number TBD - At next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*SDW
11/25/2020*

Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air, Air/KCL, Air/SOBM, Horizontal - SOB

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents

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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill

JAN 05 2021

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

WV Department of
Environmental Protection

-Landfill or offsite name/permit number? See Attached

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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

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

Company Official Signature *Diane White*

Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 13th day of November, 2020

Cassidy A. Boardman Notary Public

My commission expires 7/31/2022



4703306000

Form WW-9

Operator's Well No. Schoen 1205 N-2H

HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 29.465 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

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Tall Fescue	40
Ladino Clover	5

Maintain E&S controls through the drilling and completion process

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. Ward II

Comments: Pre-seed/mulch as soon as reasonably possible per regulation.

Upgrade E&S if needed per WV DEP E&S manual.

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WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 11/25/2020

Field Reviewed? Yes No

WW-9
(4/16)

4703306000

API Number 47 - _____ - _____
Operator's Well No. Schoen 1205 N-2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

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*SDW
11/25/2020*

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Company Official Signature Diane White

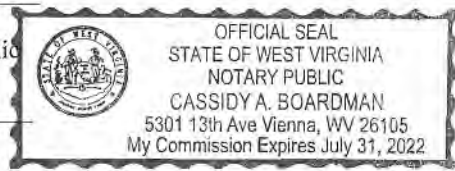
Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 13th day of November, 2020

Cassidy A. Boardman Notary Public

My commission expires 7/31/2022



HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 29.465 Prevegetation pH _____

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Permanent

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Ladino Clover	5

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Title: Oil & Gas Inspector

Date: 11/25/2020

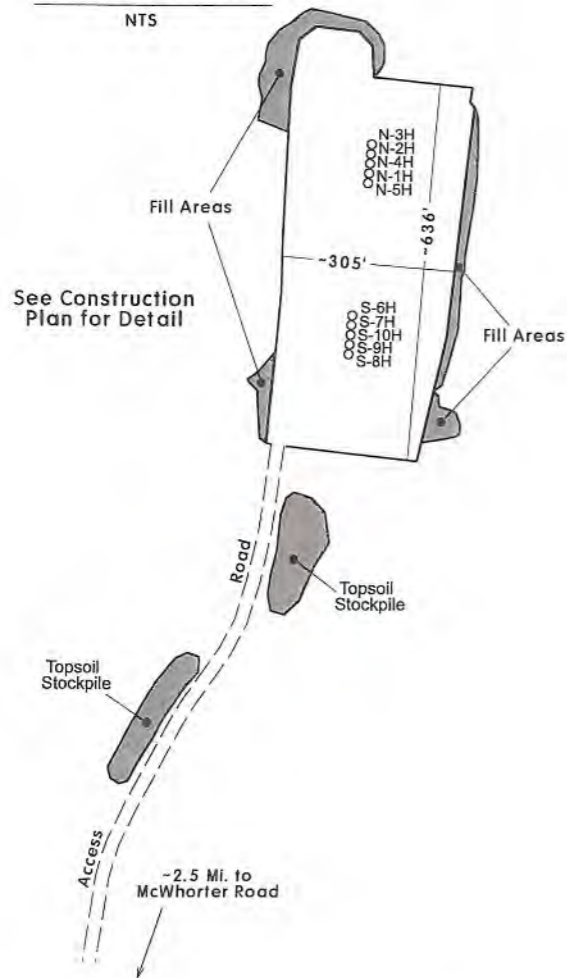
Field Reviewed? Yes No

Reclamation Plan For: SCHOEN 1205 PAD

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PAD DETAIL

NTS

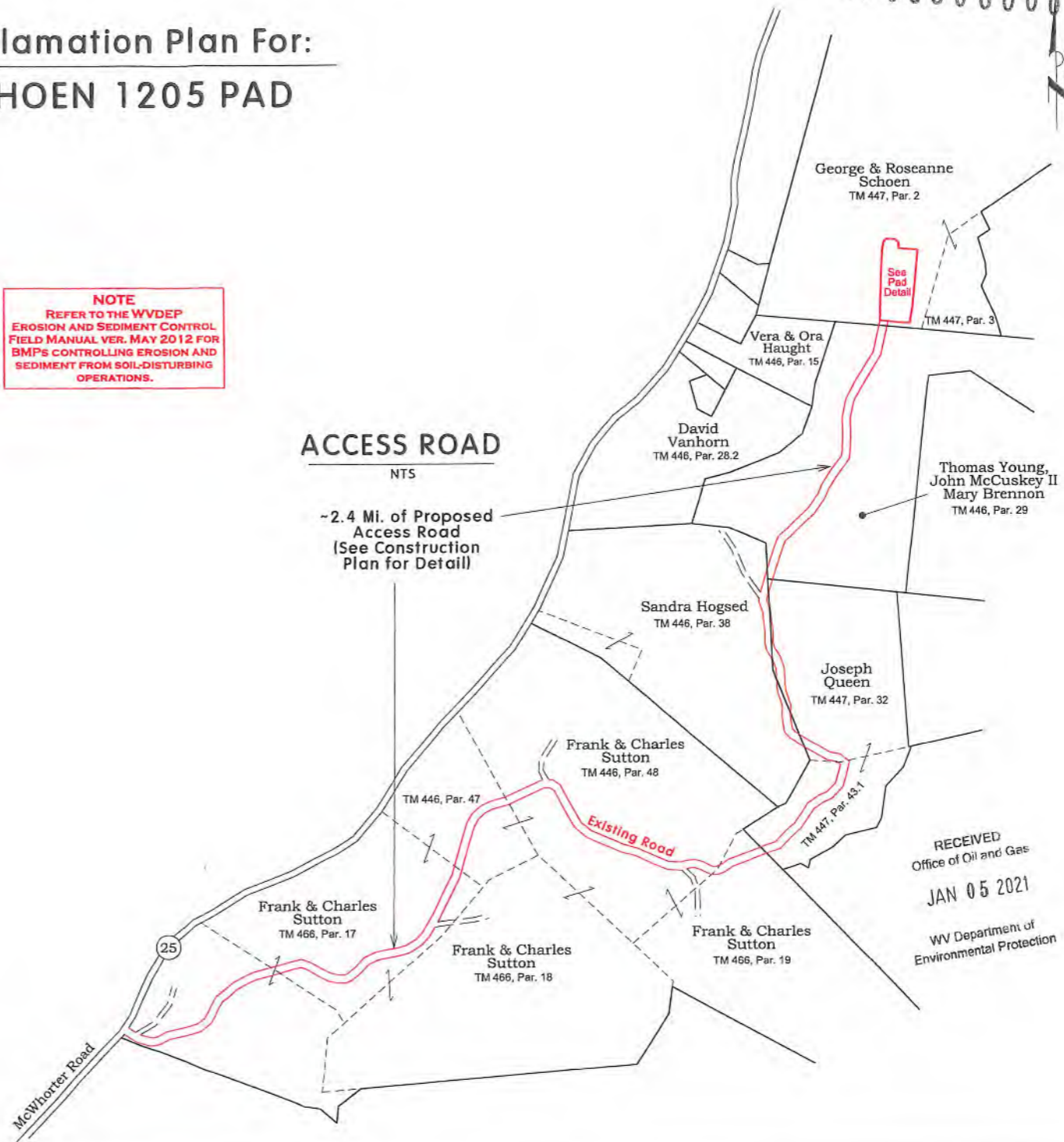


NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

ACCESS ROAD

NTS

~2.4 Mi. of Proposed
Access Road
(See Construction
Plan for Detail)



Notes:

- REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELLS.
- LOCATION AND ACCESS ROADS WILL BE CONSTRUCTED AS SHOWN ON THE ENGINEERED DRAWINGS WHICH ACCOMPANY THIS PERMIT APPLICATION. REFERENCE IS HEREBY MADE TO THOSE PLANS FOR MORE DETAIL ON E&S MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH WVDEP RECLAMATION STANDARDS.
- 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.

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HG Energy II Appalachia, LLC

Site Safety Plan

Schoen 1205 Well Pad

1279 Sutton Farm Rd

Lost Creek

Harrison County, WV 26385

August 2020: Version 1

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

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SEP 03 2020

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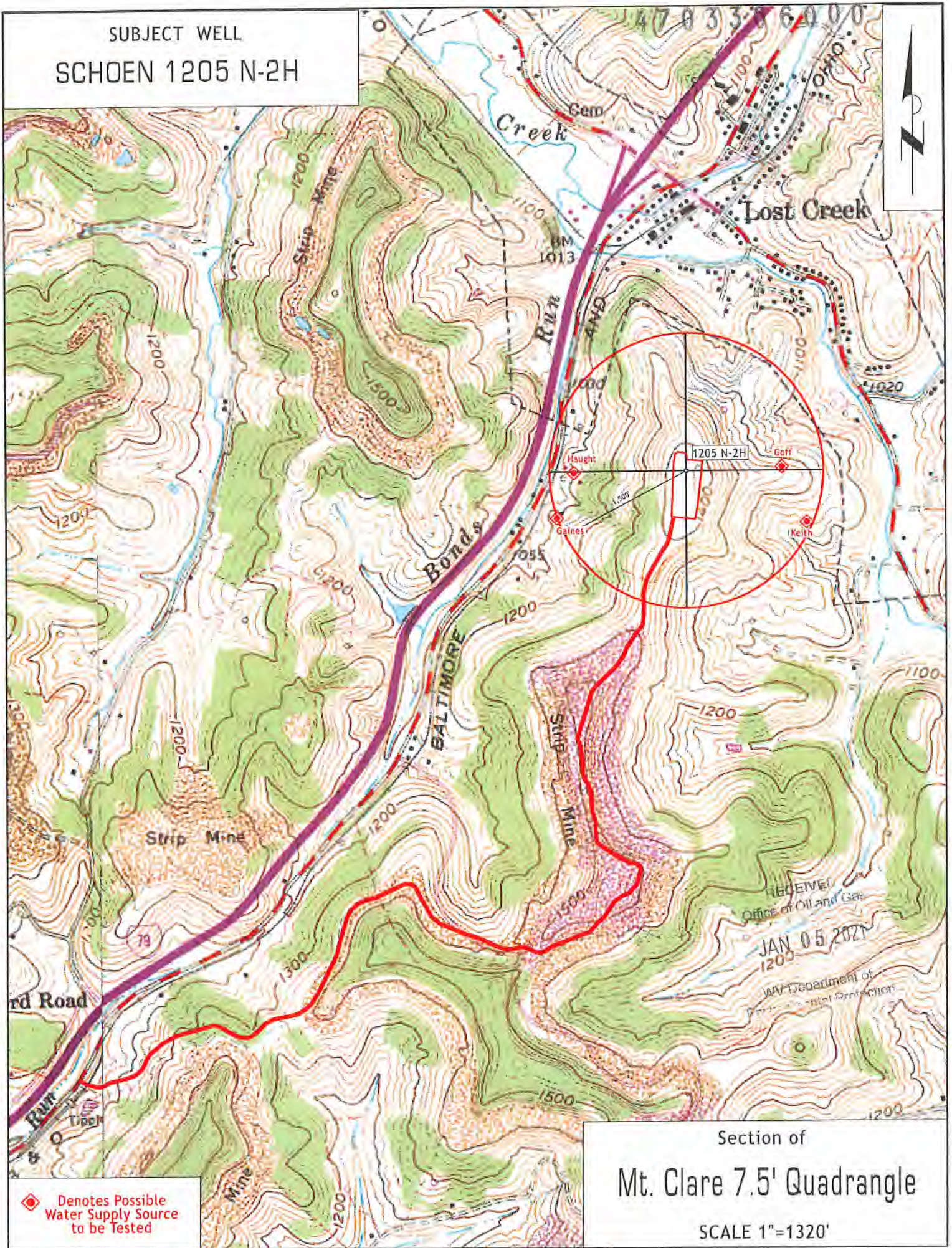
HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

SDUO
8/27/2020

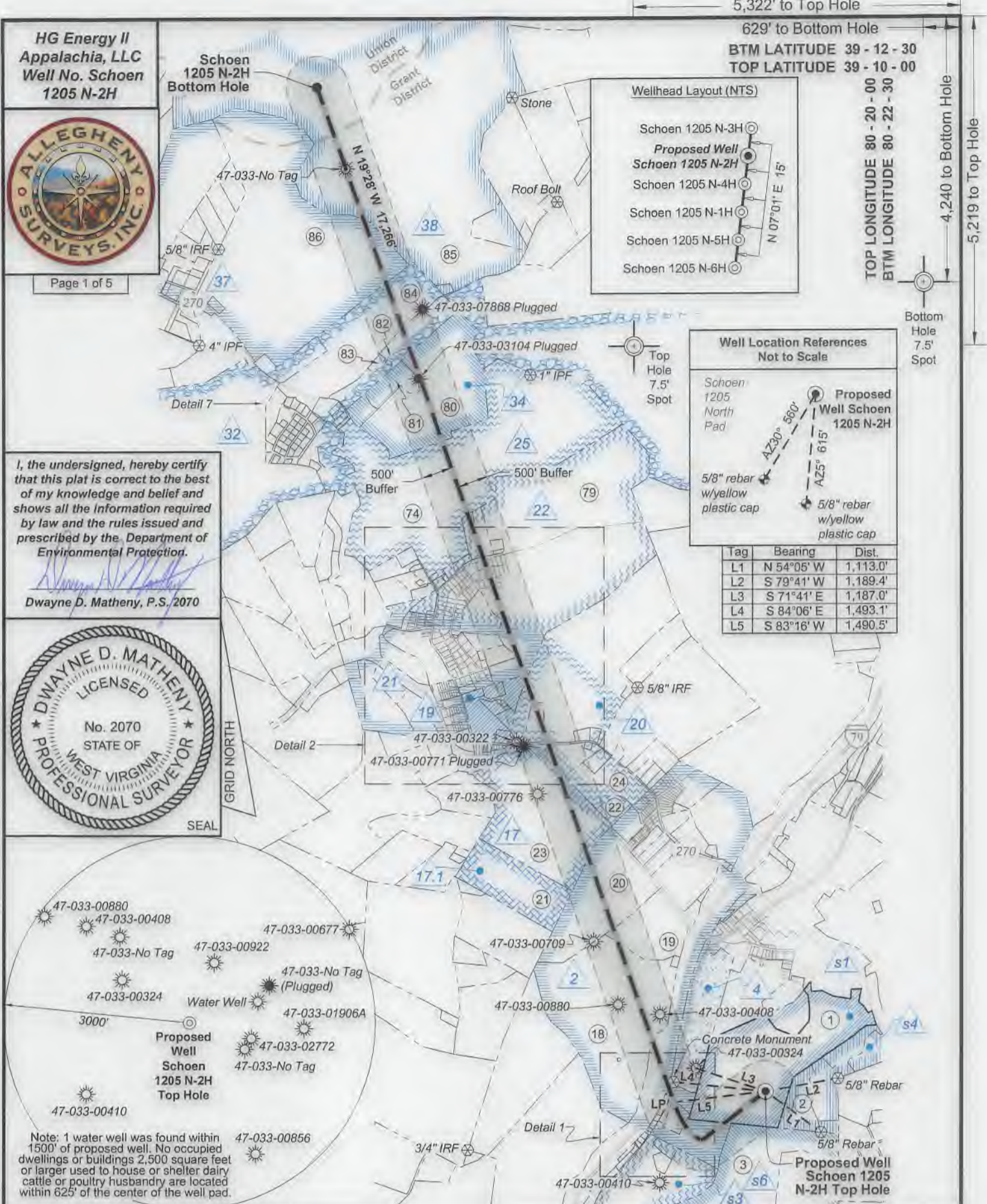
SUBJECT WELL
SCHOEN 1205 N-2H



◆ Denotes Possible Water Supply Source to be Tested

Section of
Mt. Clare 7.5' Quadrangle

SCALE 1"=1320'



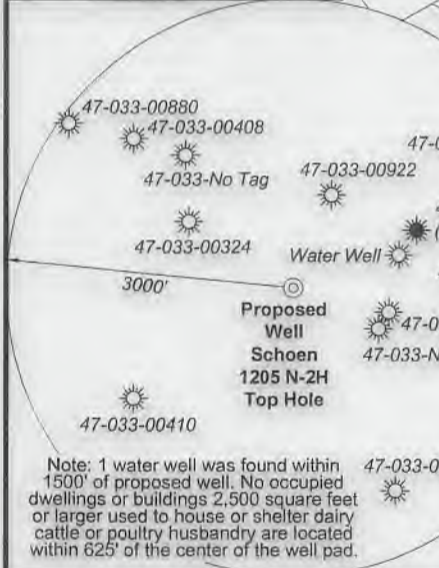
HG Energy II Appalachia, LLC
Well No. Schoen 1205 N-2H



Page 1 of 5

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny, P.S., 2070



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO. H6A
47 - 033 - 0600
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al LEASE NO: _____ ACREAGE: 78.20
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,240' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



ID	Lease
s1	A.B. Post, et al
s3	Emma A. Waggoner, et al
s4	Charlotte C. Gerlach, et al
s6	Susan V. Curry, et al
2	Marcella R. Bond, et vir, et al
4	Gertude Hardaway, et al
17	Lillie Gifford, et al
17.1	Lillie Gifford, et al
19	Georgia A. Barnes
20	Ray T. Swisher, et al
21	A.W. Smith
22	Frank Swisher, et al
25	C.H. Woodford, et ux, et al
32	Porter Maxwell, et ux, et al
34	I. Wilson & Edna M. Swisher
37	W.B. Van Horn, et ux
38	Locie C. Stout, et al
42	O. Glen Kennedy, et al

Notes:

Well No. Schoen 1205 N-2H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,776.04'
E: 1,824,137.36'
Landing Point Coordinates
N: 14,218,601.45'
E: 1,822,657.10'
Bottom Hole Coordinates
N: 14,234,875.41'
E: 1,816,906.49'

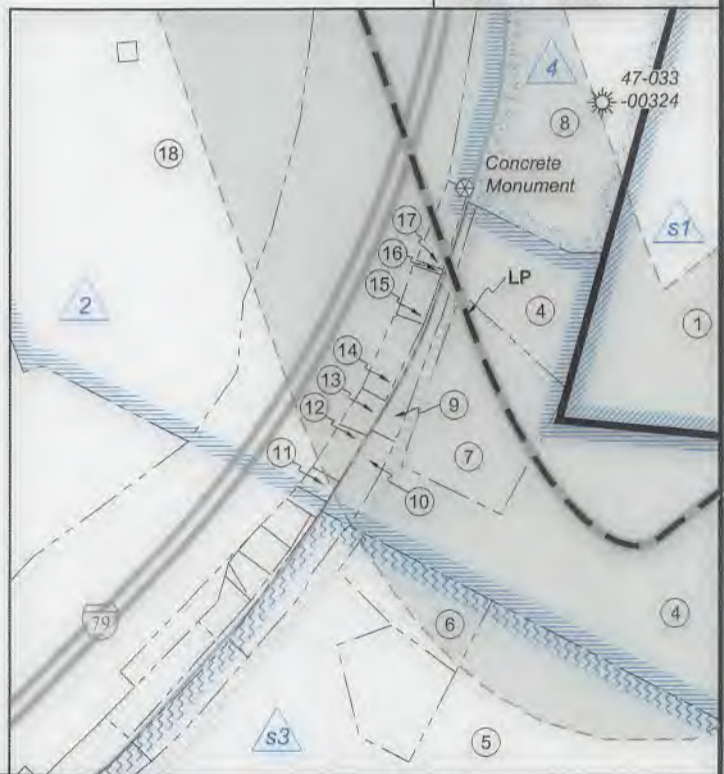
Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Existing Plugged Well, as noted
- Digitized Well, as noted
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- Creek or Drain
- Existing Road
- Railroad Tracks

Notes:

Well No. Schoen 1205 N-2H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'08.40" Latitude: 39°11'48.08"
Longitude: 80°21'07.59" Longitude: 80°22'38.00"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,891.603m N: 4,338,798.703m
E: 555,998.179m E: 553,794.206m
Plat orientation and corner and well references are
based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

Detail 1 - Scale: 1" = 500'



FILE NO: 32-36-G-19

DRAWING NO: Schoen 1205 N-2H 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**

DATE: November 13 2020

OPERATOR'S WELL NO. Schoen 1205 N-2H

API WELL NO. 47-033-06000

47 - 033 - 06000
STATE COUNTY PERMIT

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

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

QUADRANGLE: Top: Mount Clare
Btm: West Milford

DISTRICT: Grant / Union

COUNTY: Harrison

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,240' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

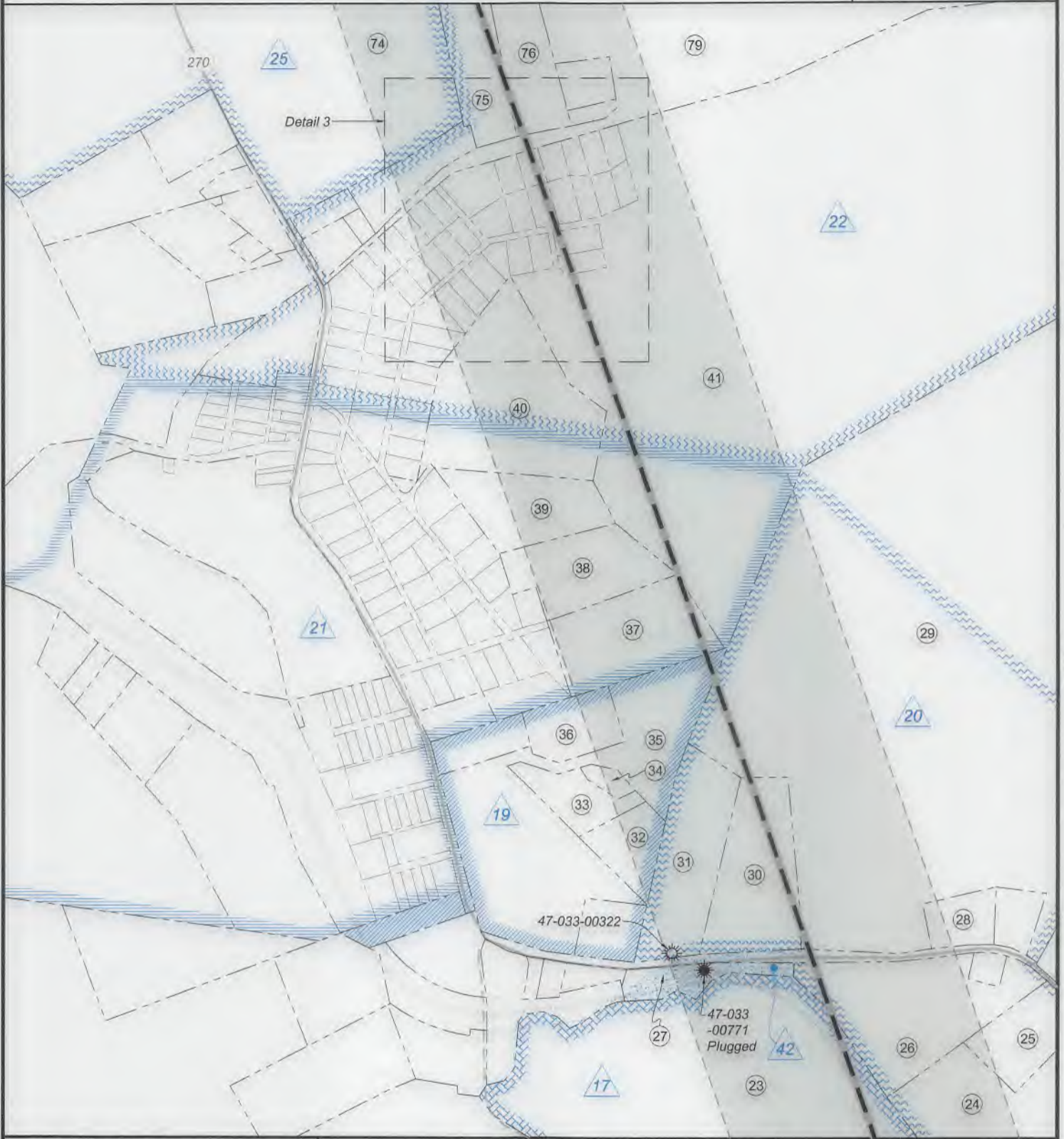
ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101



Detail 2 - Scale: 1" = 500'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

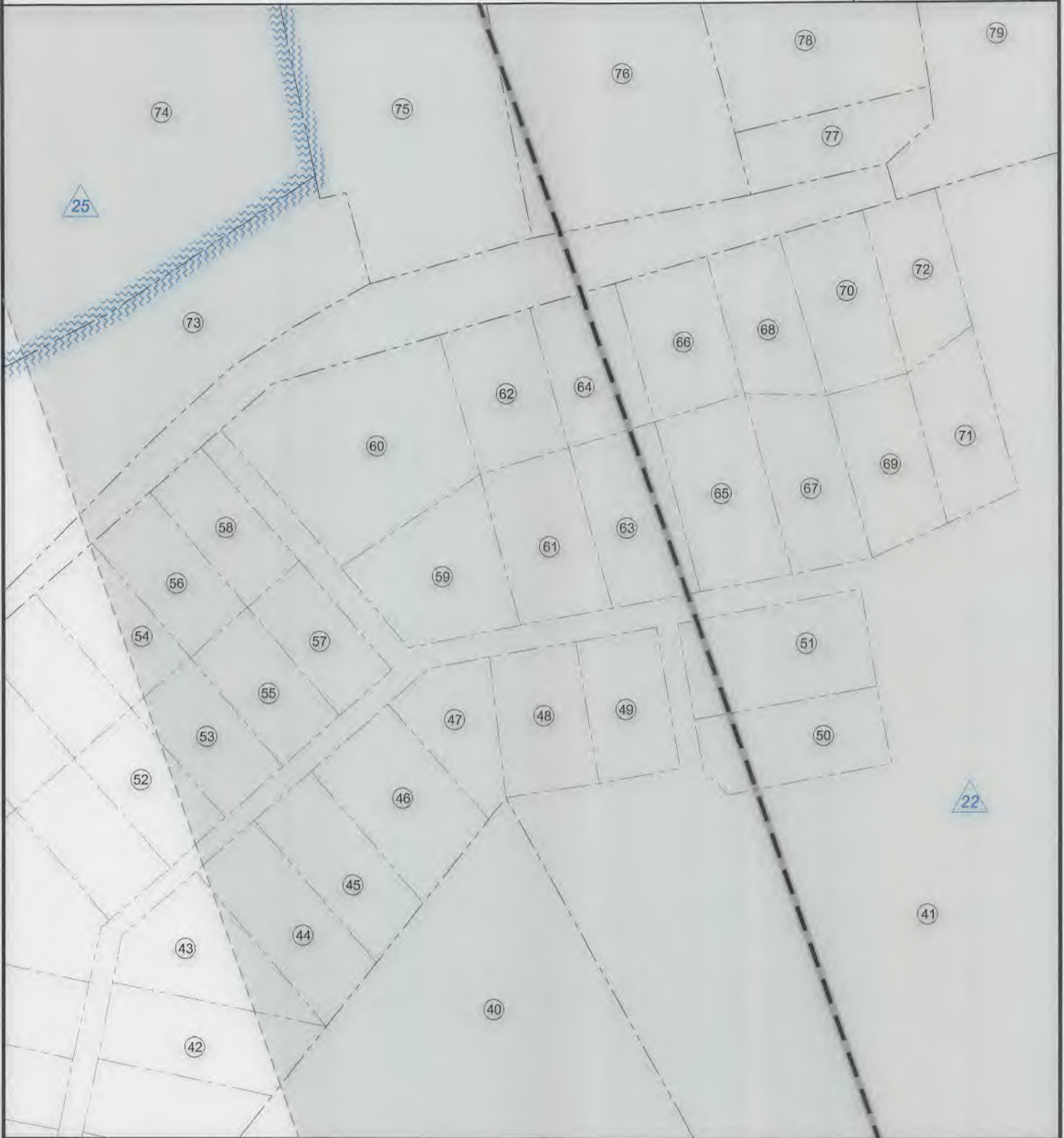
DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO
47 - 033 - 06000
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,240' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



Detail 3 - Scale: NTS



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO
47 - 033 - 06000
STATE COUNTY PERMIT

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

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

DISTRICT: Grant / Union

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,240' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD

Top: Mount Clare
QUADRANGLE: Btm: West Milford

COUNTY: Harrison

ACREAGE: 65.00

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101



No.	TM / Par	Owner	Bk / Pg	Ac.
1	447 / 2	George & Roseanne Schoen	1148 / 1059	65.00
2	447 / 3	George & Roseanne Schoen	1253 / 302	10.06
3	446 / 29	John F. McCuskey II, et al	1121 / 25	75.00
4	446 / 15	Vera E. & Oral K. Haught	1582 / 896	14.40
5	446 / 28.2	David D. Vanhorn (LE), et al	W177 / 92	42.66
6	446 / 28.5	Robert L. Vanhorn	1352 / 91	1.52
7	446 / 12	Marilyn Gaines	1192 / 300	2.93
8	446 / 8	Ruth Ann & Ralph Bradbury	1403 / 610	22.10
9	446 / 15.2	Mildred R. Dean	1060 / 270	0.72
10	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
11	446 / 14	Lisa D. Grogg	1583 / 301	0.14
12	446 / 13	Kimberly Vanscoy	1306 / 5	0.27
13	446 / 13.1	Mack & Thelma Samples	1578 / 761	0.21
14	446 / 11	Mildred Dean	1060 / 270	0.41
15	446 / 10	Karen A. Hayes	1397 / 1135	0.25
16	446 / 7.1	Karen A. Hayes	1397 / 1135	0.03
17	446 / 9	Karen A. Hayes	1397 / 1135	0.36
18	446 / 7	James R. & Sharon L. Allman	1437 / 165	91.79
19	426 / 79	William Lynn Snyder	1022 / 1098	22.00
20	426 / 66	Michael W. & Robert D. Rector	1621 / 719	41.75
21	426 / 65	G. Thomas Smith	1277 / 1174	29.79
22	426 / 51	MBW LLC	1539 / 573	3.60
23	426 / 50	G. Thomas Smith	1277 / 1174	66.80
24	426 / 35.9	MBW LLC	1539 / 573	12.77
25	426 / 35.6	CARCAR LLC	1555 / 1001	2.00
26	426 / 35	Bernard D. Bennett II	1423 / 586	5.66
27	426 / 35.11	Brian M. Koontz	1495 / 551	1.05
28	426 / 35.2	George & Amy Dawson	1380 / 505	1.08
29	426 / 35.8	Lost Creek Salvage LLC	1539 / 1088	85.23
30	426 / 35.4	Christopher M. Fogg, et al	1332 / 822	3.93
31	426 / 35.3	Michael A. Ramsey	1645 / 1003	3.92
32	426 / 31.4	Mark E. Gray & Roberta J. Reed	1301 / 788	1.32
33	426 / 31.5	Timothy V. Gray	1257 / 1211	1.33
34	426 / 31.6	Timothy V. Gray	1265 / 785	0.30
35	426 / 31	Mark A. & Janet H. Benincosa	1054 / 401	10.41
36	426 / 31.3	Steven A. McClung	1629 / 183	1.58
37	426 / 34.6	Daniel & Paul Bright	1474 / 624	3.76
38	426 / 34.5	Allen D. & Vida J. Roy	1343 / 769	2.92
39	426 / 34.7	Allen D. & Vida J. Roy	1343 / 769	2.82
40	426 / 12.1	Derek & Jennifer Cutlip	1393 / 456	7.07
41	426 / 12	Annette J. Cobun	1496 / 37	74.90
42	2015 / 49	Judith A. & Robert T. Carr, III	1229 / 992	0.31
43	2015 / 48	Nancy K. Stemple	1357 / 398	0.40

No.	TM / Par	Owner	Bk / Pg	Ac.
44	2015 / 47	Travis S. Yost	1671 / 817	0.31
45	2015 / 46	Stephanie & Garry W. Hedrick, Sr.	1376 / 126	0.28
46	2015 / 45	Brenda S. Cool	1474 / 485	0.32
47	2015 / 44	Miracle Properties, LLC	1463 / 1257	0.27
48	2015 / 43	Stephen J. Wood	1416 / 814	0.25
49	2015 / 42	Matthew M. & Lindsay D. Cather-Barnes	1527 / 1116	0.25
50	2015 / 41	Annette J. Cobun	1496 / 37	0.26
51	2015 / 40	Addie J. Gabriel	1375 / 341	0.31
52	2015 / 22	Jonathan A. & Laurel L. Hill	1621 / 874	0.22
53	2015 / 20	Sharron R. & Nicole R. Elliott	1405 / 34	0.22
54	2015 / 19	Vicki L. Stickel	1618 / 1309	0.23
55	2015 / 18	Sharron R. & Nicole R. Elliott	1319 / 652	0.22
56	2015 / 17	James M. & Crystal L. Gizzi	1419 / 1201	0.23
57	2015 / 16	Caleb & Stephanie Childers	1639 / 1310	0.22
58	2015 / 15	Richard C. Casto	1557 / 588	0.23
59	2015 / 14	Hope Haught	1578 / 472	0.26
60	2015 / 13	Rose M. Kroll	1223 / 130	0.72
61	2015 / 12	Paul J. & Lynn M. Dempsey	1245 / 403	0.28
62	2015 / 11	Laura E. Clark	1434 / 234	0.27
63	2015 / 10	James T. & Atha V. Matheny	1306 / 155	0.30
64	2015 / 9	Thomas K. Barratt, et al	1670 / 412	0.26
65	2015 / 8	Michael B. & Maria L. Ammons	1364 / 386	0.33
66	2015 / 7	Nathan & Carrie Jo Rhoades	1630 / 108	0.26
67	2015 / 6	Jennifer A. Wright & David E. Bush Jr.	1496 / 1040	0.29
68	2015 / 5	Joseph L. & Erica D. Reed	1358 / 1142	0.24
69	2015 / 4	Bryan L. & Katessa R. Ware	1496 / 500	0.28
70	2015 / 3	Robert J. Morris	1360 / 501	0.26
71	2015 / 2	Peter Mueller & Margot Eakle	1246 / 175	0.32
72	2015 / 1	Robert W. McCulley	1581 / 308	0.26
73	406 / 47.1	James & Matilsa Swenskie	1506 / 1137	1.49
74	406 / 24	Clarence H. Woodford II, et ux	W163 / 1145	160.49
75	406 / 44.1	Christine & Philip D. Wright	1301 / 588	3.01
76	406 / 44	Lawrence & Jane Hill	1301 / 586	3.11
77	406 / 46	Samuel & Mary Ann Danes	1317 / 924	0.22
78	406 / 45	Lidda Danes	767 / 472	0.73
79	406 / 47	Annette J. Cobun	1496 / 37	72.13
80	406 / 23	Roger L. & Teri A. Wilmoth	1332 / 1017	57.94
81	406 / 23.2	Trans Allegheny Interstate Line Company	1544 / 463	7.50
82	406 / 21	Robert K. Lowther	1427 / 565	17.44
83	406 / 21.2	Robert K. & Linda K. Lowther	1025 / 1071	0.90
84	406 / 21.8	Brian K. & Jayme E. Lowther	1506 / 806	49.53
85	406 / 9	John L. & Mary E. Stenger	1580 / 204	309.00
86	406 / 8	Robert J. Stenger	1621 / 54	166.25

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO H44
47 - 033 - 06000
STATE COUNTY PERMIT

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

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

Top: Mount Clare
QUADRANGLE: Btm: West Milford

DISTRICT: Grant / Union

COUNTY: Harrison

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,240' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

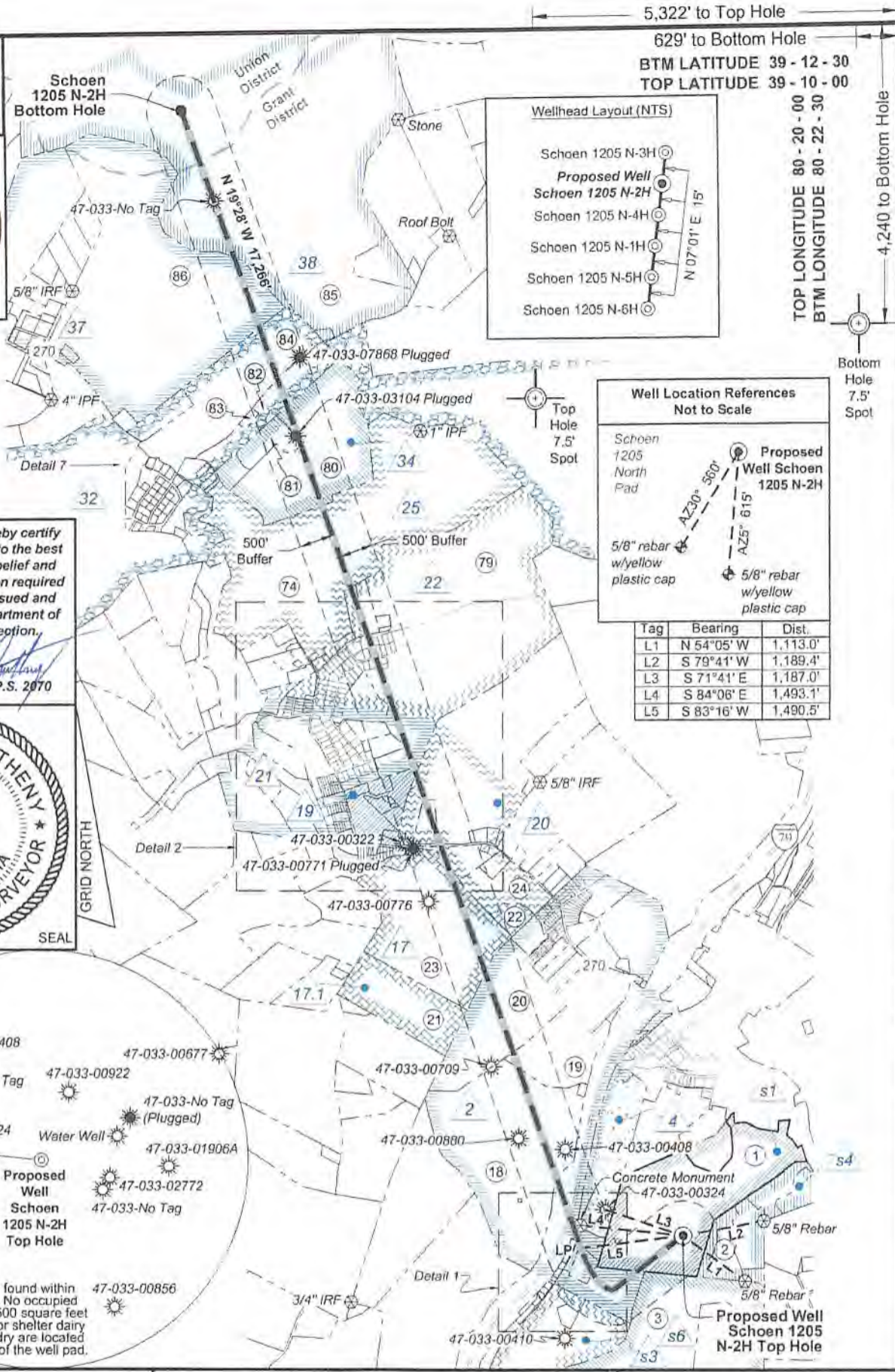
DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

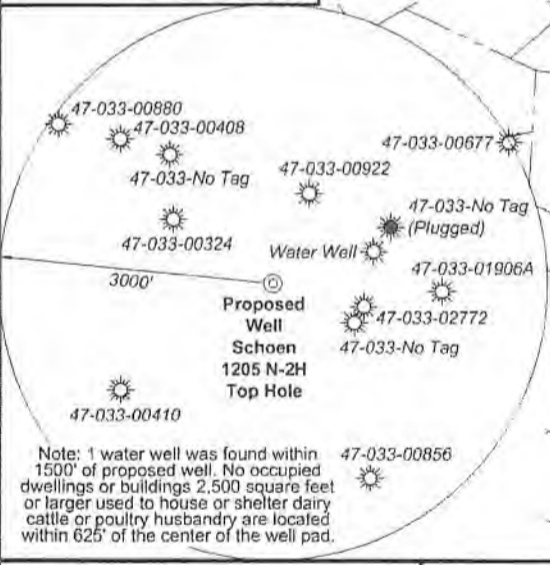
HG Energy II Appalachia, LLC
Well No. Schoen 1205 N-2H

Page 1 of 5



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO
47 - 033 - 6000
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,240' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD

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



ID	Lease
s1	A.B. Post, et al
s3	Emma A. Waggoner, et al
s4	Charlotte C. Gerlach, et al
s6	Susan V. Curry, et al
2	Marcella R. Bond, et vir, et al
4	Gertude Hardaway, et al
17	Lillie Gifford, et al
17.1	Lillie Gifford, et al
19	Georgia A. Barnes
20	Ray T. Swisher, et al
21	A.W. Smith
22	Frank Swisher, et al
25	C.H. Woodford, et ux, et al
32	Porter Maxwell, et ux, et al
34	I. Wilson & Edna M. Swisher
37	W.B. Van Horn, et ux
38	Locie C. Stout, et al
42	O. Glen Kennedy, et al

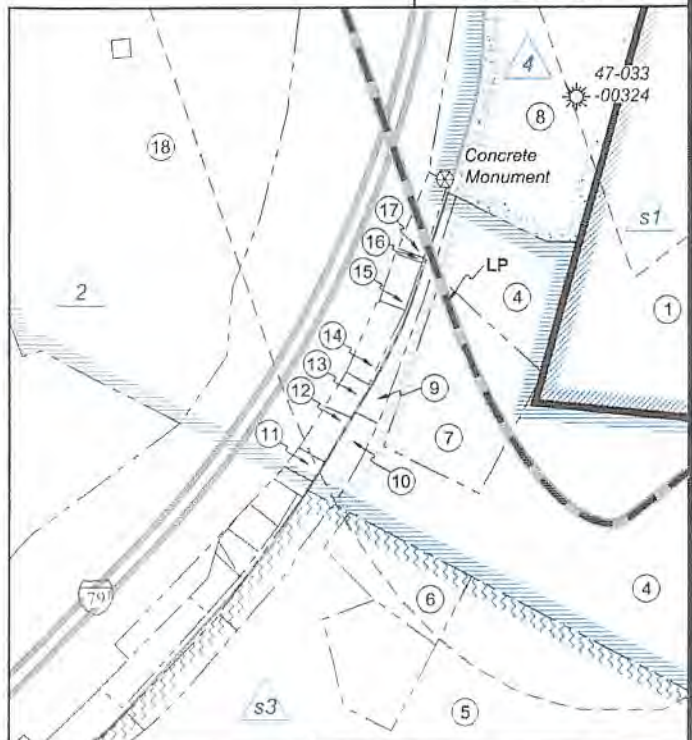
Notes:
Well No. Schoen 1205 N-2H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,776.04'
E: 1,824,137.36'
Landing Point Coordinates
N: 14,218,601.45'
E: 1,822,657.10'
Bottom Hole Coordinates
N: 14,234,875.41'
E: 1,816,906.49'

Legend

- ⊙ Proposed gas well
- ⊕ Well Reference, as noted
- ⊗ Monument, as noted
- ☀ Existing Well, as noted
- ☀ Existing Plugged Well, as noted
- ☀ Digitized Well, as noted
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)
- - - Creek or Drain
- - - Existing Road
- - - Railroad Tracks

Notes:
Well No. Schoen 1205 N-2H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'08.40" Latitude: 39°11'48.08"
Longitude: 80°21'07.59" Longitude: 80°22'38.00"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,891.603m N: 4,338,798.703m
E: 555,998.179m E: 553,794.206m
Plat orientation and corner and well references are
based upon the grid north meridian.
Well location references are based upon the magnetic
meridian.

Detail 1 - Scale: 1" = 500'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO
47 - 033 - 06000
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al LEASE NO: _____ ACREAGE: 78.20

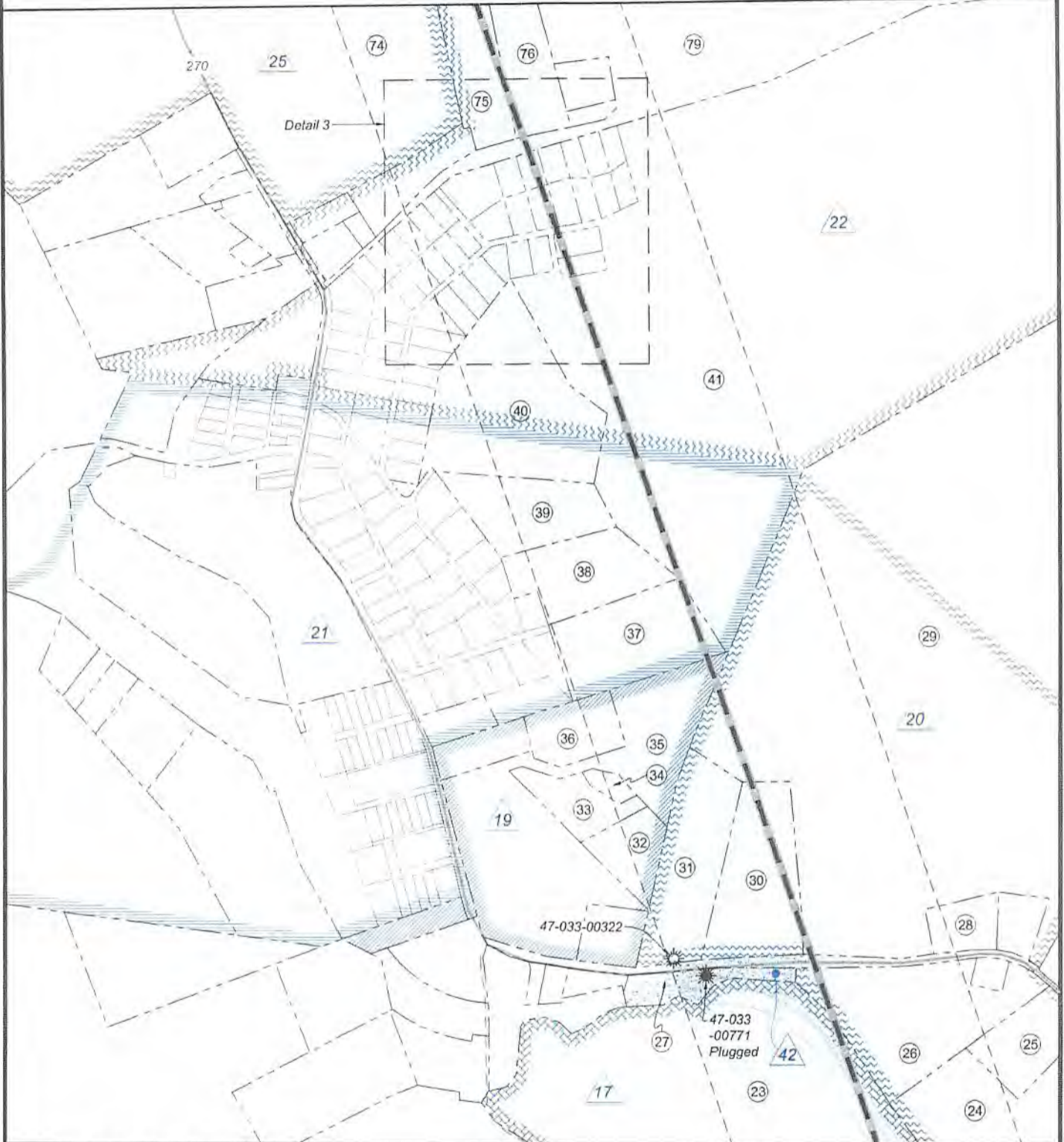
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD 7,240' TVD

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



Detail 2 - Scale: 1" = 500'



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO
47 - 033 - 01000
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford

SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al

COUNTY: Harrison
ACREAGE: 65.00

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: 25,194' MD 7,240' TVD

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



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO
47 - 033 - 00000
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison
ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,194' MD 7,240' TVD

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



No.	TM / Par	Owner	Bk / Pg	Ac.
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2	447 / 3	George & Roseanne Schoen	1253 / 302	10.06
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4	446 / 15	Vera E. & Oral K. Haught	1582 / 896	14.40
5	446 / 28.2	David D. Vanhorn (LE), et al	W177 / 92	42.66
6	446 / 28.5	Robert L. Vanhorn	1352 / 91	1.52
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8	446 / 8	Ruth Ann & Ralph Bradbury	1403 / 610	22.10
9	446 / 15.2	Mildred R. Dean	1060 / 270	0.72
10	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
11	446 / 14	Lisa D. Grogg	1583 / 301	0.14
12	446 / 13	Kimberly Vanscoy	1306 / 5	0.27
13	446 / 13.1	Mack & Thelma Samples	1578 / 761	0.21
14	446 / 11	Mildred Dean	1060 / 270	0.41
15	446 / 10	Karen A. Hayes	1397 / 1135	0.25
16	446 / 7.1	Karen A. Hayes	1397 / 1135	0.03
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18	446 / 7	James R. & Sharon L. Allman	1437 / 165	91.79
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20	426 / 66	Michael W. & Robert D. Rector	1621 / 719	41.75
21	426 / 65	G. Thomas Smith	1277 / 1174	29.79
22	426 / 51	MBW LLC	1539 / 573	3.60
23	426 / 50	G. Thomas Smith	1277 / 1174	66.80
24	426 / 35.9	MBW LLC	1539 / 573	12.77
25	426 / 35.6	CARCAR LLC	1555 / 1001	2.00
26	426 / 35	Bernard D. Bennett II	1423 / 586	5.66
27	426 / 35.11	Brian M. Koortz	1495 / 551	1.05
28	426 / 35.2	George & Amy Dawson	1380 / 505	1.08
29	426 / 35.8	Lost Creek Salvage LLC	1539 / 1088	85.23
30	426 / 35.4	Christopher M. Fogg, et al	1332 / 822	3.93
31	426 / 35.3	Michael A. Ramsey	1645 / 1003	3.92
32	426 / 31.4	Mark E. Gray & Roberta J. Reed	1301 / 788	1.32
33	426 / 31.5	Timothy V. Gray	1257 / 1211	1.33
34	426 / 31.6	Timothy V. Gray	1265 / 785	0.30
35	426 / 31	Mark A. & Janet H. Benincosa	1054 / 401	10.41
36	426 / 31.3	Steven A. McClung	1629 / 183	1.58
37	426 / 34.6	Daniel & Paul Bright	1474 / 624	3.76
38	426 / 34.5	Allen D. & Vida J. Roy	1343 / 769	2.92
39	426 / 34.7	Allen D. & Vida J. Roy	1343 / 769	2.82
40	426 / 12.1	Derek & Jennifer Cullip	1393 / 456	7.07
41	426 / 12	Annette J. Cobun	1496 / 37	74.90
42	2015 / 49	Judith A. & Robert T. Carr, III	1229 / 992	0.31
43	2015 / 48	Nancy K. Stemple	1357 / 398	0.40

No.	TM / Par	Owner	Bk / Pg	Ac.
44	2015 / 47	Travis S. Yost	1671 / 817	0.31
45	2015 / 46	Stephanie & Garry W. Hedrick, Sr.	1376 / 126	0.28
46	2015 / 45	Brenda S. Cool	1474 / 485	0.32
47	2015 / 44	Miracle Properties, LLC	1463 / 1257	0.27
48	2015 / 43	Stephen J. Wood	1416 / 814	0.25
49	2015 / 42	Matthew M. & Lindsay D. Cather-Barnes	1527 / 1116	0.25
50	2015 / 41	Annette J. Cobun	1496 / 37	0.26
51	2015 / 40	Addie J. Gabriel	1375 / 341	0.31
52	2015 / 22	Jonathan A. & Laurel L. Hill	1621 / 874	0.22
53	2015 / 20	Sharron R. & Nicole R. Elliott	1405 / 34	0.22
54	2015 / 19	Vicki L. Stickle	1618 / 1309	0.23
55	2015 / 18	Sharron R. & Nicole R. Elliott	1319 / 652	0.22
56	2015 / 17	James M. & Crystal L. Gizzi	1419 / 1201	0.23
57	2015 / 16	Caleb & Stephanie Childers	1639 / 1310	0.22
58	2015 / 15	Richard C. Casto	1557 / 588	0.23
59	2015 / 14	Hope Haught	1578 / 472	0.26
60	2015 / 13	Rose M. Kroll	1223 / 130	0.72
61	2015 / 12	Paul J. & Lynn M. Dempsey	1245 / 403	0.28
62	2015 / 11	Laura E. Clark	1434 / 234	0.27
63	2015 / 10	James T. & Atha V. Matheny	1306 / 155	0.30
64	2015 / 9	Thomas K. Barratt, et al	1670 / 412	0.26
65	2015 / 8	Michael B. & Maria L. Ammons	1364 / 386	0.33
66	2015 / 7	Nathan & Carrie Jo Rhoades	1630 / 108	0.26
67	2015 / 6	Jennifer A. Wright & David E. Bush Jr.	1496 / 1040	0.29
68	2015 / 5	Joseph L. & Erica D. Reed	1358 / 1142	0.24
69	2015 / 4	Bryan L. & Kalessa R. Ware	1496 / 500	0.28
70	2015 / 3	Robert J. Morris	1360 / 501	0.26
71	2015 / 2	Peter Mueller & Margot Eakle	1246 / 175	0.32
72	2015 / 1	Robert W. McCulley	1581 / 308	0.26
73	406 / 47.1	James & Matilisa Swenske	1506 / 1137	1.49
74	406 / 24	Clarence H. Woodford II, et ux	W163 / 1145	160.49
75	406 / 44.1	Christine & Philip D. Wright	1301 / 588	3.01
76	406 / 44	Lawrence & Jane Hill	1301 / 586	3.11
77	406 / 46	Samuel & Mary Ann Danes	1317 / 924	0.22
78	406 / 45	Lidda Danes	767 / 472	0.73
79	406 / 47	Annette J. Cobun	1496 / 37	72.13
80	406 / 23	Roger L. & Teri A. Wilmoth	1332 / 1017	57.94
81	406 / 23.2	Trans Allegheny Interstate Line Company	1544 / 463	7.50
82	406 / 21	Robert K. Lowther	1427 / 565	17.44
83	406 / 21.2	Robert K. & Linda K. Lowther	1025 / 1071	0.90
84	406 / 21.8	Brian K. & Jayme E. Lowther	1506 / 806	49.53
85	406 / 9	John L. & Mary E. Stenger	1580 / 204	309.00
86	406 / 8	Robert J. Stenger	1621 / 54	166.25

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 N-2H 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

DATE: November 13 2020
OPERATOR'S WELL NO. Schoen 1205 N-2H
API WELL NO
47 - 033 - 06000
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

Top: Mount Clare
QUADRANGLE: Btm: West Milford
COUNTY: Harrison

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: ACREAGE: 78.20

PROPOSED WORK: DRILL CONVERT DRILL 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: 7,240' TVD
25,194' MD

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

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WW-6A1
(5/13)

Operator's Well No. Schoen 1205 N-2H

**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
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****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 _____

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Environmental Protection

HG Energy II Appalachia, LLC - Schoen 1205 N-2H Lease Chains

1205 Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
s1	LC074399	12-0447-0001-0000 12-0447-0002-0000	Q100514000	A. B. POST, WIDOWER; P. S. ROBEY AND WILLA ROBEY, EACH IN HIS OWN RIGHT AS HUSBAND AND WIFE; ELLA LOUISE MAXWELL AND ISAAC H. MAXWELL, HER HUSBAND; FRANCES AND GEORGE B. VIEWEG, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	900	269
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				2	LC066976	12-0446-0007-000 et al	Q100894000	MARCELLA R. BOND AND H. D. BOND, HER HUSBAND; S. ERLow DAVIS AND ANTHA DAVIS, HIS WIFE; HUGH C. DAVIS AND MARTHA DAVIS, HIS WIFE; GEORGIA A. BARNES, WIDOW; ALTHEA J. RANDOLPH, WIDOW; JANE D. POST AND JACOB S. POST, HER HUSBAND; ROXIE VEITH, SINGLE; JOHN A. VEITH, SINGLE; HALLIS VEITH, SINGLE; GRACE VEITH, SINGLE; JESSIE S. DAVIS, WIDOW; JOHN B. GRUMBEN, WIDOWER; JOHN D. PICKENS AND HELEN N. PICKENS, HIS WIFE; LOUISE B. BELCHER AND EARL J. BELCHER, HER HUSBAND; LEWIS E. DAVIS AND LENORE DAVIS, HIS WIFE; LETTA M. BOND, SINGLE; PAUL V. BOND AND EVALEEN K. BOND, HIS WIFE; EVERETT O. DAVIS AND RUTH M. DAVIS, HIS WIFE; G. M. BASSEL AND MAUDE S. BASSEL, HIS WIFE; CLETT MOUNT AND HELEN MOUNT, HIS WIFE
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903					179
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136					250
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58					362
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522					33
DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524					491
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543					1235
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601					581
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621					1295

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17	LC066772	12-0426-0050-0000 12-0426-0051-0000	Q100649000	LILLIE GIFFORD, WILBUR STOUT, AND MABEL STOUT	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	779	43
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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
				42	LC075001	p/o 12-0426-0035-0011	Q100717000	ORISON GLEN KENNEDY AND BETTY J. KENNEDY, HIS WIFE; FRANCES M. KENNEDY, WIDOW; B. RAY KENNEDY AND BETTY S. KENNEDY, HIS WIFE; THELMA L. SLEETH AND PAUL E. SLEETH, HER HUSBAND; AND LUCILLE SMITH AND LLOYD SMITH, HER HUSBAND
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136					250
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58					362
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522					33
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543					1235
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576					125
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584					942
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
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
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621					1295
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621					1295
20	LC066587	12-0426-0035-0001 12-0426-0035-0002 12-0426-0035-0003 12-0426-0035-0004 p/o 12-0426-0035-0008	Q100638000					RAY SWISHER
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
19	LC066510	12-0426-0031-0000 12-0426-0031-0001 12-0426-0031-0002 12-0426-0031-0003	Q100926000	GEORGIA A. BARNES, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	975	610
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
				DOMINION ENERGY TRANSMISSION, 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
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295

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		12-0426-0031-0004 12-0426-0031-0005 12-0426-0031-0006		CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1584 1600 WVSOS 1601 1621	942 692 581 1295
21	LC021475	12-0426-0020-0000 thru 12-0426-0026-0000 p/o 12-0426-0010-0000 p/o 12-0426-0012-0000 p/o 12-0426-0011-0001 12-0426-0034-0001 12-0426-0034-0003 thru 12-0426-0034-0007 12-2005-0001-0000 thru 12-2005-0015-0000 12-2005-0024-0000 thru 12-2005-0027-0000 12-2005-0033-0000 12-2005-0036-0000 thru 12-2005-0046-0000 12-2005-0048-0000 12-2005-0050-0000 thru 12-2005-0056-0000 12-2005-0061-0000 thru 12-2005-0065-0000 12-2005-0067-0000 thru 12-2005-0071-0000 20-2015-0024-0000 thru 20-2015-0039-0000 20-2015-0052-0000 thru 20-2015-0064-0000 20-2015-0064-0000 thru 20-2015-0096-0000	Q100927000	A. W. SMITH TRI-STATE GAS COMPANY, WHEELING NATURAL GAS COMPANY AND THE MANUFACTURERS LIGHT AND HEAT COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	TRI-STATE GAS COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 ASSIGNMENT CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM FARMOUT AGREEMENT FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	139 202 903 1136 51 58 1522 1524 1543 1576 1584 1600 WVSOS 1601 1621	458 375 179 250 795 362 33 491 1235 125 942 692 581 1295
22	LC066951	12-0406-0040-0000 12-0406-0041-0000 12-0406-0042-0000 12-0406-0047-0001 12-0406-0044-0000 12-0406-0044-0001 12-0406-0045-0001 12-0406-0046-0001 12-0406-0047-0001 12-0426-0012-0000 p/o 12-0426-0012-0001 12-2005-0004-0000 12-2105-0001-0000 thru 12-2105-0024-0000 12-2105-0026-0000 thru 12-2105-0037-0000 12-2105-0039-0000 thru 12-2105-0054-0000	Q101110000	E. S. SWISHER AND NETTIE M. SWISHER, HIS WIFE, ELLA MCKEEVER, WIDOW, MARY M. BUSH AND EARLE BUSH, HER HUSBAND, JESSIE SWISHER, A WIDOW, J. HUGH SWISHER AND ALICE SWISHER, HIS WIFE, FRANK SWISHER, SINGLE, HIS WIFE, BEULAH S. SWISHER, SINGLE, AND ROBERT A. SWISHER, SINGLE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM OF FARMOUT AGREEMENT FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	952 903 1136 51 58 1522 1524 1543 1576 1584 1600 WVSOS 1601 1621	156 179 250 795 362 33 491 1235 125 942 692 581 1295
				C. H. WOODFORD AND CONSTANCE WOODFORD, HIS WIFE; AND LUCY M. WOODFORD, WIDOW HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION (WHOSE CORPORATE NAME WAS FORMERLY HOPE NATURAL GAS COMPANY) CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE	952 903 1136 51 58	156 179 250 795 362

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25	LC068455	12-0406-0024-0000 12-0406-0024-0001 12-0406-0024-0001	Q100812000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
34	LC068610	12-0406-0023-0000 12-0406-0023-0001 12-0406-0023-0002	Q100814000	I. WILSON SWISHER AND EDNA M. SWISHER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	823	162
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1138	509
				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 OF FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
32	LC052223	12-0406-0021-0000 12-0406-0021-0001 12-0406-0021-0002 12-0406-0021-0003 12-0406-0021-0004 12-0406-0021-0005 12-0406-0021-0006 12-0406-0021-0007 12-0406-0021-0008 12-0406-0025-0000 12-0406-0028-0000 and 12-406A-0001-0000 through 12-406A-0041-0000	Q101129000	PORTER MAXWELL AND BERTHA B. MAXWELL, HUSBAND AND WIFE; AND W. BRENT MAXWELL AND LILLIE J. MAXWELL, HUSBAND AND WIFE	JOHN C. CHIDESTER	NOT LESS THAN 1/8	175	450
				JOHN CHIDESTER	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	UNRECORDED	
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	236	111
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	504	353
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
		12-0406-0005-0000 12-0406-0006-0000		W. B. VAN HORN AND ELSIE M. VAN HORN, HIS WIFE	EASTERN OIL COMPANY	NOT LESS THAN 1/8	141	319
				EASTERN OIL COMPANY	WEST VIRGINIA CENTRAL GAS COMPANY	ASSIGNMENT	140	155

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37	LC095044	12-0406-0007-0000	Q100253000	WEST VIRGINIA CENTRAL GAS COMPANY	CONSOLIDATED NATURAL GAS COMPANIES OF WEST VIRGINIA	DEED	151	42
		12-0406-0007-0001		WEST VIRGINIA CENTRAL GAS COMPANY	CUMBERLAND AND ALLEGHENY GAS COMPANY	DEED	357	198
		12-0406-0007-0002		CUMBERLAND AND ALLEGHENY GAS COMPANY	COLUMBIA GAS TRANSMISSION CORPORATION	QUITCLAIM DEED	990	656
		12-0406-0007-0003		COLUMBIA GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	DEED	1046	1003
		12-0406-0007-0004		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
		12-0406-0007-0005		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		12-0406-0007-0006		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		12-0406-0007-0007		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
		12-0406-0007-0008		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
		12-0406-0007-0009		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
		12-0406-0007-0010		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
		12-0406-0007-0011		DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
		12-0406-0007-0012		CNX GAS COMPANY LLC	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		12-0406-0007-0013		DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
		12-0406-0007-0014		NOBLE ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		12-0406-0007-0015		HG ENERGY II APPALACHIA, LLC	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
		12-0406-0007-0016		DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
		12-0406-0007-0017		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
		12-0406-0007-0018		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
		12-0406-0007-0019		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
		12-0406-0007-0020		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
		12-0406-0008-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
		12-0406-0008-0001		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
38	LC071331	12-0406-0009-0000	Q100509000	LOCIE C. STOUT, WIDOW; MARY STOUT WOLFE, WIDOW; AND IVA H. STOUT, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	992	522
		12-0406-0009-0001		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
		12-0406-0009-0002		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
		12-0386-0109-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
		12-0386-0110-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
		12-0386-0111-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	ASSIGNMENT	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	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220

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

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December 30, 2020

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

RE: Drilling Under Roads – Schoen 1205 N-2H
Grant District, Harrison County
West Virginia

Dear Ms. Kees -

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

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

Very truly yours,

Diane White

Diane C. White

Enclosures

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OFFICE OF OIL AND GAS
STATE OF WEST VIRGINIA

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

Date of Notice Certification: 12/30/2020

API No. 47- _____ - _____

Operator's Well No. Schoen 1205 N-2H

Well Pad Name: Schoen Well Pad

Notice has been given:

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

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

UTM NAD 83 Easting: 555998.2
 Northing: 4333891.6
 Public Road Access: McWhorter Road
 Generally used farm name: Schoen

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

OOG OFFICE USE ONLY

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

Required Attachments:

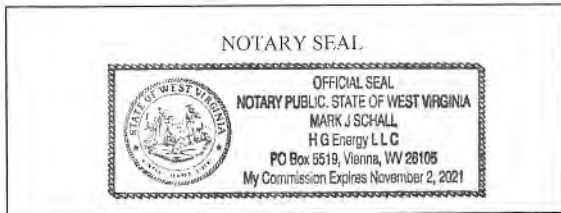
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

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Certification of Notice is hereby given:

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:	<u>HG II Appalachia, LLC</u>	Address:	<u>5260 Dupont Road</u>
By:	<u>Diane White <i>Diane White</i></u>		<u>Parkersburg, WV 26101</u>
Its:	<u>Agent</u>	Facsimile:	<u>304-863-3172</u>
Telephone:	<u>304-420-1119</u>	Email:	<u>dwhite@hgenergyllc.com</u>



Subscribed and sworn before me this 30th day of December, 2020.

Mark J Schall Notary Public

My Commission Expires 11/2/2021

Oil and Gas Privacy Notice:

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

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WV DEPARTMENT OF
Environmental Protection

WW-6A
(9-13)

4703306000
API NO. 47-
OPERATOR WELL NO. Schoen 1205 N-1H to S-10H
Well Pad Name: Schoen 1205

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

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

Date of Notice: 11.23.20 **Date Permit Application Filed:** 11/25/20

Notice of:

- PERMIT FOR ANY WELL WORK CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)
Name: George & Rosanne Schoen
Address: PO Box 158
Lost Creek, WV 26385

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Thomas Young
Address: 4856 SW 95th
Gainesville, FL 32608

Name: Joseph Queen
Address: P. O. Box 531
Lost Creek, WV 26385

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Vera & Oral Haught
Address: 400 Justice Avenue
Logan, WV 25601

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: Dominion Energy Transmission - Attn: Ronald Waldren
Address: 925 White Oaks Blvd
Bridgeport, WV 26330

*Please attach additional forms if necessary

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/oil-and-gas/pages/default.aspx.

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Office of the Secretary
JAN 05 2021

Well Location Restrictions

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

WV Department of
Environmental
Protection

WW-6A
(8-13)

4703306000
API NO. 47-
OPERATOR WELL NO. Schoen 1205 N-1H to S-10H
Well Pad Name: Schoen 1205

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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.**

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

API NO. 47- _____

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

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

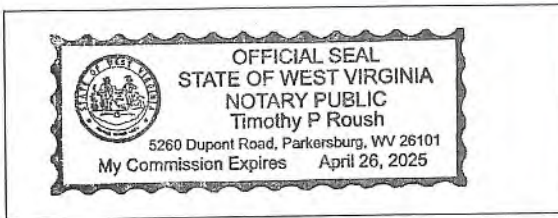
Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 1st day of September, 2020.

[Signature] Notary Public

My Commission Expires 4/26/2025

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WV Department of
Environmental Protection

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

Schoen 1205 S-7H

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

Marilyn Gaines ✓
1191 McWhorter Road
Lost Creek, WV 26385

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

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

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

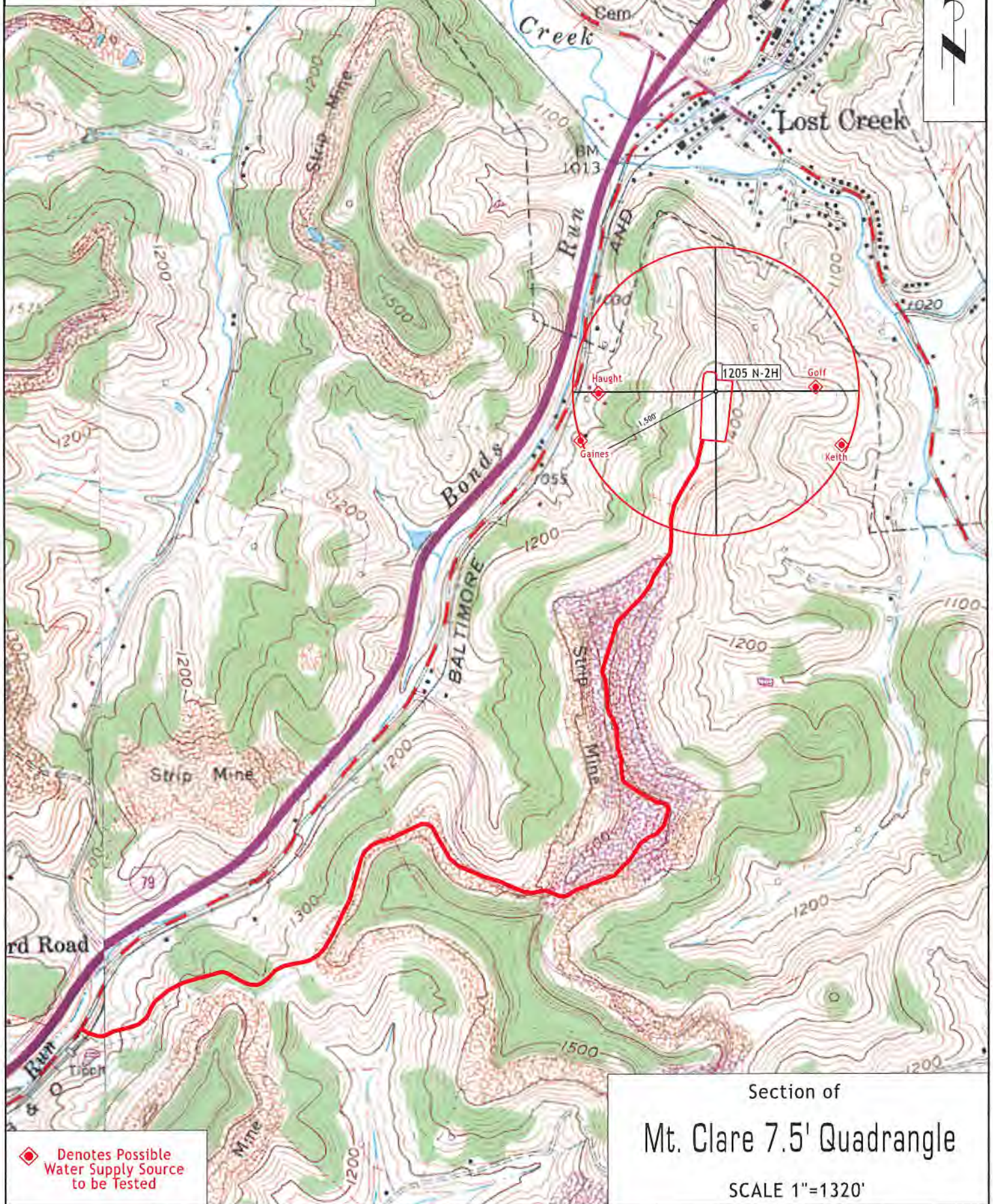
Charles and Franklin Sutton ✓
801 Worthington Drive
Bridgeport, WV 26330

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WV Department of
Environmental Protection

SUBJECT WELL
SCHOEN 1205 N-2H



◆ Denotes Possible
Water Supply Source
to be Tested

Section of
Mt. Clare 7.5' Quadrangle

SCALE 1"=1320'

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

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

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

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

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

Name: _____
Address: _____
JAN 05 2021

Office of Oil and Gas
WV Department of
Environmental Protection

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 555986.976
County: Harrison Northing: 4333800.330
District: Grant Public Road Access: McWhorter Road / SR19
Quadrangle: Mount Clare Generally used farm name: Schoen
Watershed: Middle West Fork Creek

This Notice Shall Include:

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

Notice is hereby given by:

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

Authorized Representative: Diane White
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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

WW-6A5
(1/12)

Operator Well No. 4703306000
Revised 12/05/14 (10.9-16H)

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 12/29/2020 **Date Permit Application Filed:** 01/11/2021

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

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

Name: _____
Address: _____

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WV Department of
Environmental Protection

Notice is hereby given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>555986.976</u>
County:	<u>Harrison</u>		Northing:	<u>4333800.330</u>
District:	<u>Grant</u>	Public Road Access:	<u>McWhorter Road / SR 19</u>	
Quadrangle:	<u>Mount Clare 7.5'</u>	Generally used farm name:	<u>Schoen</u>	
Watershed:	<u>Middle West Fork Creek</u>			

This Notice Shall Include:

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

Well Operator: HG Energy II Appalachia, LLC
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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



4703306000

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

September 3, 2020

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

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JAN 05 2021

Subject: DOH Permit for the Schoen 1205 Pad, Harrison County
Schoen N-2H Well Site

WV Department of
Environmental Protection

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 Duellley
HG Energy LLC
CH, OM, D-4
File

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

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

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JAN 05 2021
WV Department of
Environmental Protection

4703306000

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

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

GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

CONSTRUCTION SEQUENCE

- 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.
- 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 rrip, 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.



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

Estimated Gross Material Volume (CY)			
Final Development - Gravel Option	Cut	Fill	Stockpile
1205 Well Pad	11,620	10,270	480
1205 Well Pad Access Road	2,710	12,230	475
1205 Well Pad Staging Area	340	330	10
Totals	24,770	23,270	1,435
Est. Swell Factor (20%)			287
Total Site Balance			1,722
Bliggett Topsoil (Limit of Earthwork)			3,100
Est. Swell Factor (20%)			1,820
Est. Topsoil (Stockpile Volume & Loose CY)			11,031
Minimum Total Stockpile Capacity Required (20)			12,751

Notes:
1. Material balance is not given as net quantities (cut - 2. Topsoil req. will vary based on final site design which 3. Material balance and aggregate quantities listed are estimates and may not be representative of actual quantities. 4. Fill volume does not reflect contractor pile volumes.

Estimated Gravel Quantities				
Gravel Use - Location	Well Pad Access Road	Well Pad Staging Area	Gravel Stockpile	TOTAL
2' Deep (1) (20% Swell Factor)	12,000	3,000	20,400	35,400
Estimated Well Pad & Filter Stock Length (LF)	1,310	240	1,480	2,990
Estimated Well Pad & Filter Stock Length (LF)				900
Estimated Well Pad & Filter Stock Length (LF)				110
TOTAL Estimated & Compact Filter Stock Length (LF)				1,110
TOTAL Estimated & Compact Filter Stock Length (LF)				12,290
Estimated Well Pad Access Road Limit of Disturbance (Acre)				1.291
Estimated Well Pad Access Road Limit of Disturbance (Acre)				0.299
TOTAL Estimated Land not Disturbed (Acre)				29.412
Well Pad Peak Construction Elevation (FE)				140.00
Well Pad Subbase Elevation (Proposed) (FE)				140.00
Well Area Surface Elevation (FE)				130.00

WELL #	LAT.	LONG.
N-3H	N 39.1524686	W 80.3518727
N-2H	N 39.1524777	W 80.3518782
N-4H	N 39.1523867	W 80.3518638
N-1H	N 39.1523457	W 80.3518693
N-5H	N 39.1523047	W 80.3518949
S-6H	N 39.1516447	W 80.3520488
S-7H	N 39.1516039	W 80.3520594
S-10H	N 39.1515930	W 80.3520622
S-8H	N 39.1515222	W 80.3520860
S-9H	N 39.1514813	W 80.3520758

WELL ELEVATIONS 1407.25
UTM83-17F

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

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LCO
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	25.9086	1.399
CHARLES R. SUTTON	17-12-0446-0048-0000	86.5040	3.008
CHARLES R. SUTTON	17-12-0466-0019-0000	82.7573	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	73.2754	6.570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2564	7.792
TOTAL LIMIT OF DISTURBANCE			29.813 AC

APPROVED
WVDEP OOG
12/1/2020

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REVISION	DATE	DESCRIPTION
1	08/17/2020	QUANTITY UPDATE AND CHANNEL MODIFICATIONS
2	08/27/2020	CLIENT REVISIONS
3	09/16/2020	REVISED PER WVDEP COMMENTS
4	10/29/2020	REVISED PER CLIENT COMMENTS
5	11/11/2020	CLIENT WELL REVISIONS
6	11/20/2020	REVISED PER WVDEP COMMENTS



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

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

APPROVED	MEP 03/31/2020	
CHECKED	CAC 03/30/2020	
DRAWN	MFR 03/24/2020	Penn E&R Environmental & Remediation, Inc.
PROJECT No.	4000-PA007916	
DRAWING NUMBER	PA007916-001	111 RYAN COURT, PITTSBURGH, PA 15205 412-722-1222
SHEET	1	

WEST VIRGINIA **811** CALL BEFORE YOU DIG! Dial 811 or 800.245.4848
Miss Valley of West Virginia

SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MAINTAINING AND REPAIRING AS NECESSARY TO ENSURE CONTINUAL SERVICE.

C:\PROJECT FILES\4000-PA007916 HG 1205 DRAININGS\PA007916 HG 1205 PAD TITLE SHEET.DWG, 11/20/2020 3:02 PM

470330600

APPROVED WV DEP OOG 12/1/2020

WELL #	LAT.	LONG.
N-3H	N 39.1524885	W 80.3518777
N-3H	N 39.1524277	W 80.3518782
N-4H	N 39.1523267	W 80.3518836
N-1H	N 39.1523457	W 80.3518893
N-5H	N 39.1523347	W 80.3518940
S-6H	N 39.1514447	W 80.3520486
S-7H	N 39.1510038	W 80.3520054
S-10H	N 39.1515630	W 80.3520022
S-8H	N 39.1515222	W 80.3520000
S-9H	N 39.1514813	W 80.3520358

WELL ELEVATIONS 1407.25
1406.176

LEGEND

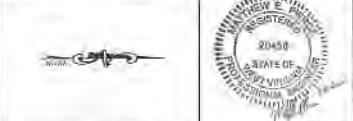
- PROPOSED ROCK CHECK DAM
- PROPOSED TYPICAL APRON
- PROPOSED ACCESS ROAD/PAV'D DRIVEWAY
- PROPOSED CURBOUT FILL IN ROCK 6" UNLESS OTHERWISE NOTED
- PROPOSED STAKED DRAINAGE FILTER ROCK 6"
- PROPOSED ORANGE CONSTRUCTION FENCE
- APPROXIMATE LIMITS OF DISTURBANCE
- APPROXIMATE EXISTING LINE
- APPROXIMATE PROPERTY LINE
- EXISTING INDEX CURBOUT
- EXISTING UNIMPAVED CONDUIT
- PROPOSED SUBGRADE INDEX CONTROLS
- PROPOSED SURFACE INTERMEDIATE CONTOUR
- EXISTING ACCESS ROAD
- EXISTING TYPICAL UTILITY LINE
- EXISTING GAS LINE
- PROPOSED GAS LINE (BY OTHERS)
- SECTION (SEE SHEET A)
- EXISTING METALS
- PROPOSED FILL WHICH SEE FILL BENCH DETAIL
- PROPOSED EROSION CONTROL BLANKET

- WEST VIRGINIA GENERAL NOTES:**
- ALL PROPOSED ELEVATIONS SHOWN ON PLAN SHEETS REFLECT PROPOSED SUBGRADE ELEVATIONS.
 - BEFORE THE SHEET WITH THE CONSTRUCTION NOTES AND DETAILS.
 - CONTRACTOR SHALL CONTACT WEST VIRGINIA UTILITIES PROTECTION SERVICES (WVU) A MINIMUM OF 2 WEEKS PRIOR TO EXCAVATION WORK. UTILITIES MUST BE IDENTIFIED AND LOCATED OR PROTECTED BY CONTRACTOR PRIOR TO BEGINNING WORK AT THE SITE.
 - ALL SITES SHALL BE CONSTRUCTED IN ACCORDANCE WITH WELL DRILLING PERMITS. CONTRACTOR RESPONSIBLE TO OBTAIN ALL OTHER NECESSARY PERMITS/APPROVALS. PERMITS TO EXCAVATE SITES INCLUDING BUT NOT LIMITED TO FEDERAL, STATE AND LOCAL REGULATIONS.
 - NO DETERMINATION OR SOIL STABILITY ANALYSIS WAS PERFORMED FOR THIS SITE. CONTRACTOR IS RESPONSIBLE TO CONDUCT PROPER TIE AND BONDING ANALYSES BASED ON FIELD CONDITIONS TO PREPARE SPECIFICATIONS FOR ALL EXCAVATION. FIELD STABILIZATION FROM EXISTING TO PROPOSED CONSTRUCTION SHALL BE PERFORMED AS PERMANENT MEASURES FROM CONSTRUCTION.
 - LANDSLIDE DESIGN AND SETTLEMENT CONTROL SHALL PRIOR TO EXCAVATION. SITE CONSTRUCTION SHALL FOLLOW WEST VIRGINIA DESIGN AND SETTLEMENT CONTROL MANUAL, DATED MAY 2012.
 - CLEAR AND GRASS WORK AREA, REMOVE AND STORABLE AVAILABLE TOPSOIL FROM LIMIT OF DISTURBANCE TO A LOCATION DESIGNATED BY HG ENERGY II APPALACHIA, LLC.
 - NO EXCAVATION FILL SHALL BE PLACED ON PROPOSED MATERIAL. FILL MATERIAL SHALL BE FREE OF ORGANIC LAMINAR ROOTS, TREE SOIL OR OTHER ORGANIC MATERIAL.
 - EXCAVATION SHALL BE CONFINED TO A MAXIMUM SLOPE OF 2:1 UNLESS OTHERWISE NOTED.
 - FILL MATERIAL SHALL BE PLACED IN LIFTS OR LAYERS OVER THE LENGTH OF THE FILL. LIFT THICKNESS OF THE SOIL SHALL BE AS THIN AS THE DETAILED MAXIMUM EXCAVATED MATERIAL. MAXIMUM TYPICAL 4-14 INCHES DEPTH. THE SOIL OF ROCK LIFTS SHALL NOT EXCEED 30 INCHES. CONTRACTOR SHALL BE ADVISED BY CONSTRUCTION COMPANY SHEETS FOR THE BOLLER. DEPENDENCE ON MATERIAL, WITH COMPACTOR TO VIBRATE MATERIAL TO THE DEPTH OF THE EXCAVATION. MATERIAL COMPACTOR EFFORT SHALL NOT EXCEED OPTIMUM MOISTURE LIMITS. EACH LIFT SHALL BE COMPACTED TO A COMPACTION PROCTOR DENSITY OF AT LEAST 95% BEFORE THE NEXT LIFT. 30' TESTING SHALL BE PERFORMED AT A RATE OF 3" PER LIFT.
 - CONTRACTOR SHALL CONDUCT ACCESS ROAD IN ACCORDANCE WITH DETAILS. MATERIAL, ADDITIONAL COVER MATERIAL, PLACEMENT REQUIRED IN AREA OF UTILITY LINE.
 - CONTRACTOR SHALL DEVELOP MATERIAL MANAGEMENT (DESIGN, CONSTRUCTION, STOCKPILE, GRABT, SOILING) WITH HG ENERGY II APPALACHIA, LLC PRIOR TO MOBILIZATION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER EROSION AND SEDIMENT CONTROL BOTH ON SITE AND OFF SITE.
 - ALL EXCAVATION CONTRACTORS SHALL BE RESPONSIBLE FOR PROTECTING EXISTING AREAS AND UTILITIES AND THE VEGETATIVE DRAINAGE CONTROL HAS ADAPTED A UNIFORM FLOW CONTROL. ALL AREAS NOT EXCAVATED SHALL BE PROTECTED WITH 24 HOURS OF DETENTION.
 - SEDIMENTATION CONTROL SHALL BE INSTALLED DURING EXCAVATION. A LINE AND MAIL SYSTEM WITH 30% SHALL BE INSTALLED PRIOR TO EXCAVATION AND WATER BENCH SEDIMENTATION CONTROL SHALL BE INSTALLED PRIOR TO EXCAVATION WITH WV REGULATIONS.

- REFERENCE:**
- PROPERTY BOUNDARIES & OWNERS INFORMATION OBTAINED BY HV PRECEDENT SURVEY WORK NUMBER/PAD# 18-2253-DRAINAGES-PAD079116-1205 PAD REV 6/20/2020, HAS 8M.
 - LEAS SURVEY OBTAINED FROM ALLIANCE SURVEYS ON 07/18/2020.
 - EXISTING STREAMS AND WETLANDS DELINEATED BY ENVIRONMENTAL, INC.

REVISION

REVISION	DATE	DESCRIPTION
1	06/17/2020	QUANTITY UPDATE AND CHANNEL MODIFICATIONS
2	06/22/2020	CLIENT REVISIONS
3	10/18/2020	REVISED PER WV DEP COMMENTS
4	10/28/2020	REVISED PER CLIENT COMMENTS
5	11/11/2020	CLIENT WELL REVISIONS
6	11/20/2020	REVISED PER WORK COMMENTS



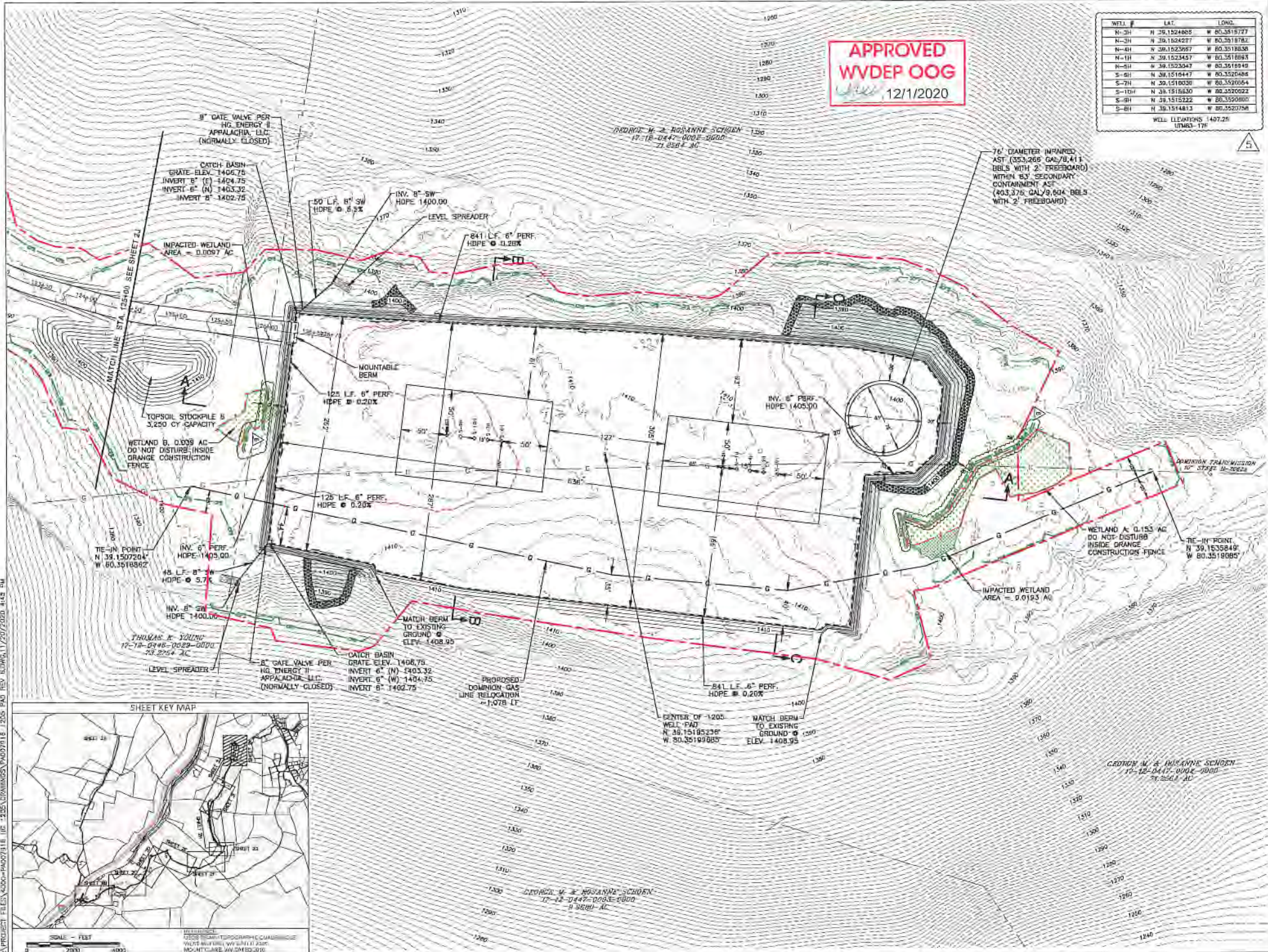
SCALE - FEET
0 50 100 150

SITE DEVELOPMENT PLAN WITH EROSION AND SEDIMENTATION CONTROLS
HG-1205 PAD
GRANT DISTRICT
HARRISON COUNTY, WEST VIRGINIA

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

APPROVED: MEP 03/31/2020
CHECKED: CAC 03/30/2020
DRAWN: MFP 03/24/2020
PROJECT NO.: 4000-14607916
DRAWING NUMBER: PAD079116-001
SHEET 2K

111 RAIN COURT, PITTSBURGH, PA 15205
412-722-1232



PROJECT FILE# 4000-14607916 (C - 205) DRAINAGES-PAD079116-1205 PAD REV 6/20/2020, HAS 8M

SCALE - FEET
0 200 400

WETLANDS
DESIGNATED BY TOPOGRAPHIC CHANNELS
WATER MATERIAL: VV 5/11/11 2:00
MOUNTAIN: VV 5/11/11 2:00