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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, August 27, 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-4H  
47-033-06011-00-00

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, Chief, is written over a white background. The signature is stylized and cursive.

James A. Martin  
Chief

Operator's Well Number: Schoen 1205 N-4H  
Farm Name: George and Roseanne Schoen  
U.S. WELL NUMBER: 47-033-06011-00-00  
Horizontal 6A New Drill  
Date Issued: 8/27/2021

# 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

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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

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](mailto:DEPOOGNotify@wv.gov).

08/27/2021

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

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

2) Operator's Well Number: Schoen 1205 N-4H 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#.

*SDW  
7/22/2021*

8) Proposed Total Vertical Depth: 7240'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23,509'

11) Proposed Horizontal Leg Length: 15,489'

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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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1200'	1200' ✓	40% excess, CTS
Intermediate 1	13 3/8"	NEW	J-55	68	2100'	2100' ✓	40% excess, CTS
Intermediate 2	9 5/8"	NEW	J-55	40	2950'	2950' ✓	40% excess tail, CTS
Production	5 1/2"	NEW	P-110	23	23509'	23509' ✓	20% excess tail, CTS
Tubing							
Liners							

SDW ✓  
7/22/2021

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	24"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
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 1.94
Tubing							
Liners							

PACKERS

Kind:			RECEIVED Office of Oil and Gas
Sizes:			JUL 26 2021
Depths Set:			WV Department of Environmental Protection

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 15,489' lateral length, 23,509' 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 - 15.6 ppg PNE-1 + 3% bwoc CaCl<sub>2</sub> 40% Excess Yield = 1.20, CTS  
Intermediate 1 - "Lead": 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub>0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS  
Intermediate 2 - "Lead": 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub>0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS  
Production - "Lead": 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/bk FP13L + 0.3% bwoc MPA1707at: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/bk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% Excess/Lead Yield=1.19Tail Yield=1.94CTS"

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.

**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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EC-1	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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WW-9  
(4/16)

API Number 47 - 033 - 06011  
Operator's Well No. Schen 1205 N-4H

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 \_\_\_\_\_ )

*SOU*  
*7/22/2021*

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/EOBM, Horizontal - EOBM

-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

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-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*

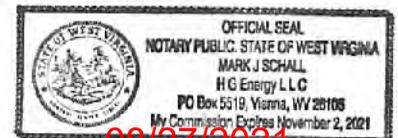
Company Official (Typed Name) Diane White

Company Official Title Agent

Subscribed and sworn before me this 19th day of July, 20 21

*[Signature]* Notary Public

My commission expires 4/2/2021



06/27/2021

# Cuttings Disposal/Site Water

## Cuttings-Haul off Company:

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

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

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

## Disposal Locations:

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

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

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

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

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

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

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

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

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

Brooke County Landfill Permit # SWF-103-07 / WV 0109029  
Rd 2 Box 410  
Colliers, WV 26035  
304-748-0014

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Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185  
Rt 1 Box 156A  
New Martinsville, WV 26035  
304-455-3800

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

Energy Solutions Services, Inc. Permit # R-73006-124  
1560 Bear Creek Road  
Oak Ridge, TN 37830

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

**Water Haul off Companies:**

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

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

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

Nuverra Environmental Solutions  
11942 Veterans Memorial Highway  
Masontown, WV 26542

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

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

**Disposal Locations:**

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

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

Adams #1 (Buckeye Brine, LLC)  
Permit # 34-031-2-7177  
23986 Airport Road  
Coshocton, OH 43812  
740-575-4484  
512-478-6545

CMS of Delaware Inc. DBA CMS Oilfield Serv  
301 Commerce Drive  
Moorestown, NJ 08057

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

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

Equipment Transport  
1 Tyler Court  
Carlisle, PA 17015

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Form WW-9

Operator's Well No. Schoen 1205 N-4H

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	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	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: [Signature]

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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Environmental Protection

Title: Oil & Gas Inspector

Date: 7/22/2021

Field Reviewed?  Yes  No

08/27/2021

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HG Energy II Appalachia, LLC

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Environmental Protection

Title: Oil & Gas Inspector

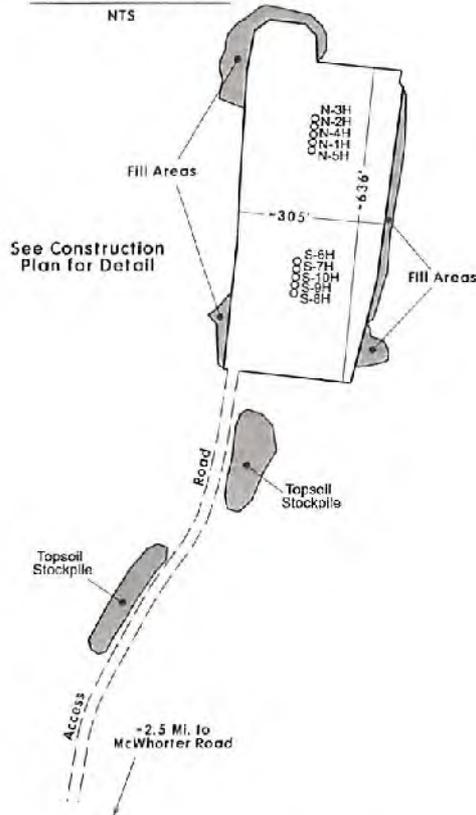
Date: 7/22/2021

Field Reviewed?  Yes  No

# Reclamation Plan For: SCHOEN 1205 PAD

## PAD DETAIL

NTS



### 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 EGS MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH WVDEP RECLAMATION STANDARDS.
- ALL DISTURBED AREAS WILL BE REVEGETATED 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.

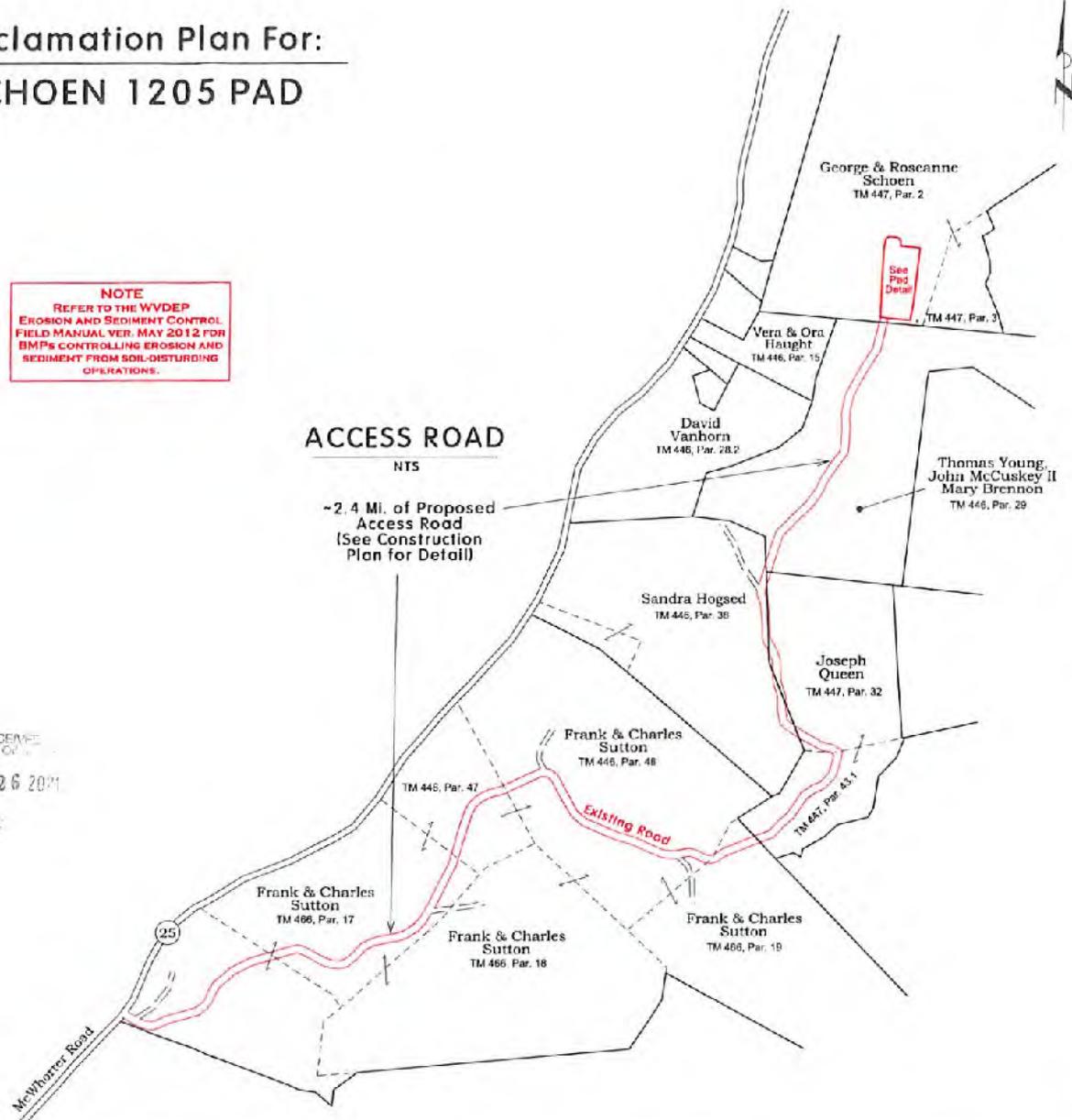
**NOTE**  
 REFER TO THE WVDEP  
 EROSION AND SEDIMENT CONTROL  
 FIELD MANUAL VER. MAY 2012 FOR  
 BMP'S CONTROLLING EROSION AND  
 SEDIMENT FROM SOIL-DISTURBING  
 OPERATIONS.

## ACCESS ROAD

NTS

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

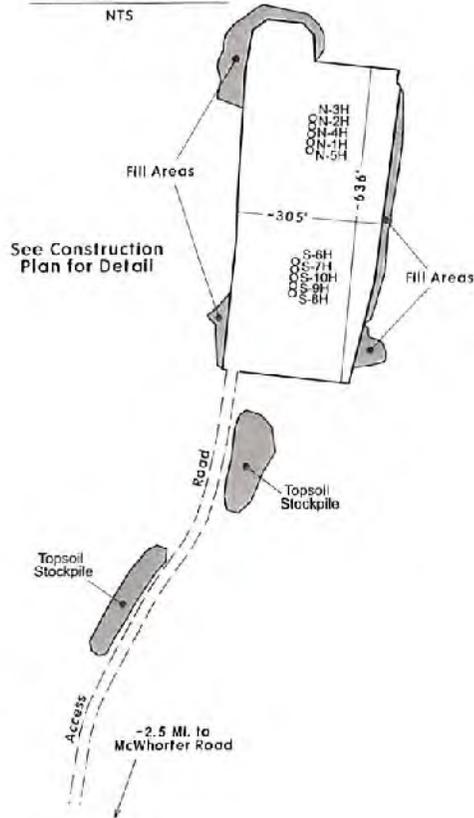
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# Reclamation Plan For: SCHOEN 1205 PAD

## PAD DETAIL

NTS



### Notes:

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- DRAWING NOT TO SCALE.

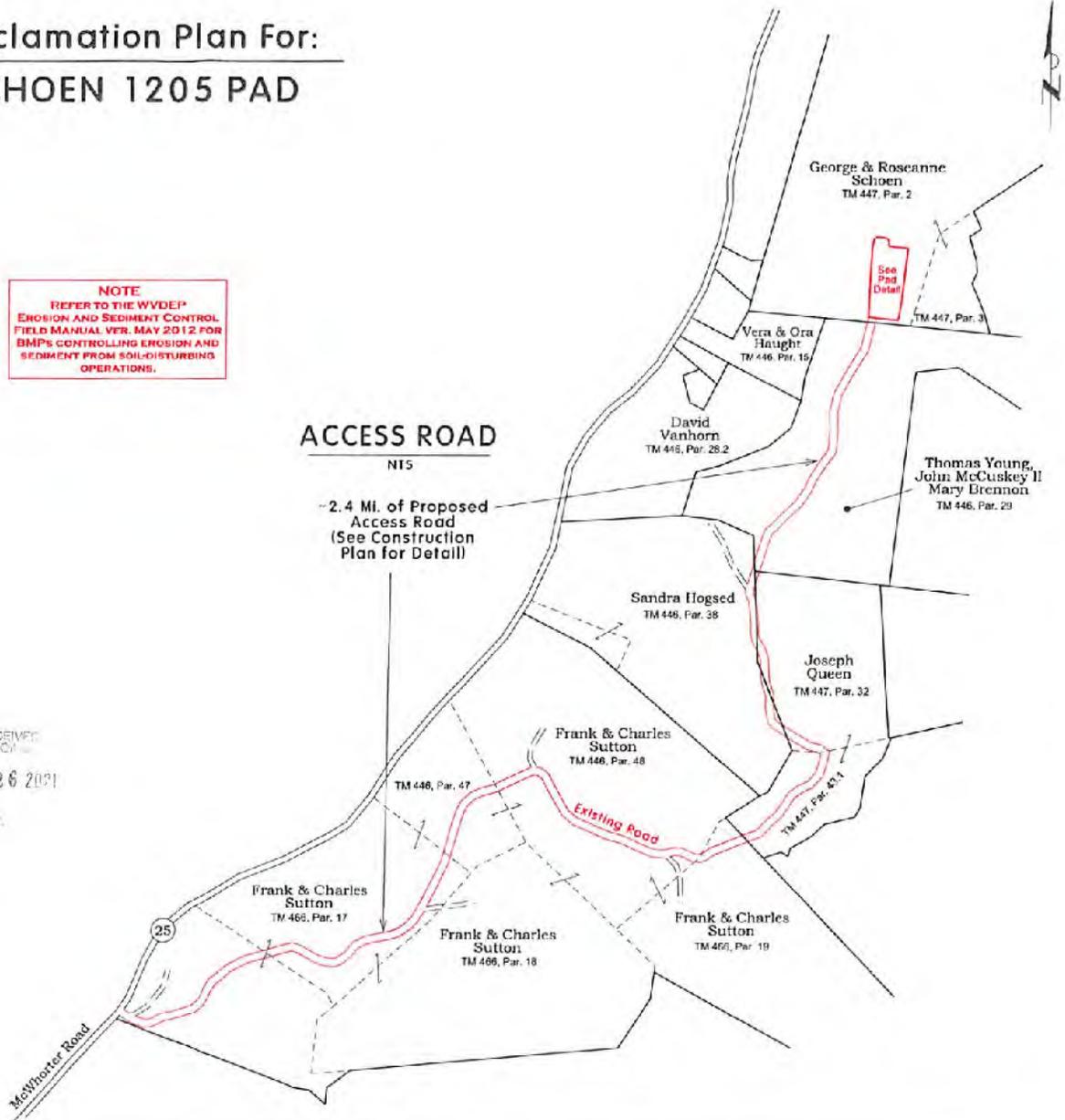
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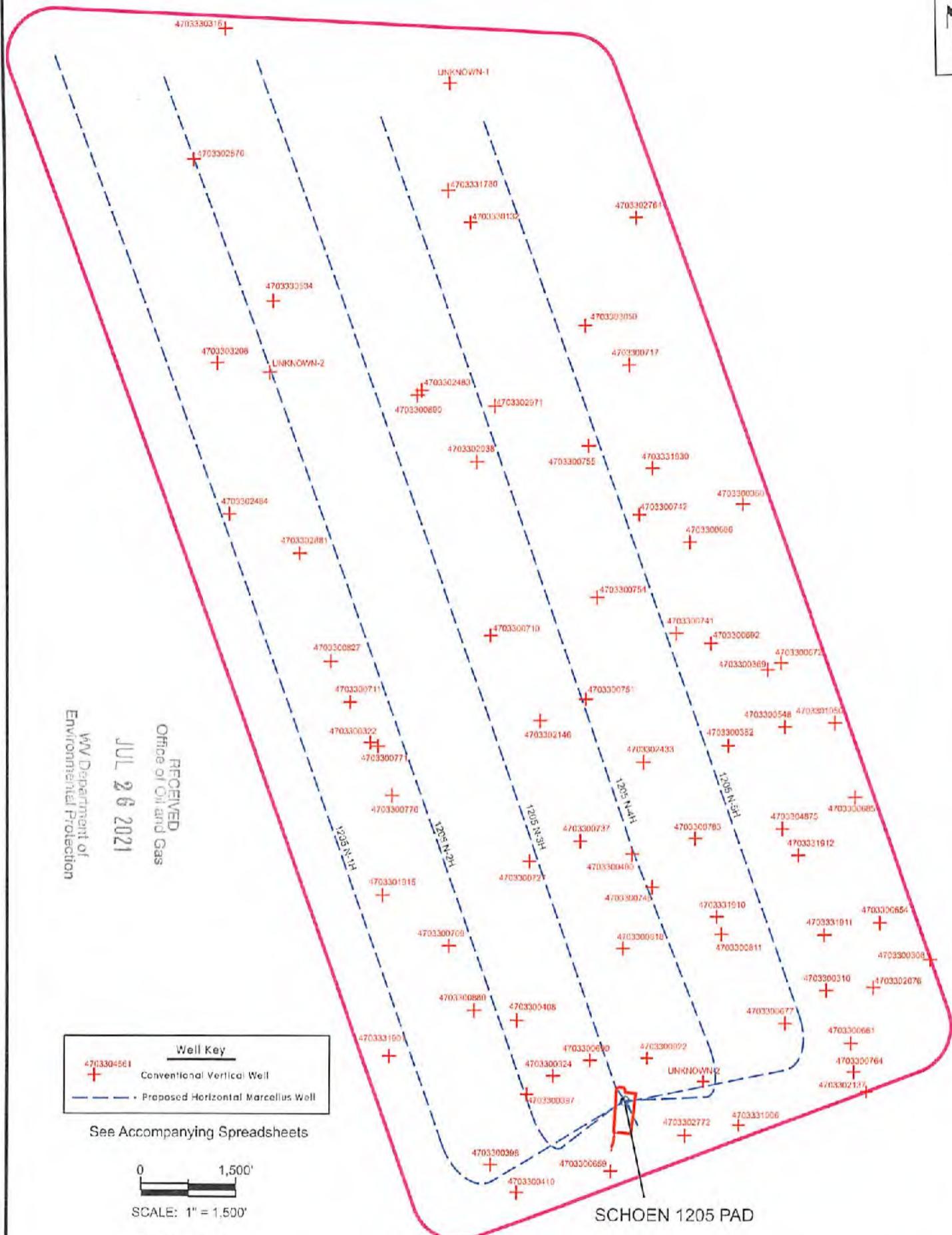
## ACCESS ROAD

NTS

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

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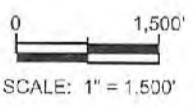


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**Well Key**

- 4703304861 + Conventional Vertical Well
- - - Proposed Horizontal Marcellus Well

See Accompanying Spreadsheets



DATA SOURCES  
WVGES Data Set - 2020; WVDEP Website

SCHOEN 1205 PAD

Area of Review for:

**SCHOEN 1205 NORTH UNIT**

Proposed 1205 N-1H Proposed 1205 N-2H Proposed 1205 N-3H  
Proposed 1205 N-4H Proposed 1205 N-5H

Grant District, Harrison County, W.Va.

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

08/27/2021

4703306011

## 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	4703300372	Harrison	F A Williams 1	Raymond Grose	Fifth	Gas w/ Oil Show	2320	PLUGGED	39.112322	-80.255946
8	4703300382	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Gantz	Storage	1653	ACTIVE	39.167589	-80.345998
9	4703300397	Harrison	Marcella R Bond	Hope Natural Gas Company	Up Devonian	Gas	1587	PLUGGED	39.152681	-80.357369
10	4703300398	Harrison	J N Rector	Hope Natural Gas Company	Thirty-foot	Storage	2002	PLUGGED	39.149633	-80.359418
11	4703300400	Harrison	Porter M Rogers	Hope Natural Gas Company	Thirty-foot	Storage	2085	PLUGGED	39.162985	-80.351406
12	4703300408	Harrison	M R Bond	Dominion Energy Transmission, Inc.	Gantz	Storage	1726	ACTIVE	39.155851	-80.357903
13	4703300410	Harrison	E A Waggoner	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1964	ACTIVE	39.148438	-80.357974
14	4703300548	Harrison	Mollie V Bassel	Dominion Energy Transmission, Inc.	Benson	Storage	4350	ACTIVE	39.168367	-80.342834
15	4703300654	Harrison	A V Knisley CW542	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1748	ACTIVE	39.159938	-80.337616
16	4703300659	Harrison	S V Curry CW433	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1990	ACTIVE	39.149343	-80.352710
17	4703300661	Harrison	M S Davis CW538	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1885	ACTIVE	39.154774	-80.339266
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	39.165453	-80.338921
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	4703300771	Harrison	O G Kennedy CW338	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1996	PLUGGED	39.167697	-80.365568
36	4703300776	Harrison	L Gifford CW337	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1973	ACTIVE	39.165584	-80.364807
37	4703300783	Harrison	M V Bassell CW448	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2127	PLUGGED	39.163631	-80.347893
38	4703300811	Harrison	D L Nutter	Dominion Energy Transmission, Inc.	Benson	Gas	4365	ACTIVE	39.159500	-80.346443
39	4703300818	Harrison	David C Curry CW441	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1880	PLUGGED	39.158922	-80.351965
40	4703300827	Harrison	A W Smith	Dominion Energy Transmission, Inc.	Fifth	Gas	2389	ACTIVE	39.171375	-80.368174
41	4703300880	Harrison	Marcella Bond	Dominion Energy Transmission, Inc.	Benson	Gas	4476	ACTIVE	39.156295	-80.360290
42	4703300890	Harrison	C H Woodford	Dominion Energy Transmission, Inc.	Benson	Gas	4660	ACTIVE	39.182815	-80.363180
43	4703300922	Harrison	A B Yost	Dominion Energy Transmission, Inc.	Benson	Gas	4455	ACTIVE	39.154204	-80.350633
44	4703301050	Harrison	Bassell 3	Dominion Energy Transmission, Inc.	Fifth	Gas	2314	PLUGGED	39.168513	-80.340039
45	4703301915	Harrison	G Thomas Smith	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4630	ACTIVE	39.161289	-80.365368
46	4703302076	Harrison	A V Knisley	Dominion Energy Transmission, Inc.	Benson	Gas	4227	ACTIVE	39.157180	-80.337989
47	4703302137	Harrison	M S Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4478	ACTIVE	39.152701	-80.338421
48	4703302146	Harrison	Emma Post	Dominion Energy Transmission, Inc.	Alexander	Gas	4980	ACTIVE	39.168746	-80.356491
49	4703302433	Harrison	M V Bassell	Dominion Energy Transmission, Inc.	Benson	Gas	4657	ACTIVE	39.166932	-80.350738
50	4703302483	Harrison	C H Woodford CW347	Dominion Energy Transmission, Inc.	Gantz	Observation	2164	PLUGGED	39.183028	-80.362946
51	4703302484	Harrison	C H Woodford CW343	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1960	ACTIVE	39.177808	-80.373752
52	4703302764	Harrison	Sarah Heldreth 3	Dominion Energy Transmission, Inc.	Fifth	not available	-	PLUGGED	39.190301	-80.350811
53	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	Gas	4427	ACTIVE	39.150855	-80.348565
54	4703302876	Harrison	LJ Stenger et al	P.G. Oil & Gas, LLC	Alexander	Gas	5100	ACTIVE	39.193173	-80.375451
55	4703302881	Harrison	E S Swisher (CW-344)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.176059	-80.369854
56	4703302938	Harrison	Carl Smith Jr	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	2221	ACTIVE	39.179913	-80.359897
57	4703302971	Harrison	P Maxwell et al (CW-463)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.182300	-80.358860
58	4703303050	Harrison	Porter Maxwell (CW-465)	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.185710	-80.353760
59	4703303208	Harrison	Porter Maxwell	Dominion Energy Transmission, Inc.	UNKNOWN	not available	-	PLUGGED	39.184352	-80.374325
60	4703304875	Harrison	Worthy C Hall	Dominion Energy Transmission, Inc.	Thirty-foot	not available	2362	PLUGGED	39.164004	-80.343017
61	4703330132	Harrison	Thomas B Reed	Hope Natural Gas Company	Hampshire Grp	Gas	2455	PLUGGED	39.190219	-80.360075
62	4703330316	Harrison	W B Lowther	Philadelphia Oil Co.	Hampshire Grp	Oil and Gas	2455	PLUGGED	39.198796	-80.373534
63	4703330534	Harrison	Porter Maxwell 3	Hope Natural Gas Company	Hampshire Grp	Gas	2352	PLUGGED	39.186975	-80.371151
64	4703331780	Harrison	Margert Reed	Hope Natural Gas Company	Hampshire Grp	Gas	2476	PLUGGED	39.191607	-80.361276
65	4703331901	Harrison	S J Davison CW332	Consolidated Gas Supply Corp.	Hampshire Grp	Storage	2330	OBSERVATION	39.154343	-80.365053
66	4703331906	Harrison	F S Young	Consolidated Gas Supply Corp.	Gantz	Storage	1910	UNKNOWN	39.151280	-80.345552
67	4703331910	Harrison	F S Young	Consolidated Gas Supply Corp.	Gantz	Storage	1910	UNKNOWN	39.160252	-80.346711
68	4703331911	Harrison	D L Nutter CW444	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2235	UNKNOWN	39.159435	-80.340704
69	4703331912	Harrison	D L Nutter CW449	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2362	UNKNOWN	39.162871	-80.342146

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70	4703331930	Harrison	E H Stout CW462	Consolidated Gas Supply Corp.	Greenland Gap Fm	Storage	2480	UNKNOWN	39.179554	-80.350086
71	UNKNOWN	Harrison	Sarah L Vanhorn 1	UNKNOWN	Fifth	not available	-	PLUGGED	39.196215	-80.361079
72	UNKNOWN	Harrison	J.J. Lewis	UNKNOWN	UNKNOWN	not available	-	PLUGGED	39.153186	-80.347510
73	UNKNOWN	Harrison	Bond Heirs	UNKNOWN	UNKNOWN	not available	2445	PLUGGED	39.183895	-80.371408
							YELLOW DENOTES WELL WITH TVD > 4,450'		GREEN DENOTES SURVEYED WELLS	

UPDATED 7/16/2021

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

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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**

**HG Energy II Appalachia, LLC**

**5260 Dupont Road**

**Parkersburg, WV 26101**

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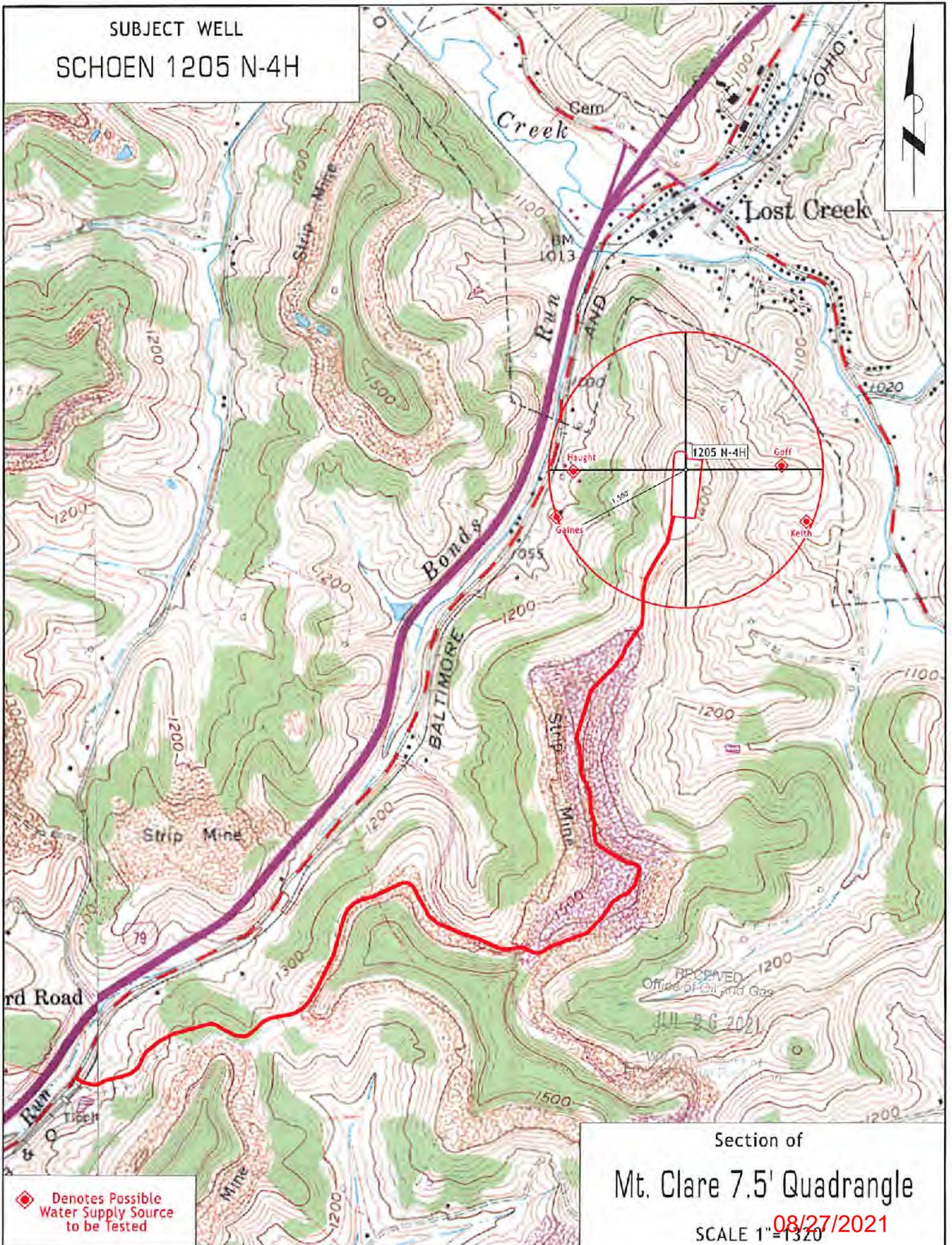
WV DEPARTMENT OF  
Environmental Protection

*SJW*

*7/22/2021*

08/27/2021

SUBJECT WELL  
SCHOEN 1205 N-4H



◆ Denotes Possible Water Supply Source to be Tested

Section of  
Mt. Clare 7.5' Quadrangle

SCALE 1"=1320  
08/27/2021

9,015' to Top Hole

5,324' to Top Hole  
 BTM LATITUDE 39 - 12 - 30  
 TOP LATITUDE 39 - 10 - 00

LONGITUDE 80 - 20 - 00  
 5,234' to Top Hole  
 4,952' to Bottom Hole

**HG Energy II  
 Appalachia, LLC  
 Well No. Schoen  
 1205 N-4H**

Page 1 of 5



Schoen  
 1205 N-4H  
 Bottom Hole

**Notes:**  
 Well No. Schoen 1205 N-4H  
 West Virginia Coordinate System of 1927, North Zone  
 based upon Differential GPS Measurements.  
 Top Hole coordinates Bottom Hole coordinates  
 Latitude: 39°09'08.25" Latitude: 39°11'41.04"  
 Longitude: 80°21'07.61" Longitude: 80°21'54.54"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,333,887.076m N: 4,338,588.894m  
 E: 555,987.625m E: 554,838.158m  
 Plat orientation and corner and well references are  
 based upon the grid north meridian.  
 Well location references are based upon the magnetic  
 meridian.

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

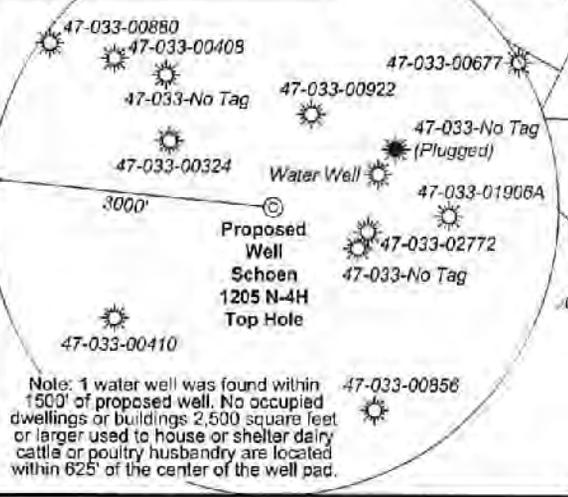


**Notes:**  
 Well No. Schoen 1205 N-4H  
 UTM NAD 1983 (USSF)  
 Top Hole Coordinates  
 N: 14,218,761.17  
 E: 1,824,135.54  
 Landing Point Coordinates  
 N: 14,219,591.33  
 E: 1,825,489.11  
 Deflection Point Coordinates  
 N: 14,222,645.30  
 E: 1,824,282.57  
 Bottom Hole Coordinates  
 N: 14,234,187.05  
 E: 1,820,331.52

ID	Lease
3	Emory L. Stout, et ux
8	Porter Maxwell, et al
12	Frank Swisher, et al
14	Mollie V. Bassell, et al
19	Emma A. Post, et ux, et al
35.01	Emily Post Fenton
35.02	William F. Vieweg
35.03	Terrance L. Bassell
35.04	Ario Minerals, LLC
35.05	Alinia N. & Donald Thompson
35.06	NAJ, LLC
35.07	Judith A. Suess Memear
35.08	Isaac H. Maxwell, III, et ux
35.09	Isaac H. Maxwell, III, et ux
35.10	Kimberly Smith Wriston
35.11	WV DOT Rail Authority
35.12	Stanley J. Coleman, et ux
35.13	Stanley J. Coleman
35.14	Shannon Q. & Sarah R. Pritts
35.13	Allen Stalnaker, et ux
39	Willa Post Robey, et al
40	Charlotte C. Gerlach, et ux
41	D.L. Nutter, et ux
55	French S. Young, et ux

Tag	Bearing	Dist.
L1	N 54°46' W	1,105.8'
L2	S 79°00' W	1,193.9'
L3	S 70°58' E	1,190.0'
L4	S 83°32' E	1,492.9'
L5	N 58°29' E	1,587.8'

- 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



FILE NO: 32-36-G-19  
 DRAWING NO: Schoen 1205 N4H Well Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY:  
 Submeter  
 PROVEN SOURCE OF ELEVATION:  
 GORS, Bridgeport, WV

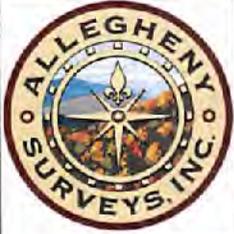
**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: July 16 2021  
 OPERATOR'S WELL NO. Schoen 1205 N-4H  
 API WELL NO. H8A  
 47 - 033 - 66011  
 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: 7,240' TVD  
 23,509' 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

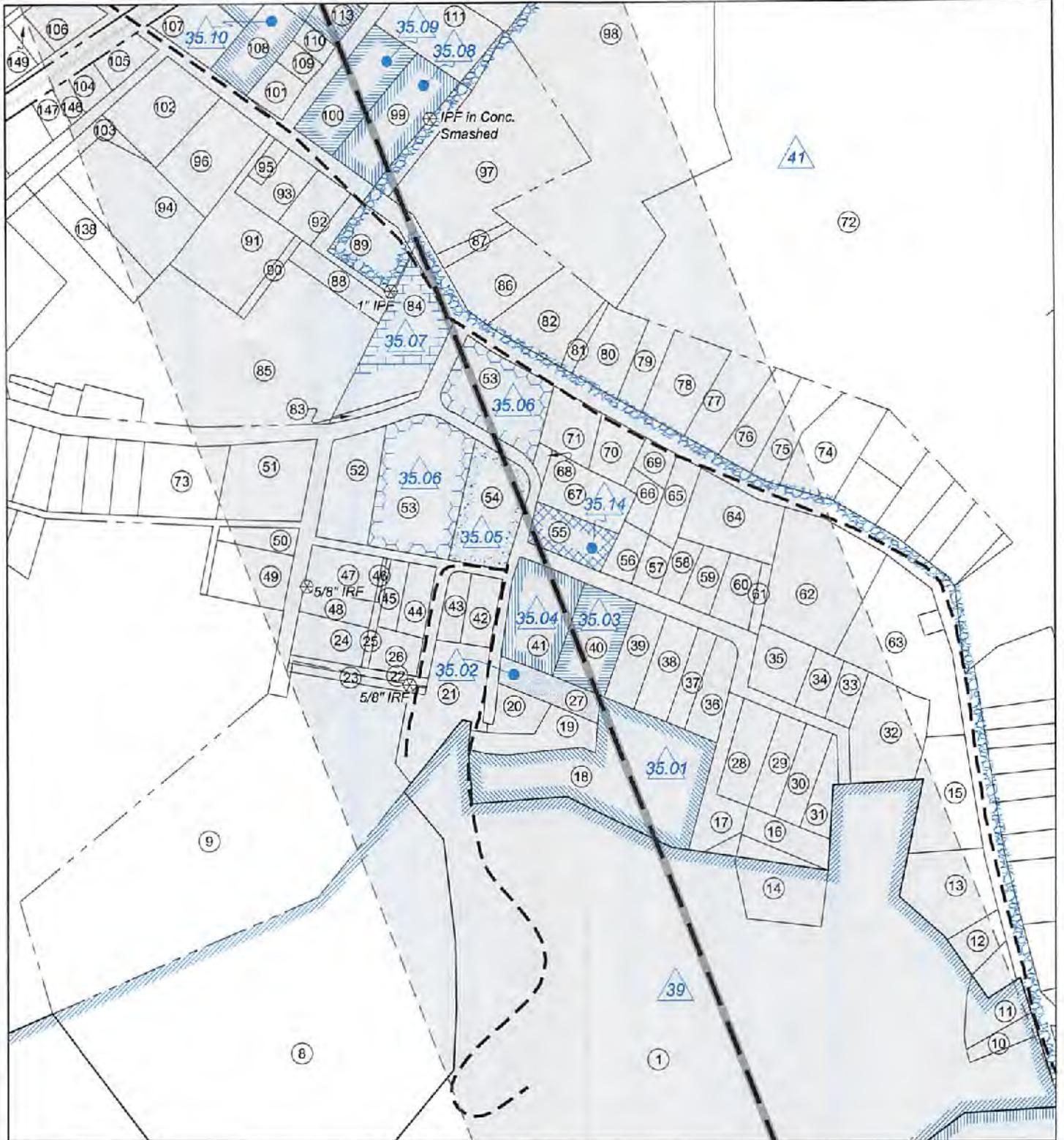
08/27/2021



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 2 of 5

Detail 1 (NTS)



FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO 46A  
47 - 033 - 06011  
STATE COUNTY PERMIT

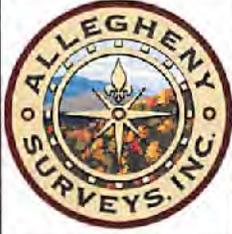
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

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: 23,509' MD

QUADRANGLE: Top: Mount Clare Btm: West Milford  
COUNTY: 08/27/2021  
ACREAGE: 65.00

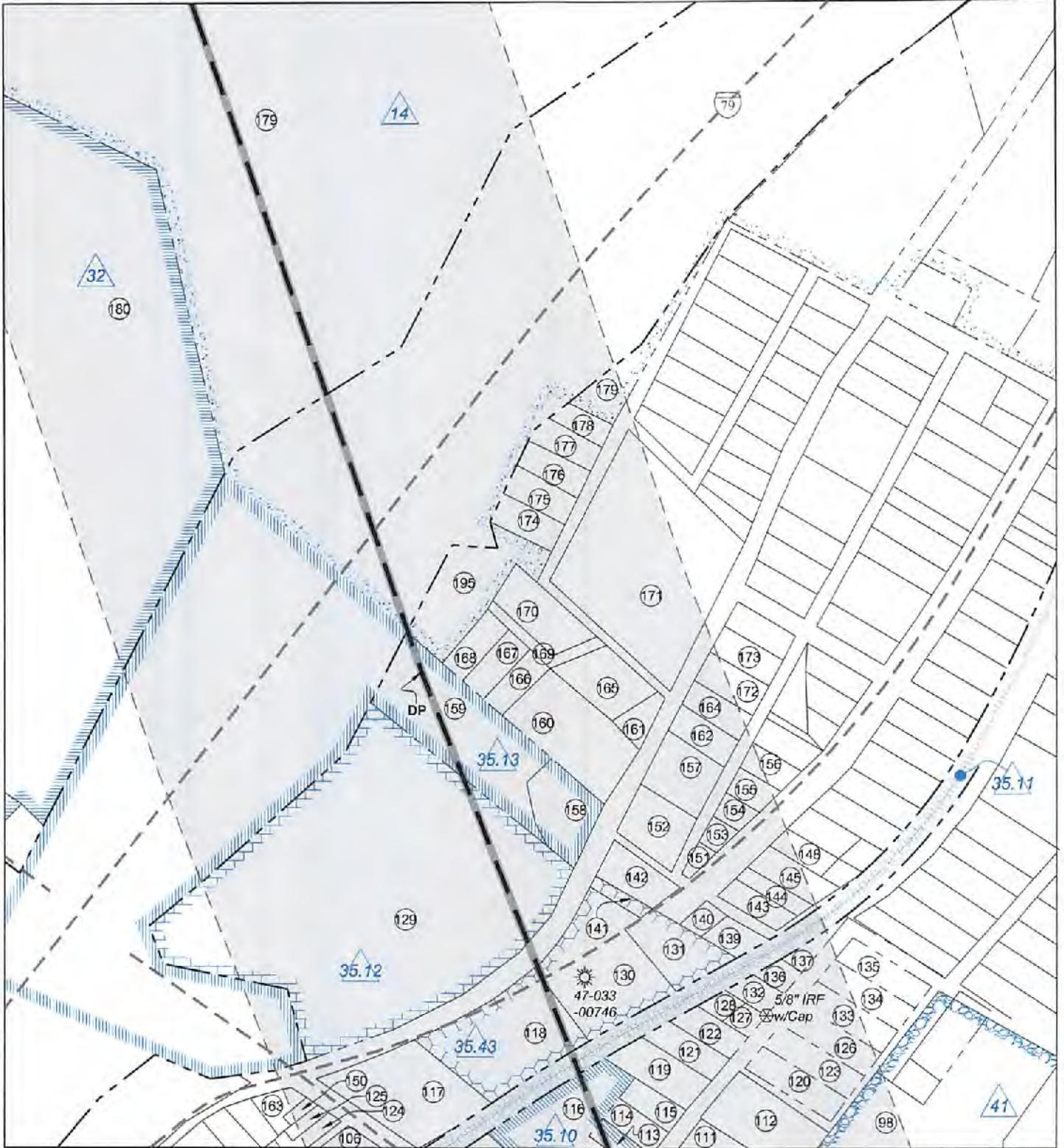
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 3 of 5

Detail 2 (NTS)



FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO **H6A**  
47 - 033 - **06011**  
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: **08/27/2021**  
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) \_\_\_\_\_ 7,240' TVD

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,509' MD

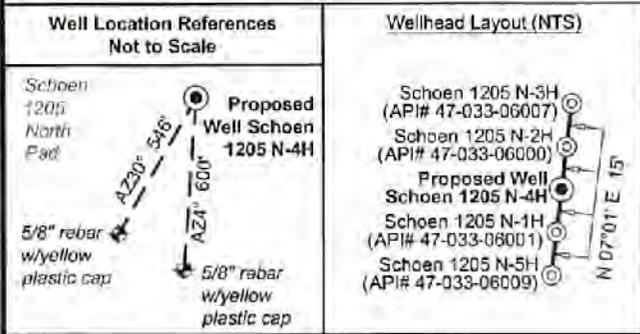
WELL OPERATOR: HG Energy II Appalachia, LLC  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 4 of 5



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	447 / 3.4	Stephen M. & Kimberly Goff	1257 / 189	7.67
4	447 / 3.5	Charlotte Gerlach	1288 / 503	1.35
5	447 / 4.11	Joseph & Karen Bowers	1295 / 887	21.87
6	447 / 3.3	Charlotte C. Gerlach	1070 / 1041	6.10
7	447 / 3.2	Michael Tillman & Mary Hencke	1257 / 193	5.86
8	447 / 1	Dale H. Jordan	1437 / 672	6.70
9	427 / 32	Dale Jordan	1437 / 672	4.85
10	2105 / 123	Helen J. Vernon	W189 / 882	0.06
11	2105 / 115	Eugebe R. & Sharon L. Smith	1039 / 160	0.18
12	2105 / 114	Eugene R. & Sharon L. Smith	1039 / 160	0.27
13	2105 / 113	Roberts A. & Ruby A. Marks	1251 / 504	0.39
14	2105 / 111	Robert M. & Connie J. Lewis	1518 / 814	0.45
15	2105 / 40	Robert A. & Ruby A. Marks	1251 / 504	0.52
16	2105 / 110	Herman Suttle, et al	1345 / 1030	0.21
17	2105 / 105	Ronald Maxwell	1580 / 1167	---
18	2105 / 93	Joshua Burner & Nicole Hebb	1417 / 1075	1.39
19	2105 / 84	Joshua & Nicole Burner	1460 / 692	0.11
20	2105 / 95	Joseph Swick	1460 / 694	0.17
21	2105 / 89	James Frank Roby, et al	1491 / 941	0.50
22	2105 / 127	Dale Jordan	1626 / 1024	0.07
23	2105 / 128	Dale Jordan	1505 / 430	0.07
24	2105 / 82	Dale Jordan	1626 / 1024	0.11
25	2105 / 126	Dale Jordan	1626 / 1024	0.05
26	2105 / 83	Dale Jordan	1626 / 1024	0.15
27	2105 / 96	David B. & Thresa G. Davis	1263 / 196	0.20
28	2105 / 106	Ronald Maxwell	1580 / 1167	0.26
29	2105 / 107	Ronald Maxwell	1580 / 1167	0.20
30	2105 / 108	Ronald Maxwell	1580 / 1167	0.20
31	2105 / 109	Herman Suttle, et al	1345 / 1030	0.14
32	2105 / 38	Carol S. Bennett	1382 / 250	0.54
33	2105 / 38	Carol S. Bennett	1382 / 250	0.13
34	2105 / 37	Carol S. Bennett	1382 / 250	0.14
35	2105 / 35	Benjamin S. Yoke, et al	1544 / 1241	0.26
36	2105 / 104	Joshua R. & Stephanie L. Stalder	1525 / 989	0.23
37	2105 / 103	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
38	2105 / 102	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
39	2105 / 101	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
40	2105 / 100	Jeffrey A. Bassell, et al	W190 / 188	0.40

No.	TM / Par	Owner	Bk / Pg	Ac.
41	2105 / 97	Traci I. Tharp	1560 / 186	0.44
42	2105 / 87	David G. & Mary E. Short	1328 / 845	0.14
43	2105 / 86	David G. & Mary E. Short	1328 / 845	0.13
44	2105 / 85	Dale Jordan	1626 / 1024	0.11
45	2105 / 84	Dale Jordan	1626 / 1024	0.11
46	2105 / 125	Kenny J. & Randi E. Welch	1633 / 147	0.01
47	2105 / 78	Kenny J. & Randi E. Welch	1633 / 147	0.22
48	2105 / 80	Dale Jordan	1626 / 1024	0.11
49	2104 / 103	Daniel L. & Carla Ann Toolhimen	1436 / 151	0.32
50	2104 / 101	Willis Gene Kennedy	1412 / 590	0.14
51	2104 / 98	Willis Gene Kennedy	1412 / 590	0.54
52	2105 / 24	Charles M. & Joyce L. Hall	1364 / 280	0.40
53	2105 / 13	NAJ, LLC	1614 / 281	1.38
54	2105 / 13.1	Rodney K. Cooper, Sr., et al	W198 / 852	0.53
55	2105 / 28	Rebecca D. Stafford	1462 / 259	0.28
56	2105 / 29	Jeffrey A. Bassell, et al	W190 / 188	0.13
57	2105 / 30	Jeffrey A. Bassell, et al	W190 / 188	0.11
58	2105 / 31	William B. & Amy M. Messenger	1324 / 983	0.13
59	2105 / 32	William B. & Amy M. Messenger	1324 / 983	0.13
60	2105 / 33	Tracey R. Beall	1344 / 1213	0.19
61	2105 / 34	Tracey R. Beall	1344 / 1213	0.06
62	2105 / 18	Tracey R. Beall	1344 / 1213	0.80
63	2105 / 19	Town of Lost Creek	1110 / 480	1.01
64	2105 / 17	Town of Lost Creek	1110 / 505	---
65	2105 / 16.1	Lisa K. Maxwell	1515 / 823	0.19
66	2105 / 16	Ruth A. Backwell	1655 / 1214	0.25
67	2105 / 27	Shannon Q. & Srah R. Pitts	1333 / 203	0.38
68	2105 / 26	Shannon Q. & Sarah R. Pitts	1333 / 203	---
69	2105 / 16.2	Town of Lost Creek	1400 / 1227	0.25
70	2105 / 15	Town of Lost Creek	1110 / 473	---
71	2105 / 14	David A. & Linda J. Fullner	1467 / 325	0.18
72	427 / 33	Isaac & Betty Maxwell	1539 / 141	72.00
73	2104 / 96	Virginia May Harding	1054 / 1006	0.35
74	2105 / 16	Jimmie Langford Groves	1315 / 47	0.38
75	2105 / 5	Pamela & Stacy Ash Dutton	1388 / 865	0.33
76	2105 / 4	Sherman Riffle	1438 / 1331	0.27
77	2105 / 2	Sherman Riffle	1438 / 1331	0.71
78	2105 / 2.2	Gary Jones	1506 / 332	0.25
79	2105 / 2.1	Gary Jones	1506 / 332	0.17
80	2105 / 1	Gary Jones	1506 / 332	0.63
81	2103 / 176.2	Gery Jones	1506 / 332	0.05
82	2103 / 176.1	Patricia Booth	1301 / 834	0.46
83	2104 / 29.1	Walter Nuttar	W154 / 30	---
84	2104 / 29	Keth E. Linger	1558 / 577	0.72
85	2104 / 39	Lost Creek UMC	1327 / 242	3.39
86	2103 / 176	Daniel T. & Lisa Booth	1311 / 899	0.43
87	2103 / 175	Daniel T. & Lisa Booth	1311 / 899	---
88	2104 / 28	Lisa I. Wageman	1239 / 457	0.06
89	2104 / 12	Parsons Ridge, LLC	1358 / 569	0.31
90	2104 / 27	Lost Creek UMC	786 / 520	---
91	2104 / 26	Trustees MP Church	144 / 447	---
92	2104 / 11	Lisa Wageman	1239 / 457	0.18
93	2104 / 10	George W. Dawson	1418 / 331	0.19
94	2104 / 25	Lost Creek UMC	1327 / 159	0.55
95	2104 / 9	Southern Area Library Inc.	1149 / 42	0.05
96	2104 / 8	Sharon Carol Smith	1286 / 730	0.44
97	2103 / 174	Betty Jean Maxwell	1315 / 502	1.50
98	2103 / 162	Betty Jean Maxwell	1315 / 502	4.20
99	2103 / 173	Issac & Betty Maxwell	1327 / 238	0.58
100	2103 / 172	Issac & Betty Maxwell	1426 / 684	0.50

FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
OPERATOR'S WELL NO: Schoen 1205 N-4H  
API WELL NO: 47-033-06011  
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: 7,240' TVD 23,509' 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



HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H

Page 5 of 5

No.	TM / Par	Owner	Bk / Pg	Ac.
101	2103 / 171.1	Dennis W. & Rose M. Chamberlain	1491 / 105	0.16
102	2104 / 7	Harrison County Bank	1064 / 1081	0.46
103	2104 / 25.1	Harrison County Bank	1067 / 224	0.13
104	2104 / 21	Associated Pharmacists	1362 / 948	0.10
105	2104 / 6	Town of Lost Creek	1398 / 283	—
106	2104 / 5	Sue Bennett	1132 / 132	0.29
107	2103 / 169	Chamberlain Brothers, Inc.	1206 / 1228	0.24
108	2103 / 170.1	Kimberly & Sharon Wriston	W83 / 97	0.29
109	2103 / 171	Carla McGlumphy	1398 / 55	0.09
110	2103 / 164	Carla McGlumphy	1398/55	0.06
111	2103 / 167	Timothy Maxwell	1541 / 298	0.50
112	2103 / 161	Cathy D. Bennett	F115 / 867	0.51
113	2103 / 164.1	Kimberly P. Smith, et al	1064 / 787	0.17
114	2103 / 165	Cathy D. Bennett	F115 / 867	0.12
115	2103 / 166	Cathy D. Bennett	F115 / 867	0.12
116	2103 / 170	Kimberly Wriston, et al	W87 / 97	0.54
117	2103 / 168	Chamberlain Brothers Inc.	1206 / 1228	0.75
118	2103 / 163	Chamberlain Brothers Inc.	1206 / 1228	0.79
119	2103 / 152	Cathy D. Bennett	F115 / 867	0.25
120	2103 / 180	Amanda Nutter	1437 / 204	0.21
121	2103 / 153	Jerry A. Hebb, et al	1307 / 78	0.16
122	2103 / 154	Barbara Jo Butcher	1446 / 539	0.13
123	2103 / 159	Brian Riffie	1507 / 119	0.20
124	2104 / 4	Carol S. Bennett	1582 / 290	0.07
125	2104 / 3	Town of Lost Creek	1110 / 493	—
126	2103 / 158	Sharon L. Smith, et al	F96 / 94	0.20
127	2103 / 155.1	Barbara Jo Butcher	1446 / 539	0.06
128	2103 / 155	Sharon L. Smith, et al	F96 / 94	—
129	427 / 26	Stanley & Marilyn Coleman	1236 / 37	5.57
130	2103 / 150	Darrell W. & Kathryn Goldsmith	1314 / 124	1.01
131	2103 / 150.1	John & Beth Elko	1358 / 606	0.31
132	2103 / 156	Mark Alan Dury	1581 / 305	0.05
133	2103 / 147	Sharon Smith, et al	F96 / 94	0.20
134	2103 / 133	Sharon Smith, et al	F96 / 94	0.19
135	2103 / 134	Kathryn Lynn Goldsmith, et al	1630 / 492	0.19
136	2103 / 146	Joshua Cogar, et al	W174 / 683	0.04
137	2103 / 132	Joshua Cogar, et al	W174 / 683	—
138	2104 / 39.1	Lost Creek UMC	1327 / 159	0.31
139	2103 / 145	Joshua Cogar	W174 / 683	0.11
140	2103 / 144	Joshua T. Cogar	1476 / 90	0.07
141	2103 / 149.1	Erika Langford & Almee Ziemann	1597 / 972	0.07
142	2103 / 143	Enka Langford & Almee Ziemann	1597 / 972	0.16
143	2103 / 131	Joshua Cogar	1476 / 90	0.13
144	2103 / 130	Joshua Cogar	W174 / 683	0.13
145	2103 / 129	Joshua Cogar	W174 / 683	0.19
146	2104 / 22	Associated Pharmacists	1362 / 948	0.04
147	2104 / 23	Associated Pharmacists	1362 / 948	0.07
148	2103 / 127	David & Brenda Cogar	1516 / 166	0.13
149	2104 / 20	Susan Randall, et al	W111 / 841	0.07
150	2104 / 2	Denny W. Chamberlain	1436 / 1170	0.03

No.	TM / Par	Owner	Bk / Pg	Ac.
151	2103 / 121	David N. Daugherty	1499 / 649	0.03
152	2103 / 120	David N. Daugherty	1367 / 808	0.30
153	2103 / 122	David N. Daugherty	1499 / 649	0.05
154	2103 / 123	Randall B. Burrows, Jr.	1549 / 737	0.07
155	2103 / 124	Susan E. Desjardins	1664 / 73	0.08
156	2103 / 111	Susan E. Desjardins	1664 / 73	0.11
157	2103 / 119	David N. Daugherty	1423 / 404	0.30
158	427 / 26.1	Everett & Richard Casto	1390 / 822	0.34
159	427 / 26.3	Harold & Wilford Vanhorn	1230 / 301	1.03
160	2103 / 118	Judith Vanhorn	1428 / 1118	0.60
161	2103 / 109.1	Betty & Emerson Vanhorn	1601 / 43	0.10
162	2103 / 110	Board of Education	376 / 483	0.14
163	2104 / 1	Denny W. Chamberlain	1436 / 1170	0.13
164	2103 / 101	Board of Education	376 / 483	0.14
165	2103 / 108	Emerson & Betty Vanhorn	1601 / 43	0.32
166	2103 / 117	David A. & Vanessa L. Fisher	1083 / 778	0.14
167	2103 / 116	David A. & Vanessa L. Fisher	1083 / 778	0.14
168	2103 / 115	David A. & Vanessa L. Fisher	1083 / 778	0.14
169	2103 / 178	David & Vanessa Fisher	1108 / 565	0.12
170	2103 / 106	David A. & Vanessa L. Fisher	1083 / 778	0.31
171	2103 / 77	Board of Education	240 / 114	1.90
172	2103 / 95	Steve & Gwen Lake	1268 / 659	0.15
173	2103 / 90	Rhonda Martin	1551 / 277	0.14
174	2103 / 89	Board of Education	593 / 315	0.13
175	2103 / 83	Board of Education	593 / 315	0.13
176	2103 / 76	Board of Education	593 / 315	0.13
177	2103 / 69	Board of Education	593 / 315	0.13
178	2103 / 62	Board of Education	593 / 315	0.13
179	427 / 1	Walter E. Nutter & David H. Nutter	W154 / 301	228.23
180	426 / 62	Dorothy Dawson	W148 / 1062	16.13
181	426 / 36	George Wesley & Amy June Dawson	1310 / 247	61.96
182	428 / 35.5	Lost Creek Salvage LLC	1803 / 933	11.53
183	428 / 35.8	Lost Creek Salvage LLC	539 / 1088	85.23
184	426 / 12	Annette J. Cobun	1496 / 38	84.79
185	406 / 48	Annette J. Cobun	1496 / 39	15.43
186	406 / 47	Annette J. Cobun	1496 / 39	72.13
187	406 / 24	Clearnece H. Ford, II & Connie Ferguson	414 / 352	160.49
188	406 / 25	Isaac, III & Betty Jean Maxwell	1509 / 934	255.21
189	406 / 27	James Stout	W161 / 306	43.50
190	406 / 10	Forest Haymond	350 / 96	45.00
191	406 / 10.1	Forest Haymond	1306 / 1105	32.27
192	406 / 12.1	David S. Cale, et al	1618 / 1125	1.33
193	406 / 10.1	Forest Haymond	1306 / 1105	32.27
194	406 / 11	Mildred Stout	1138 / 993	44.80
195	427 / 26.2	David A. & Vanessa L. Fisher	1101 / 533	13.75

FILE NO: 32-36-G-19 DRAWING NO: Schoen 1205 N4H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV	<b>STATE OF WEST VIRGINIA</b> DEPARTMENT OF ENVIRONMENTAL PROTECTION <b>OIL AND GAS DIVISION</b>	DATE: July 16 2021 OPERATOR'S WELL NO. Schoen 1205 N-4H <b>API WELL NO A6A</b> 47 - 033 - 06011 STATE COUNTY PERMIT
WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> 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		Top: Mount Clare QUADRANGLE: Btm: West Milford COUNT: 08/27/2021 ACREAGE: 65.00 LEASE NO: _____ ACREAGE: 78.20
PROPOSED WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input checked="" type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,240' TVD <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,509' 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

9,015' to Top Hole

5,324' to Top Hole

BTM LATITUDE 39 - 12 - 30  
TOP LATITUDE 39 - 10 - 00

LONGITUDE 80 - 20 - 00  
5,234' to Top Hole  
4,952' to Bottom Hole

HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H

Page 1 of 5



Schoen  
1205 N-4H  
Bottom Hole

Notes:  
Well No. Schoen 1205 N-4H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°09'08.25" Latitude: 39°11'41.04"  
Longitude: 80°21'07.61" Longitude: 80°21'54.54"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,333,887.076m N: 4,338,588.894m  
E: 555,997.625m E: 554,838.158m  
Plat orientation and corner and well references are  
based upon the grid north meridian.  
Well location references are based upon the magnetic  
meridian.

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



Notes:  
Well No. Schoen 1205 N-4H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,218,761.17'  
E: 1,824,135.54'  
Landing Point Coordinates  
N: 14,219,591.33'  
E: 1,825,489.11'  
Deflection Point Coordinates  
N: 14,222,645.30'  
E: 1,824,282.57'  
Bottom Hole Coordinates  
N: 14,234,187.05'  
E: 1,820,331.52'

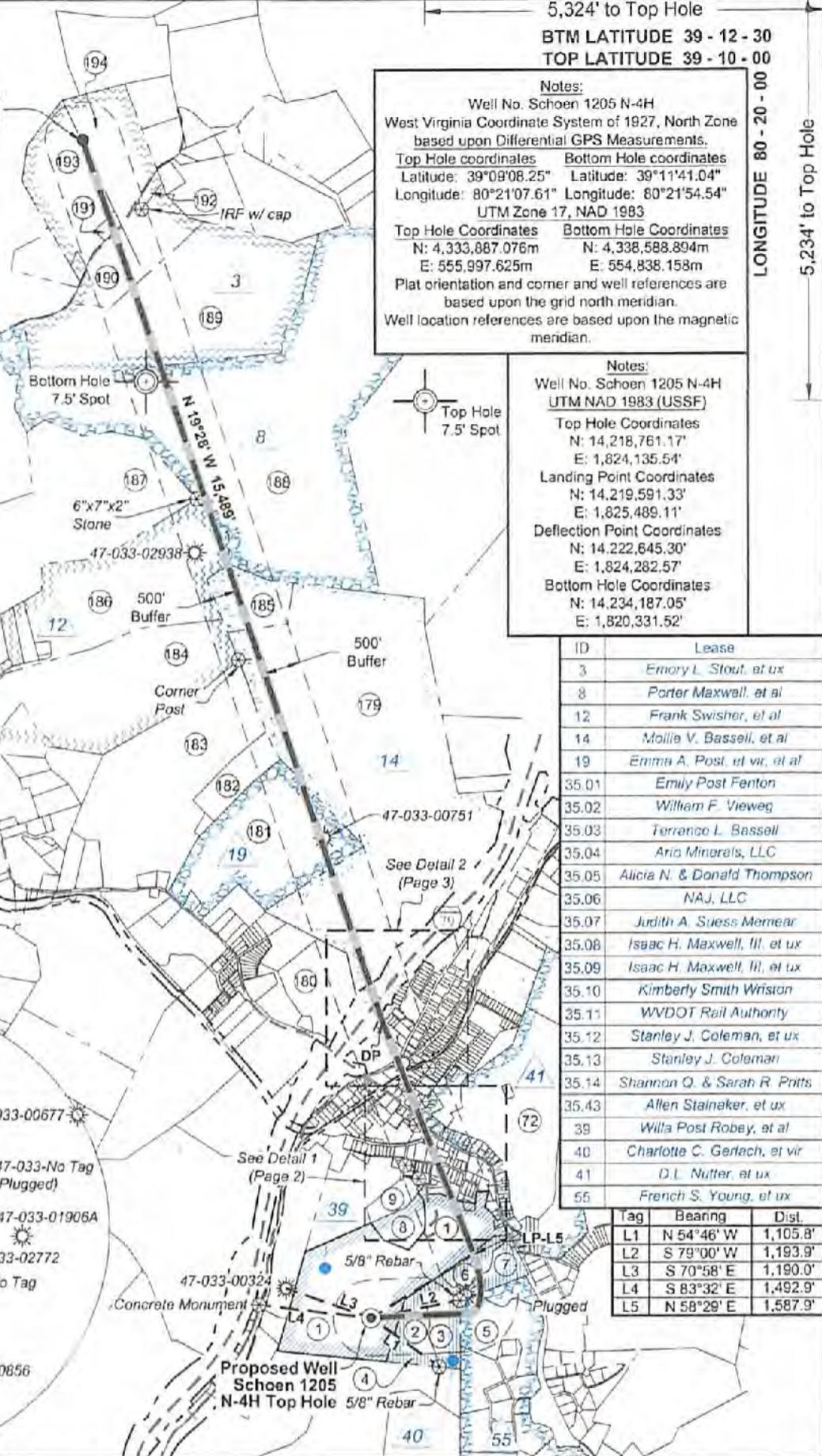
ID	Lease
3	Emory L. Stout, et ux
8	Porter Maxwell, et al
12	Frank Swisher, et al
14	Mollie V. Bassell, et al
19	Emma A. Post, et vir, et al
35.01	Emily Post Fenton
35.02	William F. Vieweg
35.03	Terrence L. Bassell
35.04	Aria Minerals, LLC
35.05	Alicia N. & Donald Thompson
35.06	NAJ, LLC
35.07	Judith A. Suess Memear
35.08	Isaac H. Maxwell, III, et ux
35.09	Isaac H. Maxwell, III, et ux
35.10	Kimberly Smith Wriston
35.11	WV DOT Rail Authority
35.12	Stanley J. Coleman, et ux
35.13	Stanley J. Coleman
35.14	Shannon Q. & Sarah R. Pritts
35.43	Allen Stainaker, et ux
39	Willa Post Robey, et al
40	Charlotte C. Gerlach, et vir
41	D.L. Nutter, et ux
55	French S. Young, et ux

Tag	Bearing	Dist.
L1	N 54°46' W	1,105.8'
L2	S 79°00' W	1,193.9'
L3	S 70°58' E	1,190.0'
L4	S 83°32' E	1,492.9'
L5	N 58°29' E	1,587.9'

- 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

47-033-00980  
47-033-00408  
47-033-No Tag  
47-033-00922  
47-033-00677  
47-033-01906A  
47-033-02772  
47-033-No Tag  
47-033-00856  
47-033-00324  
Water Well  
3000'  
Proposed Well  
Schoen  
1205 N-4H  
Top Hole  
47-033-00410

Note: 1 water well was found within  
1500' of proposed well. No occupied  
dwellings or buildings 2,500 square feet  
or larger used to house or shelter dairy  
cattle or poultry husbandry are located  
within 625' of the center of the well pad.



FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO. 46A  
47 - 033 - 06011  
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: 23,509' 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

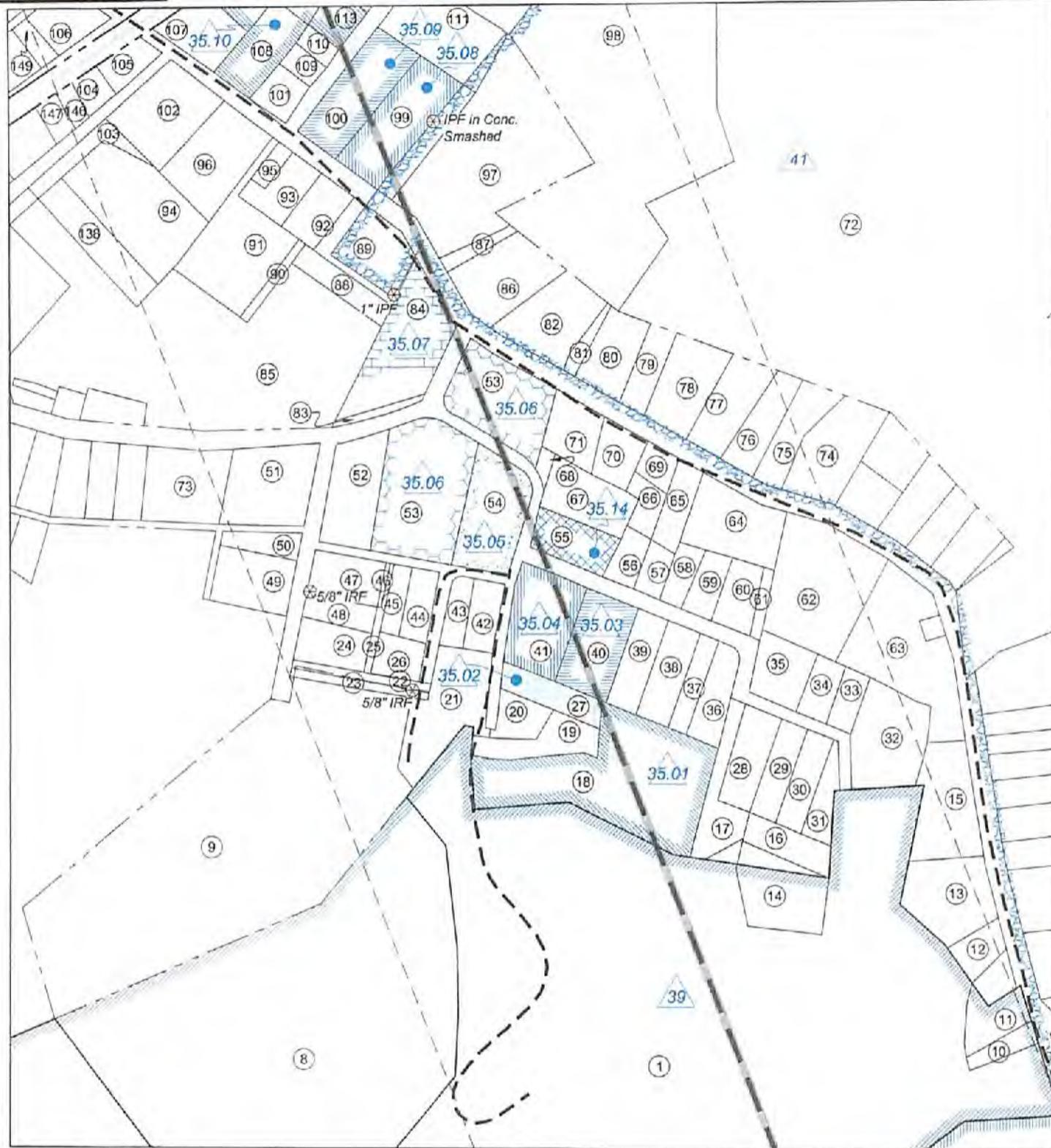
COUNTY: 08/27/2021



HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H

Page 2 of 5

Detail 1 (NTS)



FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 20 21  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO HGA  
47 - 033 - 06611  
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: Marshall  
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: 23,509' 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

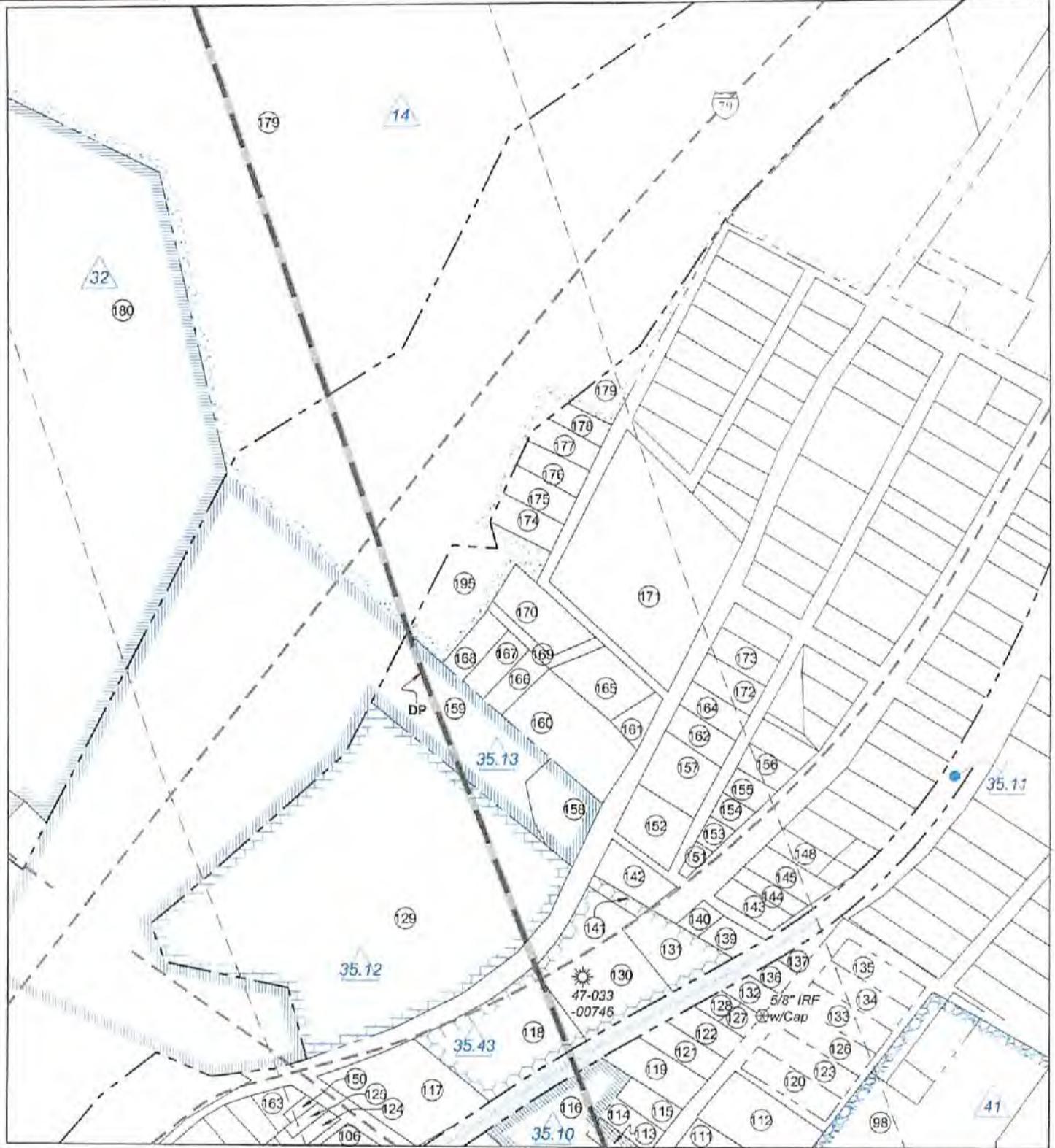
08/27/2021



**HG Energy II  
 Appalachia, LLC  
 Well No. Schoen  
 1205 N-4H**

Page 3 of 5

Detail 2 (NTS)



FILE NO: 32-36-G-19  
 DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
 OPERATOR'S WELL NO. Schoen 1205 N-4H  
 API WELL NO. 47-033-06011  
 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: 7,240' TVD  
23,509' MD

Top: Mount Clare  
 Btm: West Milford  
 QUADRANGLE: 08/27/2021  
 COUNTY: Harrison  
 ACREAGE: 65.00

WELL OPERATOR: HG Energy II Appalachia, LLC  
 ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White  
 ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 4 of 5

**Well Location References  
Not to Scale**



**Wellhead Layout (NTS)**



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	447 / 3.4	Stephen M. & Kimberly Golf	1257 / 189	7.67
4	447 / 3.5	Charlotte Gerlach	1288 / 503	1.35
5	447 / 4.11	Joseph & Karen Bowers	1295 / 887	21.87
6	447 / 3.3	Charlotte C. Gerlach	1070 / 1041	6.10
7	447 / 3.2	Michael Tillman & Mary Hencke	1257 / 193	5.86
8	447 / 1	Dale H. Jordan	1437 / 672	6.70
9	427 / 32	Dale Jordan	1437 / 672	4.85
10	2105 / 123	Helen J. Vernon	W199 / 862	0.06
11	2105 / 115	Eugeba R. & Sharron L. Smith	1039 / 160	0.18
12	2105 / 114	Eugene R. & Sharon L. Smith	1039 / 160	0.27
13	2105 / 113	Roberts A. & Ruby A. Marks	1251 / 504	0.39
14	2105 / 111	Robert M. & Connie J. Lewis	1518 / 614	0.45
15	2105 / 40	Robert A. & Ruby A. Marks	1251 / 504	0.52
16	2105 / 110	Herman Suttle, et al	1345 / 1030	0.21
17	2105 / 105	Ronald Maxwell	1580 / 1167	---
18	2105 / 93	Joshua Bumer & Nicole Hebb	1417 / 1075	1.39
19	2105 / 84	Joshua & Nicole Bumer	1460 / 692	0.11
20	2105 / 95	Joseph Swick	1460 / 694	0.17
21	2105 / 89	James Frank Roby, et al	1491 / 941	0.50
22	2105 / 127	Dale Jordan	1626 / 1024	0.07
23	2105 / 128	Dale Jordan	1505 / 430	0.07
24	2105 / 82	Dale Jordan	1626 / 1024	0.11
25	2105 / 126	Dale Jordan	1626 / 1024	0.05
26	2105 / 83	Dale Jordan	1626 / 1024	0.15
27	2105 / 96	David B. & Thresa G. Davis	1263 / 196	0.20
28	2105 / 106	Ronald Maxwell	1580 / 1167	0.26
29	2105 / 107	Ronald Maxwell	1580 / 1167	0.20
30	2105 / 108	Ronald Maxwell	1580 / 1167	0.20
31	2105 / 109	Herman Suttle, et al	1345 / 1030	0.14
32	2105 / 39	Carol S. Bennett	1382 / 250	0.54
33	2105 / 38	Carol S. Bennett	1382 / 250	0.13
34	2105 / 37	Carol S. Bennett	1382 / 250	0.14
35	2105 / 35	Benjamin S. Yoke, et al	1544 / 1241	0.26
36	2105 / 104	Joshua R. & Stephanie L. Stalder	1525 / 989	0.23
37	2105 / 103	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
38	2105 / 102	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
39	2105 / 101	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
40	2105 / 100	Jeffrey A. Bassell, et al	W190 / 188	0.40

No.	TM / Par	Owner	Bk / Pg	Ac.
41	2105 / 97	Traci I. Tharp	1560 / 188	0.44
42	2105 / 87	David G. & Mary E. Short	1328 / 845	0.14
43	2105 / 86	David G. & Mary E. Short	1328 / 845	0.13
44	2105 / 85	Dale Jordan	1626 / 1024	0.11
45	2105 / 84	Dale Jordan	1626 / 1024	0.11
46	2105 / 125	Kenny J. & Randi E. Welch	1633 / 147	0.01
47	2105 / 78	Kenny J. & Randi E. Welch	1633 / 147	0.22
48	2105 / 80	Dale Jordan	1626 / 1024	0.11
49	2104 / 103	Daniel L. & Caria Ann Toothman	1436 / 151	0.32
50	2104 / 101	Willis Gene Kennedy	1412 / 590	0.14
51	2104 / 98	Willis Gene Kennedy	1412 / 590	0.54
52	2105 / 24	Charles M. & Joyce L. Hall	1364 / 280	0.40
53	2105 / 13	NAJ, LLC	1614 / 281	1.38
54	2105 / 13.1	Rodney K. Cooper, Sr., et al	W198 / 852	0.53
55	2105 / 28	Rebecca D. Stafford	1462 / 259	0.28
56	2105 / 29	Jeffrey A. Bassell, et al	W190 / 188	0.13
57	2105 / 30	Jeffrey A. Bassell, et al	W190 / 188	0.11
58	2105 / 31	William B. & Amy M. Messenger	1324 / 983	0.13
59	2105 / 32	William B. & Amy M. Messenger	1324 / 983	0.13
60	2105 / 33	Tracey R. Beall	1344 / 1213	0.19
61	2105 / 34	Tracey R. Beall	1344 / 1213	0.06
62	2105 / 18	Tracey R. Beall	1344 / 1213	0.80
63	2105 / 19	Town of Lost Creek	1110 / 480	1.01
64	2105 / 17	Town of Lost Creek	1110 / 505	---
65	2105 / 16.1	Lisa K. Maxwell	1515 / 823	0.19
66	2105 / 16	Ruth A. Baskwell	1655 / 1214	0.25
67	2105 / 27	Shannon Q. & Sarah R. Pitts	1333 / 203	0.38
68	2105 / 26	Shannon Q. & Sarah R. Pitts	1333 / 203	---
69	2105 / 16.2	Town of Lost Creek	1400 / 1227	0.25
70	2105 / 15	Town of Lost Creek	1110 / 473	---
71	2105 / 14	David A. & Linda J. Fulmer	1467 / 325	0.18
72	427 / 33	Isaac & Betty Maxwell	1539 / 141	72.00
73	2104 / 96	Virginia May Harding	1054 / 1006	0.35
74	2105 / 6	Jimmie Langford Groves	1315 / 47	0.38
75	2105 / 5	Pamela & Stacy Ash Dutton	1588 / 865	0.33
76	2105 / 4	Sherman Riffle	1438 / 1331	0.27
77	2105 / 2	Sherman Riffle	1438 / 1331	0.71
78	2105 / 2.2	Gary Jones	1506 / 332	0.25
79	2105 / 2.1	Gary Jones	1506 / 332	0.17
80	2105 / 1	Gary Jones	1506 / 332	0.63
81	2103 / 176.2	Gary Jones	1506 / 332	0.05
82	2103 / 176.1	Patricia Booth	1301 / 834	0.46
83	2104 / 29.1	Walter Nutter	W154 / 30	---
84	2104 / 29	Keth E. Linger	1558 / 577	0.72
85	2104 / 39	Lost Creek UMC	1327 / 242	3.39
86	2103 / 176	Daniel T. & Lisa Booth	1311 / 899	0.43
87	2103 / 175	Daniel T. & Lisa Booth	1311 / 899	---
88	2104 / 28	Lisa I. Wageman	1239 / 457	0.06
89	2104 / 12	Parsons Ridge, LLC	1358 / 569	0.31
90	2104 / 27	Lost Creek UMC	786 / 520	---
91	2104 / 26	Trustees MP Church	144 / 447	---
92	2104 / 11	Lisa Wageman	1239 / 457	0.18
93	2104 / 10	George W. Dawson	1418 / 331	0.19
94	2104 / 25	Lost Creek UMC	1327 / 159	0.55
95	2104 / 9	Southern Area Library Inc.	1149 / 42	0.05
96	2104 / 8	Sharon Carol Smith	1286 / 730	0.44
97	2103 / 174	Betty Jean Maxwell	1315 / 502	1.50
98	2103 / 162	Betty Jean Maxwell	1315 / 502	4.20
99	2103 / 173	Issac & Betty Maxwell	1327 / 238	0.58
100	2103 / 172	Issac & Betty Maxwell	1428 / 684	0.50

FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO. 47-033-06011  
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  
Bottom: West Millford  
QUADRANGLE: Harrison  
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: 7,240' TVD 23,509' 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

08/27/2021



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 5 of 5

No.	TM / Par	Owner	Bk / Pg	Ac.
101	2103 / 171.1	Dennis W. & Rose M. Chamberlain	1491 / 105	0.16
102	2104 / 7	Harrison County Bank	1064 / 1081	0.46
103	2104 / 25.1	Harrison County Bank	1067 / 224	0.13
104	2104 / 21	Associated Pharmacists	1362 / 948	0.10
105	2104 / 6	Town of Lost Creek	1398 / 283	---
106	2104 / 5	Sue Bennett	1132 / 132	0.29
107	2103 / 169	Chamberlain Brothers, Inc.	1206 / 1228	0.24
108	2103 / 170.1	Kimberly & Sharon Wriston	W83 / 97	0.29
109	2103 / 171	Carla McGlumphy	1398 / 55	0.09
110	2103 / 164	Carla McGlumphy	1398/55	0.06
111	2103 / 167	Timothy Maxwell	1541 / 298	0.50
112	2103 / 161	Cathy D. Bennett	F115 / 867	0.51
113	2103 / 164.1	Kimberly P. Smith, et al	1064 / 787	0.17
114	2103 / 165	Cathy D. Bennett	F115 / 867	0.12
115	2103 / 166	Cathy D. Bennett	F115 / 867	0.12
116	2103 / 170	Kimberly Wriston, et al	W87 / 97	0.54
117	2103 / 168	Chamberlain Brothers Inc.	1206 / 1228	0.75
118	2103 / 163	Chamberlain Brothers Inc.	1206 / 1228	0.79
119	2103 / 152	Cathy D. Bennett	F115 / 867	0.26
120	2103 / 160	Amanda Nutter	1437 / 204	0.21
121	2103 / 153	Jerry A. Habb, et al	1307 / 76	0.16
122	2103 / 164	Barbara Jo Butcher	1446 / 539	0.13
123	2103 / 159	Brian Riffe	1507 / 119	0.20
124	2104 / 4	Carol S. Bennett	1582 / 290	0.07
125	2104 / 3	Town of Lost Creek	1110 / 483	---
126	2103 / 158	Sharon L. Smith, et al	F96 / 94	0.20
127	2103 / 155.1	Barbara Jo Butcher	1446 / 539	0.06
128	2103 / 155	Sharon L. Smith, et al	F96 / 94	---
129	427 / 26	Stanley & Marilyn Coleman	1236 / 37	5.57
130	2103 / 150	Darrell W. & Kathryn Goldsmith	1314 / 124	1.01
131	2103 / 150.1	John & Beth Elko	1358 / 606	0.31
132	2103 / 156	Mark Alen Duty	1581 / 305	0.05
133	2103 / 147	Sharon Smith, et al	F96 / 94	0.20
134	2103 / 133	Sharon Smith, et al	F96 / 94	0.19
135	2103 / 134	Kathryn Lynn Goldsmith, et al	1630 / 492	0.19
136	2103 / 146	Joshua Cogar, et al	W174 / 683	0.04
137	2103 / 132	Joshua Cogar, et al	W174 / 683	---
138	2104 / 39.1	Lost Creek UMC	1327 / 159	0.31
139	2103 / 145	Joshua Cogar	W174 / 683	0.11
140	2103 / 144	Joshua T. Cogar	1476 / 90	0.07
141	2103 / 149.1	Erika Langford & Aimee Ziemann	1597 / 972	0.07
142	2103 / 143	Erika Langford & Aimee Ziemann	1597 / 972	0.16
143	2103 / 131	Joshua Cogar	1476 / 90	0.13
144	2103 / 130	Joshua Cogar	W174 / 683	0.13
145	2103 / 129	Joshua Cogar	W174 / 683	0.19
146	2104 / 22	Associated Pharmacists	1362 / 948	0.04
147	2104 / 23	Associated Pharmacists	1362 / 948	0.07
148	2103 / 127	David & Brenda Cogar	1516 / 166	0.13
149	2104 / 20	Susan Randall, et al	W111 / 841	0.07
150	2104 / 2	Denny W. Chamberlain	1436 / 1170	0.03

No.	TM / Par	Owner	Bk / Pg	Ac.
151	2103 / 121	David N. Daugherty	1499 / 649	0.03
152	2103 / 120	David N. Daugherty	1367 / 808	0.30
153	2103 / 122	David N. Daugherty	1499 / 649	0.05
154	2103 / 123	Randall B. Burrows, Jr.	1549 / 737	0.07
155	2103 / 124	Susan E. Desjardins	1664 / 73	0.08
156	2103 / 111	Susan E. Desjardins	1664 / 73	0.11
157	2103 / 119	David N. Daugherty	1423 / 404	0.30
158	427 / 26.1	Everett & Richard Caslo	1330 / 822	0.34
159	427 / 26.3	Harold & Wilford Vanhom	1230 / 301	1.03
160	2103 / 118	Judith Vanhom	1428 / 1118	0.60
161	2103 / 109.1	Betty & Emerson Vanhom	1001 / 43	0.10
162	2103 / 110	Board of Education	376 / 483	0.14
163	2104 / 1	Denny W. Chamberlain	1436 / 1170	0.13
164	2103 / 101	Board of Education	376 / 483	0.14
165	2103 / 108	Emerson & Betty Vanhom	1601 / 43	0.32
166	2103 / 117	David A. & Vanessa L. Fisher	1083 / 778	0.14
167	2103 / 116	David A. & Vanessa L. Fisher	1083 / 778	0.14
168	2103 / 115	David A. & Vanessa L. Fisher	1083 / 778	0.14
169	2103 / 178	David & Vanessa Fisher	1108 / 565	0.12
170	2103 / 106	David A. & Vanessa L. Fisher	1083 / 778	0.31
171	2103 / 77	Board of Education	240 / 114	1.90
172	2103 / 95	Steve & Gwen Lake	1268 / 659	0.15
173	2103 / 90	Rhonda Martin	1551 / 277	0.14
174	2103 / 89	Board of Education	593 / 315	0.13
175	2103 / 83	Board of Education	593 / 315	0.13
176	2103 / 76	Board of Education	593 / 315	0.13
177	2103 / 69	Board of Education	593 / 315	0.13
178	2103 / 62	Board of Education	593 / 315	0.13
179	427 / 1	Walter E. Nutter & David H. Nutter	W154 / 301	228.23
180	426 / 62	Dorothy Dawson	W148 / 1062	16.13
181	426 / 36	George Wesley & Amy June Dawson	1310 / 247	61.96
182	426 / 35.5	Lost Creek Salvage LLC	1503 / 933	11.53
183	426 / 35.8	Lost Creek Salvage LLC	539 / 1088	85.23
184	426 / 12	Annette J. Cobun	1496 / 38	84.79
185	406 / 48	Annette J. Cobun	1496 / 39	15.43
186	406 / 47	Annette J. Cobun	1496 / 39	72.13
187	406 / 24	Clearnece H. Ford, II & Connie Ferguson	414 / 352	160.49
188	406 / 25	Isaac, III & Betty Jean Maxwell	1599 / 934	255.21
189	406 / 27	James Stout	W181 / 308	43.50
190	406 / 10	Forest Raymond	350 / 96	45.00
191	406 / 10.1	Forest Raymond	1306 / 1105	32.27
192	406 / 12.1	David S. Cale, et al	1618 / 1125	1.33
193	406 / 10.1	Forest Raymond	1306 / 1105	32.27
194	406 / 11	Mildred Stout	1138 / 993	44.80
195	427 / 26.2	David A. & Vanessa L. Fisher	1101 / 533	13.75

FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO. WGA  
47 - 033 0601  
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 **08/27/2021**

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: \_\_\_\_\_ ACREAGE: 78.20

PROPOSED WORK:  DRILL  CONVERT  DRILL 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: 23,509' 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

**HG Energy II Appalachia, LLC**  
**Well No. Schoen 1205 N-4H**  
**1205 N-4H**



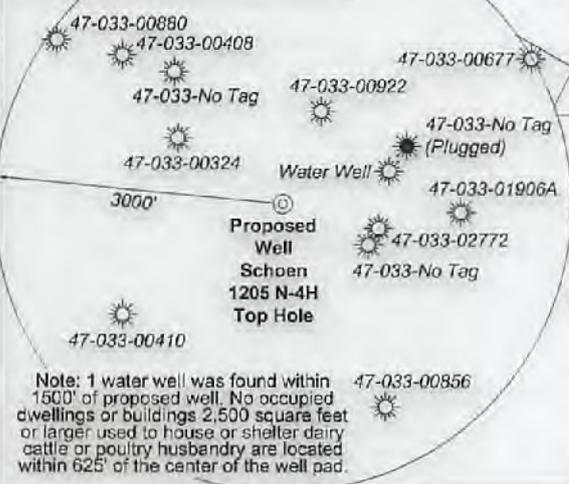
Schoen 1205 N-4H Bottom Hole

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



- 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-4H  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Top Hole coordinates	Bottom Hole coordinates
Latitude: 39°09'08.25"	Latitude: 39°11'41.04"
Longitude: 80°21'07.61"	Longitude: 80°21'54.54"
UTM Zone 17, NAD 1983	
Top Hole Coordinates	Bottom Hole Coordinates
N: 4,333,887.076m	N: 4,338,588.894m
E: 555,997.625m	E: 554,838.158m

Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.

**Notes:**  
 Well No. Schoen 1205 N-4H  
 UTM NAD 1983 (USSF)

Top Hole Coordinates	Bottom Hole Coordinates
N: 14,218,761.17'	N: 14,219,591.33'
E: 1,824,135.54'	E: 1,825,489.11'

Landing Point Coordinates  
 N: 14,222,645.30'  
 E: 1,824,282.57'

Deflection Point Coordinates  
 N: 14,234,187.05'  
 E: 1,820,331.52'

ID	Lease
3	Emory L. Stout, et ux
8	Porter Maxwell, et al
12	Frank Swisher, et al
14	Mollie V. Bassell, et al
19	Emma A. Post, et vir, et al
35.01	Emily Post Fenton
35.02	William F. Vieweg
35.03	Terrance L. Bassell
35.04	Ano Minerals, LLC
35.05	Alicia N. & Donald Thompson
35.06	NAJ, LLC
35.07	Judith A. Suess Memear
35.08	Isaac H. Maxwell, III, et ux
35.09	Isaac H. Maxwell, III, et ux
35.10	Kimberly Smith Wriston
35.11	WV DOT Rail Authority
35.12	Stanley J. Colaman, et ux
35.13	Stanley J. Coleman
35.14	Shannon Q. & Sarah R. Pritts
35.43	Allen Stalnaker, et ux
39	Willa Post Robey, et al
40	Charlotte C. Gerlach, et vir
41	D.L. Nutter, et ux
55	French S. Young, et ux

Tag	Bearing	Dist.
L1	N 54°46' W	1,105.8'
L2	S 79°00' W	1,193.9'
L3	S 70°58' E	1,190.0'
L4	S 83°32' E	1,492.9'
L5	N 58°29' E	1,587.9'

9,015' to Top Hole  
 5,324' to Top Hole  
 BTM LATITUDE 39 - 12 - 30  
 TOP LATITUDE 39 - 10 - 00  
 LONGITUDE 80 - 20 - 00  
 5,234' to Top Hole  
 4,952' to Bottom Hole

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

FILE NO: 32-36-G-19  
 DRAWING NO: Schoen 1205 N4H Well Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

DATE: July 16 2021  
 OPERATOR'S WELL NO. Schoen 1205 N-4H  
 API WELL NO  
 47 - 033 - 06011  
 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: 7,240' TVD  
 23,509' MD

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



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 2 of 5

Detail 1 (NTS)



FILE NO: 32-36-G-19  
 DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
 OPERATOR'S WELL NO. Schoen 1205 N-4H  
 API WELL NO 47-033-06013  
 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: Grant  
 ACREAGE: 65.00

SURFACE OWNER: George & Rosanne Schoen

ROYALTY OWNER: Willia 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  
23,509' MD

WELL OPERATOR: HG Energy II Appalachia, LLC  
 ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

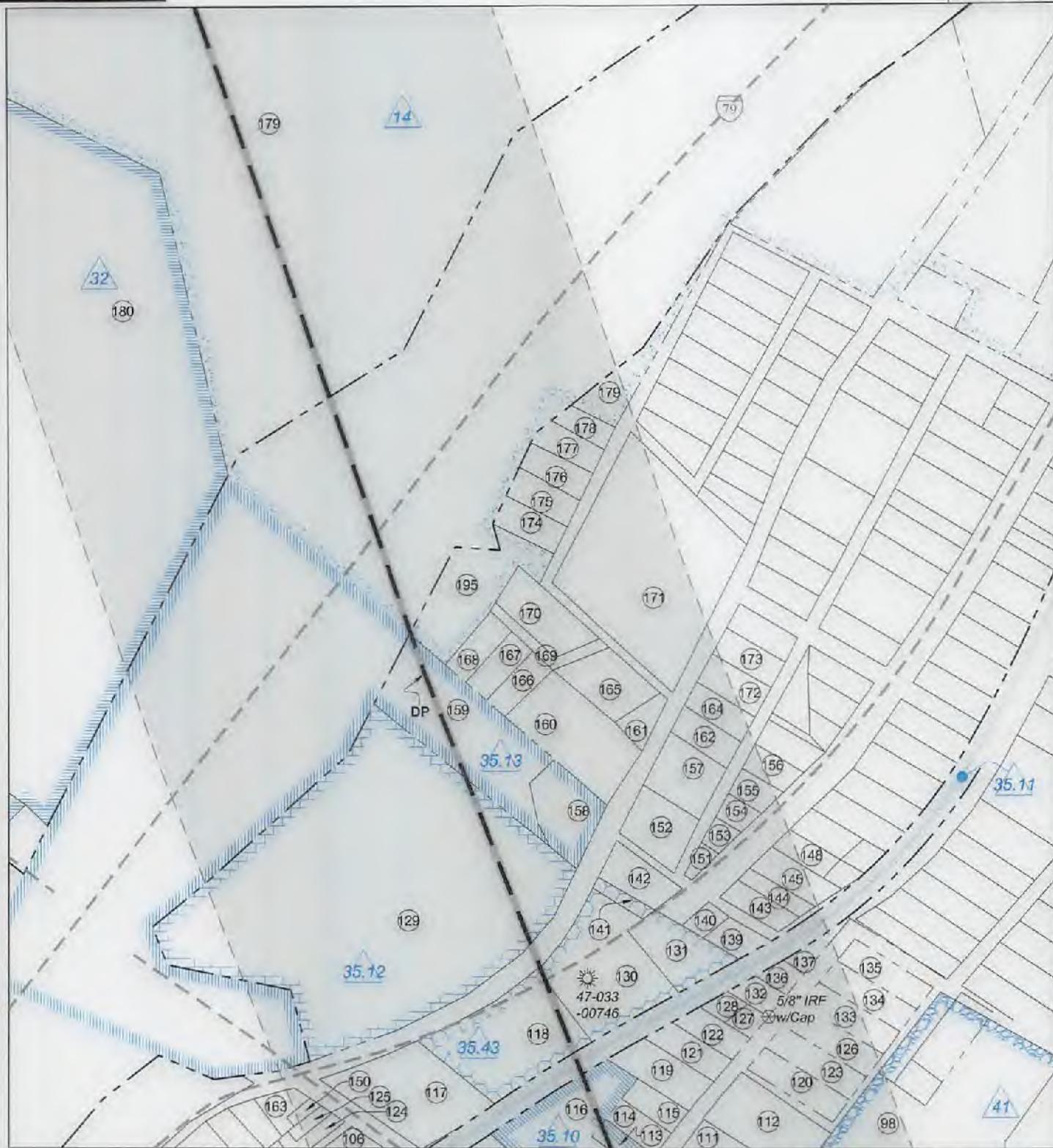
DESIGNATED AGENT: Diane C. White  
 ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 3 of 5

Detail 2 (NTS)



FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 20 21  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO. ~~HA~~  
47 - 033 - ~~0609~~  
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: 08/27/2021  
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: 7,240' TVD 23,509' 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



**HG Energy II  
Appalachia, LLC  
Well No. Schoen  
1205 N-4H**

Page 4 of 5

**Well Location References  
Not to Scale**



**Wellhead Layout (NTS)**



No.	TM / Par	Owner	Bk / Pg	Ac.
1	447 / 2	George & Roseanna Schoen	1148 / 1059	65.00
2	447 / 3	George & Roseanna Schoen	1253 / 302	10.06
3	447 / 3.4	Stephen M. & Kimberly Goff	1257 / 169	7.67
4	447 / 3.5	Charlotte Gerlach	1288 / 503	1.35
5	447 / 4.11	Joseph & Karen Bowers	1295 / 867	21.87
6	447 / 3.3	Charlotte C. Gerlach	1070 / 1041	8.10
7	447 / 3.2	Michael Tillman & Mary Hencke	1257 / 193	5.86
8	447 / 1	Dale H. Jordan	1437 / 672	6.70
9	427 / 32	Dale Jordan	1437 / 672	4.85
10	2105 / 123	Helen J. Vernon	W189 / 882	0.06
11	2105 / 115	Eugebe R. & Sharron L. Smith	1039 / 160	0.18
12	2105 / 114	Eugene R. & Sharon L. Smith	1039 / 160	0.27
13	2105 / 113	Roberts A. & Ruby A. Marks	1251 / 504	0.39
14	2105 / 111	Robert M. & Connie J. Lewis	1518 / 814	0.45
15	2105 / 40	Robert A. & Ruby A. Marks	1251 / 504	0.52
16	2105 / 110	Herman Suttia, et al	1345 / 1030	0.21
17	2105 / 105	Ronald Maxwell	1580 / 1167	---
18	2105 / 98	Joshua Bumer & Nicole Hebb	1417 / 1075	1.39
19	2105 / 84	Joshua & Nicole Burner	1460 / 892	0.11
20	2105 / 95	Joseph Swick	1460 / 694	0.17
21	2105 / 89	James Frank Roby, et al	1491 / 941	0.50
22	2105 / 127	Dale Jordan	1626 / 1024	0.07
23	2105 / 128	Dale Jordan	1505 / 430	0.07
24	2105 / 82	Dale Jordan	1626 / 1024	0.11
25	2105 / 126	Dale Jordan	1626 / 1024	0.05
26	2105 / 83	Dale Jordan	1626 / 1024	0.15
27	2105 / 96	David B. & Thresa G. Davis	1263 / 196	0.20
28	2105 / 106	Ronald Maxwell	1580 / 1167	0.26
29	2105 / 107	Ronald Maxwell	1580 / 1167	0.20
30	2105 / 108	Ronald Maxwell	1580 / 1167	0.20
31	2105 / 109	Herman Suttia, et al	1345 / 1030	0.14
32	2105 / 39	Carol S. Bennett	1382 / 250	0.54
33	2105 / 38	Carol S. Bennett	1382 / 250	0.13
34	2105 / 37	Carol S. Bennett	1382 / 250	0.14
35	2105 / 35	Benjamin S. Yoke, et al	1544 / 1241	0.26
36	2105 / 104	Joshua R. & Stephanie L. Stalder	1525 / 989	0.23
37	2105 / 103	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
38	2105 / 102	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
39	2105 / 101	Joshua R. & Stephanie L. Stalder	1525 / 989	0.20
40	2105 / 100	Jeffrey A. Bassell, et al	W190 / 188	0.40

No.	TM / Par	Owner	Bk / Pg	Ac.
41	2105 / 97	Tredi I. Tharp	1560 / 188	0.44
42	2105 / 87	David G. & Mary E. Short	1328 / 845	0.14
43	2105 / 86	David G. & Mary E. Short	1328 / 845	0.13
44	2105 / 85	Dale Jordan	1626 / 1024	0.11
45	2105 / 84	Dale Jordan	1626 / 1024	0.11
46	2105 / 125	Kenny J. & Randi E. Welch	1633 / 147	0.01
47	2105 / 78	Kenny J. & Randi E. Welch	1633 / 147	0.22
48	2105 / 80	Dale Jordan	1626 / 1024	0.11
49	2104 / 103	Daniel L. & Carla Ann Toothman	1436 / 151	0.32
50	2104 / 101	Willis Gene Kennedy	1412 / 590	0.14
51	2104 / 98	Willis Gene Kennedy	1412 / 590	0.54
52	2105 / 24	Charles M. & Joyce L. Hall	1364 / 280	0.40
53	2105 / 13	NAJ, LLC	1614 / 281	1.38
54	2105 / 13.1	Rodney K. Cooper, Sr., et al	W198 / 852	0.53
55	2105 / 28	Rebecca D. Stafford	1462 / 259	0.28
56	2105 / 29	Jeffrey A. Bassell, et al	W190 / 188	0.13
57	2105 / 30	Jeffrey A. Bassell, et al	W190 / 188	0.11
58	2105 / 31	William B. & Amy M. Messenger	1324 / 983	0.13
59	2105 / 32	William B. & Amy M. Messenger	1324 / 983	0.13
60	2105 / 33	Tracey R. Beall	1344 / 1213	0.19
61	2105 / 34	Tracey R. Beall	1344 / 1213	0.06
62	2105 / 18	Tracey R. Beall	1344 / 1213	0.80
63	2105 / 19	Town of Lost Creek	1110 / 480	1.01
64	2105 / 17	Town of Lost Creek	1110 / 505	---
65	2105 / 16.1	Lisa K. Maxwell	1515 / 823	0.19
66	2105 / 16	Ruth A. Backwell	1655 / 1214	0.25
67	2105 / 27	Shannon Q. & Srah R. Pitts	1333 / 203	0.38
68	2105 / 26	Shannon Q. & Sarah R. Pitts	1333 / 203	---
69	2105 / 16.2	Town of Lost Creek	1400 / 1227	0.25
70	2105 / 15	Town of Lost Creek	1110 / 473	---
71	2105 / 14	David A. & Linda J. Fulmer	1467 / 325	0.18
72	427 / 33	Isaac & Betty Maxwell	1539 / 141	72.00
73	2104 / 96	Virginia May Harding	1054 / 1005	0.35
74	2105 / 6	Jimmie Langford Groves	1315 / 47	0.38
75	2105 / 5	Pamela & Stacy Ash Dutton	1388 / 865	0.33
76	2105 / 4	Sherman Riffie	1436 / 1331	0.27
77	2105 / 2	Sherman Riffie	1436 / 1331	0.71
78	2105 / 2.2	Gary Jones	1506 / 332	0.25
79	2105 / 2.1	Gary Jones	1506 / 332	0.17
80	2105 / 1	Gary Jones	1506 / 332	0.63
81	2103 / 175.2	Gary Jones	1506 / 332	0.05
82	2103 / 176.1	Patricia Booth	1301 / 834	0.46
83	2104 / 29.1	Walter Nutter	W154 / 30	---
84	2104 / 29	Keth E. Linger	1558 / 577	0.72
85	2104 / 39	Lost Creek UMC	1327 / 242	3.39
86	2103 / 176	Daniel T. & Lisa Booth	1311 / 899	0.43
87	2103 / 175	Daniel T. & Lisa Booth	1311 / 899	---
88	2104 / 28	Lisa I. Wageman	1239 / 457	0.06
89	2104 / 12	Parsons Ridge, LLC	1358 / 569	0.31
90	2104 / 27	Lost Creek UMC	786 / 520	---
91	2104 / 26	Trustees MP Church	144 / 447	---
92	2104 / 11	Lisa Wageman	1239 / 457	0.18
93	2104 / 10	George W. Dawson	1418 / 331	0.19
94	2104 / 25	Lost Creek UMC	1327 / 159	0.55
95	2104 / 9	Southern Area Library Inc.	1149 / 42	0.06
96	2104 / 8	Sharon Carol Smith	1286 / 730	0.44
97	2103 / 174	Betty Jean Maxwell	1315 / 502	1.50
98	2103 / 162	Betty Jean Maxwell	1315 / 502	4.20
99	2103 / 173	Issac & Betty Maxwell	1327 / 238	0.58
100	2103 / 172	Issac & Betty Maxwell	1428 / 684	0.50

FILE NO: 32-36-G-19

DRAWING NO: Schoen 1205 N4H 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: July 16, 2021

OPERATOR'S WELL NO. Schoen 1205 N-4H

API WELL NO. 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

QUADRANGLE: Top: Mount Clare Btm: West Milford

DISTRICT: Grant / Union

COUNTY: 08/27/2021

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: \_\_\_\_\_ ACREAGE: 78.20

PROPOSED WORK:  DRILL  CONVERT  DRILL 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 23,509' 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-4H**

Page 5 of 5

No.	TM / Par	Owner	Bk / Pg	Ac.
101	2103 / 171.1	Dennis W. & Rose M. Chamberlain	1491 / 105	0.16
102	2104 / 7	Harrison County Bank	1064 / 1081	0.46
103	2104 / 25.1	Harrison County Bank	1067 / 224	0.13
104	2104 / 21	Associated Pharmacists	1362 / 948	0.10
105	2104 / 6	Town of Lost Creek	1396 / 283	---
106	2104 / 5	Sue Bennett	1132 / 132	0.29
107	2103 / 169	Chamberlain Brothers, Inc.	1206 / 1228	0.24
108	2103 / 170.1	Kimberly & Sharon Wriston	W83 / 97	0.29
109	2103 / 171	Carla McGlumphy	1398 / 55	0.09
110	2103 / 164	Carla McGlumphy	1398/55	0.06
111	2103 / 167	Timothy Maxwell	1541 / 298	0.50
112	2103 / 161	Cathy D. Bennett	F115 / 867	0.51
113	2103 / 164.1	Kimberly P. Smith, et al	1064 / 787	0.17
114	2103 / 165	Cathy D. Bennett	F115 / 867	0.12
115	2103 / 166	Cathy D. Bennett	F115 / 867	0.12
116	2103 / 170	Kimberly Wriston, et al	W87 / 97	0.54
117	2103 / 168	Chamberlain Brothers Inc.	1206 / 1228	0.75
118	2103 / 163	Chamberlain Brothers Inc.	1206 / 1228	0.79
119	2103 / 152	Cathy D. Bennett	F115 / 867	0.26
120	2103 / 160	Amanda Nutter	1437 / 204	0.21
121	2103 / 153	Jerry A. Hebb, et al	1307 / 78	0.16
122	2103 / 154	Barbara Jo Butcher	1446 / 539	0.13
123	2103 / 159	Brian Riffle	1507 / 119	0.20
124	2104 / 4	Carol S. Bennett	1582 / 290	0.07
125	2104 / 3	Town of Lost Creek	1110 / 493	---
126	2103 / 158	Sharon L. Smith, et al	F96 / 94	0.20
127	2103 / 155.1	Barbara Jo Butcher	1446 / 539	0.06
128	2103 / 155	Sharon L. Smith, et al	F96 / 94	---
129	427 / 26	Stanley & Marilyn Coleman	1236 / 37	5.57
130	2103 / 150	Darrell W. & Kathryn Goldsmith	1314 / 124	1.01
131	2103 / 150.1	John & Beth Elko	1358 / 606	0.31
132	2103 / 156	Mark Alan Duty	1581 / 305	0.05
133	2103 / 147	Sharon Smith, et al	F96 / 94	0.20
134	2103 / 133	Sharon Smith, et al	F96 / 94	0.19
135	2103 / 134	Kathryn Lynn Goldsmith, et al	1630 / 492	0.19
136	2103 / 146	Joshua Cogar, et al	W174 / 683	0.04
137	2103 / 132	Joshua Cogar, et al	W174 / 683	---
138	2104 / 39.1	Lost Creek UMC	1327 / 159	0.31
139	2103 / 145	Joshua Cogar	W174 / 683	0.11
140	2103 / 144	Joshua T. Cogar	1476 / 90	0.07
141	2103 / 149.1	Erika Langford & Aimee Ziemann	1597 / 972	0.07
142	2103 / 143	Erika Langford & Aimee Ziemann	1597 / 972	0.16
143	2103 / 131	Joshua Cogar	1476 / 90	0.13
144	2103 / 130	Joshua Cogar	W174 / 683	0.13
145	2103 / 129	Joshua Cogar	W174 / 683	0.19
146	2104 / 22	Associated Pharmacists	1362 / 948	0.04
147	2104 / 23	Associated Pharmacists	1362 / 948	0.07
148	2103 / 127	David & Brenda Cogar	1516 / 166	0.13
149	2104 / 20	Susan Randall, et al	W111 / 841	0.07
150	2104 / 2	Denny W. Chamberlain	1436 / 1170	0.03

No.	TM / Par	Owner	Bk / Pg	Ac.
151	2103 / 121	David N. Daugherty	1499 / 649	0.03
152	2103 / 120	David N. Daugherty	1367 / 808	0.30
153	2103 / 122	David N. Daugherty	1499 / 649	0.05
154	2103 / 123	Randall B. Burrows, Jr.	1549 / 737	0.07
155	2103 / 124	Susan E. Desjardins	1664 / 73	0.08
156	2103 / 111	Susan E. Desjardins	1664 / 73	0.11
157	2103 / 119	David N. Daugherty	1423 / 404	0.30
158	427 / 26.1	Everett & Richard Casto	1390 / 822	0.34
159	427 / 26.3	Harold & Wilford Vanhorn	1230 / 301	1.03
160	2103 / 118	Judith Vanhorn	1428 / 1118	0.60
161	2103 / 109.1	Betty & Emerson Vanhorn	1601 / 43	0.10
162	2103 / 110	Board of Education	376 / 483	0.14
163	2104 / 1	Denny W. Chamberlain	1436 / 1170	0.13
164	2103 / 101	Board of Education	376 / 483	0.14
165	2103 / 108	Emerson & Betty Vanhorn	1601 / 43	0.32
166	2103 / 117	David A. & Vanessa L. Fisher	1083 / 778	0.14
167	2103 / 116	David A. & Vanessa L. Fisher	1083 / 778	0.14
168	2103 / 115	David A. & Vanessa L. Fisher	1083 / 778	0.14
169	2103 / 178	David & Vanessa Fisher	1108 / 565	0.12
170	2103 / 106	David A. & Vanessa L. Fisher	1083 / 778	0.31
171	2103 / 77	Board of Education	240 / 114	1.90
172	2103 / 95	Steve & Gwen Lake	1268 / 659	0.15
173	2103 / 90	Rhonda Martin	1551 / 277	0.14
174	2103 / 89	Board of Education	593 / 315	0.13
175	2103 / 83	Board of Education	593 / 315	0.13
176	2103 / 76	Board of Education	593 / 315	0.13
177	2103 / 69	Board of Education	593 / 315	0.13
178	2103 / 62	Board of Education	593 / 315	0.13
179	427 / 1	Walter E. Nutter & David H. Nutter	W154 / 301	228.23
180	426 / 62	Dorothy Dawson	W148 / 1082	16.13
181	426 / 36	George Wesley & Amy June Dawson	1310 / 247	61.86
182	426 / 35.5	Lost Creek Salvage LLC	1503 / 933	11.53
183	426 / 35.8	Lost Creek Salvage LLC	539 / 1088	85.23
184	426 / 12	Annette J. Cobun	1496 / 38	84.79
185	406 / 48	Annette J. Cobun	1496 / 39	15.43
186	406 / 47	Annette J. Cobun	1496 / 39	72.13
187	406 / 24	Clearnece H. Ford, II & Connie Ferguson	414 / 352	160.49
188	406 / 25	Isaac, III & Betty Jean Maxwell	1509 / 934	255.21
189	406 / 27	James Stout	W161 / 306	43.60
190	406 / 10	Forest Haymond	350 / 96	45.00
191	406 / 10.1	Forest Haymond	1306 / 1105	32.27
192	406 / 12.1	David S. Cale, et al	1618 / 1125	1.33
193	406 / 10.1	Forest Haymond	1306 / 1105	32.27
194	406 / 11	Mildred Stout	1138 / 993	44.80
195	427 / 26.2	David A. & Vanessa L. Fisher	1101 / 533	13.75

FILE NO: 32-36-G-19  
DRAWING NO: Schoen 1205 N4H 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: July 16 2021  
OPERATOR'S WELL NO. Schoen 1205 N-4H  
API WELL NO WGA  
47 - 033 - 0604  
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  
COUNT 08/27/2021  
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: 7,240' TVD  
23,509' 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

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

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

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

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

**\*\*See Attached Sheets\*\***

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WV Department of  
Environmental Protection

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

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

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

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

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

470330601

HG Energy II Appalachia, LLC - Schoen 1205 N-4H Lease Chain

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WV Department of Environmental Protection

1205 Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
39	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
40	ANTERO-5	12-0447-0003-0000, 12-0447-0003-0002, 12-0447-0003-0004, 12-0447-0003-0005,	ANTERO-5	JOHN H. GERLACH AND CHARLOTTE C. GERLACH	JACKSON L. SMITH DBA WEST VIRGINIA ENERGIES	NOT LESS THAN 1/8	1108	569
				JACKSON L. SMITH DBA WEST VIRGINIA ENERGIES	BERRY ENERGY CONSULTANTS AND MANAGER INC.	ASSIGNMENT	1140	674
				BERRY ENERGY CONSULTANTS AND MANAGER INC.	J AND J ENTERPRISES INC.	ASSIGNMENT	1110	890
				J AND J ENTERPRISES INC.	EASTERN AMERICAN ENERGY CORP.	ASSIGNMENT	1200	1100
				EASTERN AMERICAN ENERGY CORP.	ENERGY COOPERATION OF AMERICA	MERGER/NAME CHANGE	WVSOS	
				ENERGY COOPERATION OF AMERICA	ANTERO RESOURCES CORPORATION	ASSIGNMENT	1495	314
				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1671	74
				FRENCH S. YOUNG AND ANNA J. YOUNG	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	147	297
55	LC004920	12-447-0004-0001 12-447-0004-0002 12-447-0004-0003 12-447-0004-0004 12-447-0004-0005 12-447-0004-0006 12-447-0004-0007 12-447-0004-0008 12-447-0004-0009 12-447-0004-0010 12-447-0004-0011 12-447-0004-0012 12-447-0004-0013 12-447-0021-0000 12-447-0023-0000	Q100923000	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.	HG ENERGY II APPALACHIA, 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



14	LC066783	12-0427-0001-0000	Q100886000	RECEIVED Office of Oil and Gas JUL 26 2021	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	
				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					
19	LC066611	12-0426-0036-0000 12-0426-0052-0000	Q100795000	WV Department of Environmental Protection	EMMA A. POST AND HOWARD POST, HER HUSBAND; AND LOUISE AXELVANDRE, SINGLE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	979	94
				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.	LIMITED PARTIAL ASSIGNMENT	1543	1235	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL 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					
12	LC066951	12-0406-0049-0000 12-0405-0041-0000 12-0105-0042-0000 12-0405-0047-0001 12-0406-0041-0000 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, ELIA 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	NOT LESS THAN 1/8	952	156	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DFED	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.	LIMITED PARTIAL ASSIGNMENT	1543	1235	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL 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					
		12-0406-0021-0000		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	

8	LC052223	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	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.	LIMITED PARTIAL ASSIGNMENT	1543	1235				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL 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				
				3	LC071305	12-0406-0010-0001 12-0406-0011-0000 12-0406-0012-0001 12-0406-0027-0000	Q100508000	EMORY L. STOUT AND ELZIA P. STOUT, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	985	94
								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.	LIMITED PARTIAL ASSIGNMENT	1543					1235				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL 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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470330601



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

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July 19, 2021

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

RE: Drilling Under Roads – Schoen 1205 N-4H  
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](mailto: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

JUL 26 2021

WV Department of  
Environmental Protection

08/27/2021

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

Date of Notice Certification: 02/15/2021

API No. 47- 033 - 06011  
Operator's Well No. Schoen 1205 N-4H  
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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>555997.6</u>
County: <u>Harrison</u>		Northing: <u>4333887.1</u>
District: <u>Grant</u>	Public Road Access: <u>McWhorter Road</u>	
Quadrangle: <u>Mount Clare</u>	Generally used farm name: <u>Schoen</u>	
Watershed: <u>Middle West Fork Creek</u>		

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

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
<p>RECEIVED Office of Oil and Gas JUL 26 2021 WV Department of Environmental Protection</p>	

**Required Attachments:**

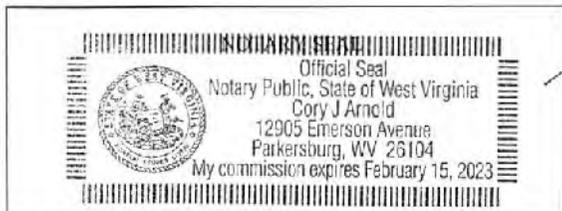
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

08/27/2021

**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 15th day of February, 2021.

*Cory J. Arnold* Notary Public

My Commission Expires 2-15-2023

**Oil and Gas Privacy Notice:**

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

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JUL 26 2021  
WV Department of  
Environmental Protection

WW-6A  
(9-13)

API NO. 47- 033 - 06011  
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:** ~~11/23/20~~ 7/26/21

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.

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: \_\_\_\_\_

COAL OWNER OR LESSEE  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

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**JUL 26 2021**

COAL OPERATOR  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

WV Department of  
Environmental Protection

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

SURFACE OWNER(s) (Impoundments or Pits)  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

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

08/27/2021

JUL 26 2021

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

08/27/2021

WW-6A  
(8-13)

API NO. 47- 033 - 06011  
OPERATOR WELL NO. Schoen 1205 N-1H to S-10H  
Well Pad Name: Schoen 1205

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

Office of Oil and Gas

JUL 26 2021

Env. & Nat. Resources

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> 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.**

08/27/2021

**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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Environmental Protection

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WW-6A  
(8-13)

API NO. 47- 033-06011  
OPERATOR WELL NO. Schoen 1205 14-1H to 6-12H  
Well Pad Name: Schoen 1205

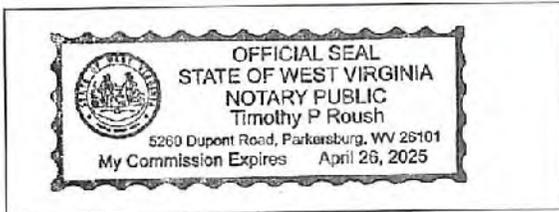
**Notice is hereby given by:**

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 [deprivacvofficer@wv.gov](mailto:deprivacvofficer@wv.gov).

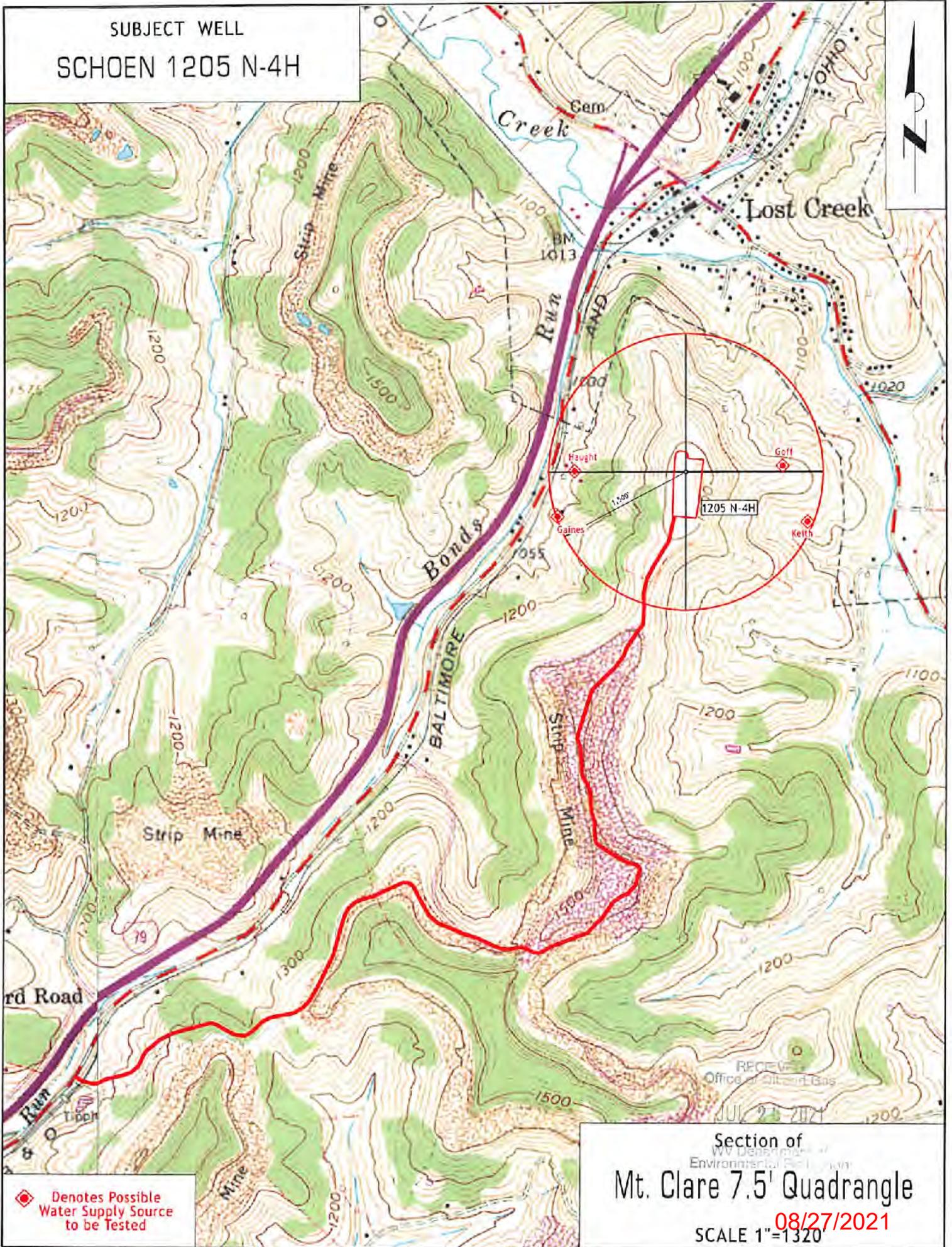


Subscribed and sworn before me this 1 st day of September, 2020.  
[Signature] Notary Public  
My Commission Expires 4/26/2025

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JUL 26 2021  
WV Department of  
Environmental Protection

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SUBJECT WELL  
SCHOEN 1205 N-4H



◆ Denotes Possible Water Supply Source to be Tested

Section of  
WV Department of Environmental Protection  
Mt. Clare 7.5' Quadrangle

08/27/2021  
SCALE 1"=1320'

WW-6A

(8-13)

Page 1 Continued

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

Marilyn Gaines /  
1191 McWhorter Road  
Lost Creek, WV 26385

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

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

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

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

REC'D  
Office RECEIVED  
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JUL 26 2021  
WV  
WV Department of  
Environmental Protection

08/27/2021







WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

**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 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Schoen 1205 Pad, Harrison County  
Schoen N-4H Well Site ✓

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Office of O

JUL 9 2020

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*

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

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

4703306011

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

Chemical Name	CAS #	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2
		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
		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	

RECEIVED  
Office of Oil and Gas  
JUL 26 2021  
WV Department of  
Environmental Protection

08/27/2021

4703306011

# CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS

## HG 1205 WELL PAD

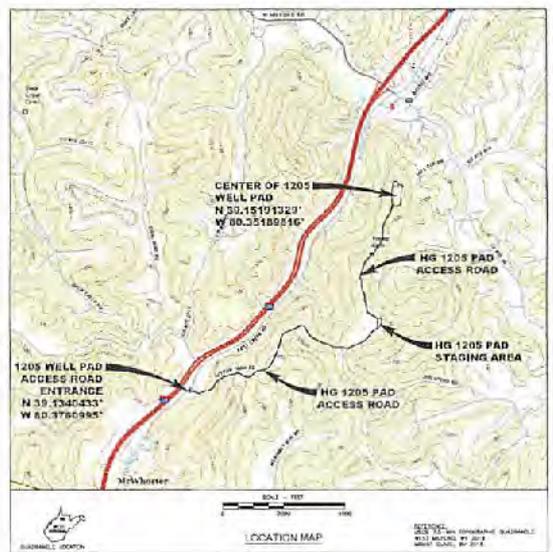
SHT. NO.	SHEET TITLE
1	TITLE SHEET
2A-2K	SITE DEVELOPMENT PLANS
3	WELL PAD SECTIONS
4A-4D	ACCESS ROAD SECTIONS
5A-5F	CONSTRUCTION NOTES & DETAILS
6A-6J	RESTORATION PLAN
7A-7D	PROPERTY MAP

GRANT DISTRICT  
HARRISON COUNTY  
WEST VIRGINIA

RECEIVED  
Office of Oil and Gas  
JUL 26 2021  
WV Department of Environmental Protection

DESCRIPTION	DATE	BY	REVISION
1. Proposed Land Use/Management Plan			
2. Proposed Erosion and Sediment Control Plan			
3. Proposed Access Road Plan			
4. Proposed Well Pad Plan			
5. Proposed Staging Area Plan			
6. Proposed Access Road Plan			
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98. Proposed Staging Area Plan			
99. Proposed Access Road Plan			
100. Proposed Well Pad Plan			

- 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 1-800-245-4845 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and lines 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 construct on, 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 florax, and complete implementation of stormwater BMPs in the final 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**  
5200 BURCH ROAD  
PARKERSBURG, WEST VIRGINIA 26101  
(304) 420-1100

PREPARED BY  
**PENN ENVIRONMENTAL & REMEDIATION, INC.**  
111 RYAN COURT  
PITTSBURGH, PA 15205  
(412) 722-1222

SOW  
7/22/2021

1205 WELL PAD ACCESS ROAD ENTRANCE	LATITUDE	LONGITUDE
	N 36.1340433°	W 80.3739992°

WELL #	WELL CAT.	LONG.
W-5A	N	36.1334888 W 80.3518727
W-5B	N	36.1334827 W 80.3518728
W-5C	N	36.1333807 W 80.3518658
W-5D	N	36.1333457 W 80.3518683
W-5E	N	36.1333507 W 80.3518658
W-5F	N	36.1311847 W 80.3520488
W-5G	N	36.1311827 W 80.3520504
W-5H	N	36.1311820 W 80.3520502
W-5I	N	36.1311822 W 80.3520504
W-5J	N	36.1311843 W 80.3520508

WELL INFORMATION: 1422-19  
1205-19

APPROVED  
WVDEP OOG  
12/1/2020

NO.	DATE	DESCRIPTION
1	08/17/2020	ISSUED PERMITS AND CHANNEL MODIFICATION
2	08/17/2020	ISSUED PERMITS
3	08/17/2020	ISSUED PERMITS
4	10/22/2020	ISSUED PERMITS
5	11/17/2020	ISSUED PERMITS
6	11/25/2020	ISSUED PERMITS



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

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

WEST VIRGINIA **CALL BEFORE YOU DIG!** Dial 811 or 800.245.4848

APPROVED: [Signature] DATE: 12/1/2020  
DESIGNED: [Signature] DATE: 12/1/2020  
DRAWN: [Signature] DATE: 12/1/2020  
PROJECT BY: 4033-PASE1118

**Penn E&R**  
Environmental & Remediation, Inc.  
111 RYAN COURT, PITTSBURGH, PA 15205  
412-722-1222

PROJECT NUMBER: P0007316-C01  
SHEET: 1

DATE PLOTTED: 12/1/2020 10:22:18 AM; USER: JEFFREY.WALKER; PROJECT: HG 1205 PAD; SHEET: 1 OF 10

