



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Thursday, December 3, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for SCHOEN 1205 S-7H
47-033-05995-00-00

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 handwritten signature in blue ink, appearing to read 'James A. Martin'.

James A. Martin
Chief

Operator's Well Number: SCHOEN 1205 S-7H
Farm Name: GEORGE & ROSANNE SCHOE
U.S. WELL NUMBER: 47-033-05995-00-00
Horizontal 6A New Drill
Date Issued: 12/3/2020

Promoting a healthy environment.

PERMIT CONDITIONS**4703305995**

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

CONDITIONS

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

PERMIT CONDITIONS

4703305995

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



west virginia department of environmental protection

Office of Oil and Gas
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Austin Caperton, Cabinet Secretary
dep.wv.gov

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

TO: HG Energy, LLC
5260 Dupont Circle
Parkersburg, WV 26101

DATE: November 30, 2020
ORDER NO.: 2020-W-6

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

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

CONCLUSIONS OF LAW

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

ORDER

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

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

Thus ORDERED, the 30th day of November 2020.

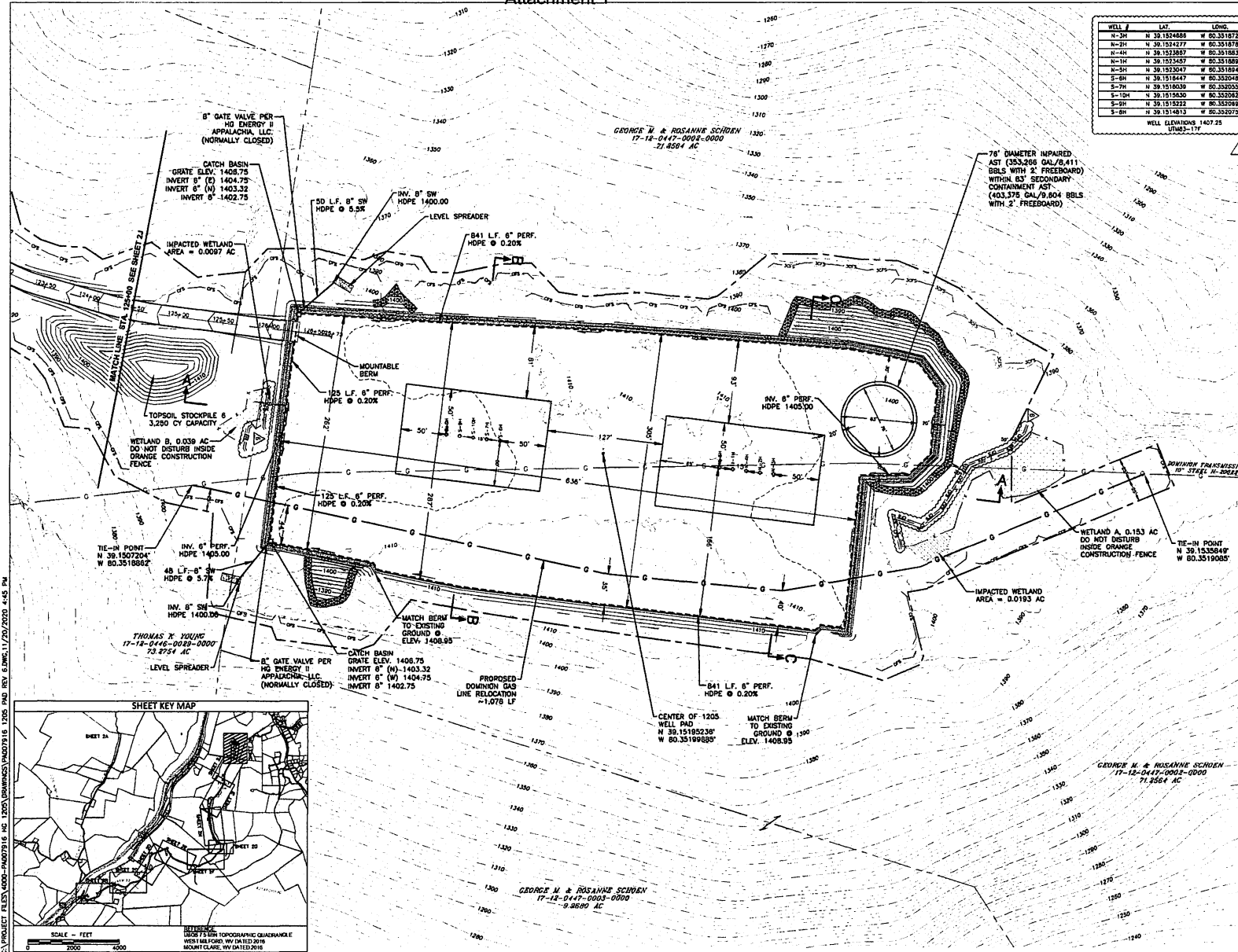
IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: **James Martin** Digitally signed by James Martin
Date: 2020.11.30 17:14:46 -05'00'

JAMES A. MARTIN, CHIEF

Attachment 1



WELL #	LAT	LONG
N-2H	N 39.153488	W 80.3518727
N-2H	N 39.1524277	W 80.3518782
N-4H	N 39.1523857	W 80.3518838
N-4H	N 39.1523437	W 80.3518893
N-5H	N 39.1523017	W 80.3518949
S-6H	N 39.1518447	W 80.3520488
S-7H	N 39.1518027	W 80.3520544
S-7H	N 39.1518000	W 80.3520592
S-9H	N 39.1515222	W 80.3520980
S-9H	N 39.1514813	W 80.3520728

WELL ELEVATIONS 1407.75
LWM3-17F

LEGEND

—	PROPOSED ROCK CHECK DAM
—	PROPOSED RIPRAP APRON
—	PROPOSED ACCESS ROAD/PAD CHANNEL
—	PROPOSED CONDUIT FILTER SOCK 6" UNLESS OTHERWISE NOTED
—	PROPOSED STACKED CONDUIT FILTER SOCK 6"
—	PROPOSED ORANGE CONSTRUCTION FENCE
—	APPROXIMATE LIMITS OF DISTURBANCE
—	APPROXIMATE CUT/FILL LINE
—	APPROXIMATE LIMITS OF LOAN SURVEY
—	APPROXIMATE PROPERTY LINE
—	EXISTING INDEX CONTOUR
—	EXISTING INTERMEDIAN CONTOUR
—	PROPOSED SUBGRADE INDEX CONTOUR
—	PROPOSED SUBGRADE INTERMEDIAN CONTOUR
—	EXISTING ACCESS ROAD
—	EXISTING OVERHEAD UTILITY LINE
—	EXISTING GAS LINE
—	PROPOSED GAS LINE (BY OTHERS)
—	SECTION (SEE SHEET 3)
—	EXISTING WETLAND
—	PROPOSED TIE BENCH (SEE FILL BENCH DETAIL)
—	PROPOSED EROSION CONTROL BLANKET

- SEE GENERAL NOTES**
- ALL PROPOSED ELEVATIONS SHOWN ON PLAN SHEETS REFLECT SUBURRAL
 - REFER TO SHEET WITH THE CONSTRUCTION NOTES AND DETAILS
 - CONSTRUCTION SHALL BE COMPLETED WITHIN 90 DAYS FROM THE DATE OF PERMIT ISSUANCE
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REVISIONS

REVISION	DATE	DESCRIPTION
1	08/17/2020	QUANTITY UPDATE AND CHANNEL MODIFICATIONS
2	08/17/2020	CLIENT REVISIONS
3	09/18/2020	REVISED PER OWNER COMMENTS
4	10/28/2020	REVISED PER CLIENT COMMENTS
5	11/12/2020	CLIENT WELL REVISIONS
6	11/26/2020	REVISED PER OWNER COMMENTS

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL AFFAIRS
DIVISION OF WATER RESOURCES
20450
STATE OF WEST VIRGINIA
DIVISION OF WATER RESOURCES
11/11/2020

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

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

APPROVED: MEP 03/31/2020
CHECKED: CAC 03/30/2020
DRAWN: MPE 03/30/2020
PROJECT NO.: 4000-14079115
DRAWING NUMBER: PA007915-001
SHEET: 2K

Penn E&R
Environmental & Remediation, Inc.
111 RYAN COURT, PITTSBURGH, PA 15205
412-222-1221

C:\PROJECT FILES\WOOD-PAD07915_02_1205\DRAWINGS\PA007915_16_1205_PND_REV_0.DWG, 11/20/2020, 4:45 PM

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Schoen 1205 S-7HWell Operator: HG Energy II Appalachia, LLCWell Number: Schoen 1205 S-7HWell Pad Name: HG 1205 PadCounty, District, Quadrangle of Well Location: Harrison County, Grant District, Mount Clare Quad

Answer the questions below to request a waiver from West Virginia Department of Environmental Protection for any wetlands or perennial streams which lie within one hundred feet of proposed project Limit of Disturbance (LOD), which includes any erosion and sediment control devices to be used.

This waiver shall be requested pursuant to Chapter 22 Article 6A Section 12 of West Virginia Code, which states:

§22-6A-12(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.

§22-6A-12(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.

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Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Schoen 1205 S-7H

Answer in the space provided, or use additional pages as necessary to fully answer the questions below:

- 1. Describe the proposed project location, including unique identifying names of all wetlands, and the names of perennial streams for which the waiver is sought.**

Based on 7.5-minute USGS topographic mapping (see the Cover Sheet of the HG 1205 Pad Drawing Set), there are no perennial streams within 100 feet of the Limit of Disturbance (LOD).

The following wetlands are within 100 feet of the LOD:

Wetland A (0.153 acre total, 0.0193 acre impacted)
Wetland B (0.039 acre total, 0.0097 acre impacted)
Wetland C (0.019 acre, not impacted)
Wetland D (0.131 acre, not impacted)
Wetland E (0.175 acre, 0.0233 acre impacted)

- 2. Justify the proposed activity by describing alternatives to this project that were considered.**

- a. Include a No-Action Alternative as to show "the future without the project"
- b. Location Alternatives must be shown
- c. Must demonstrate why a one hundred foot buffer cannot be maintained
- d. Describe how the proposed project is the least environmentally damaging practicable alternative

a. The No-Action Alternative for this site is the HG 1205 well pad not being constructed. This results in HG not utilizing acquired assets, and landowners not receiving anticipated compensation for leased land.

b. See attached Figure 1. Location to northwest was evaluated, but was not feasible due to layout issues and landowner agreements.

c. One hundred foot buffer to wetlands cannot be maintained due to construction limits required to construct the HG 1205 well pad. The site and access road are limited by topographic constraints (steep slopes).

d. The proposed HG 1205 well pad is the least environmentally damaging practicable alternative as it avoids perennial streams, minimizes impacts to wetlands, utilizes an existing access road as much as practicable, and does not disturb any riparian buffers

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Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: Schoen 1205 S-7H

- 3. Identify sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. This description should include all additional erosion and sediment control measures and devices that will be used.**

The contractor shall delineate sensitive areas, LOD, and shall install barriers where equipment may not be parked, stage, operated, or located for any purpose before construction activities commence. E&S controls will be installed as necessary during initial site access to minimize accelerated erosion and sedimentation. Perimeter controls (compost filter sock) shall be installed immediately after the site is accessed. Land clearing and grading shall commence only after all downslope E&S controls have been constructed and stabilized. E&S controls shall be maintained during all construction activities. Upon completion of construction, stabilization will be provided including seeding & mulching. Temporary controls shall be removed only once the site is stabilized. A 2' berm will be constructed around the pad to capture any discharges. A french drain will be installed on the perimeter of the pad to capture any runoff from the well pad surface. The french drain consists of 6" perforated HDPE pipe, with an impermeable liner surrounding the backfill. The french drain will flow to a catch basin located on the pad. The basin outlets through an HDPE pipe with a gate valve installed. The valve shall be closed during any drilling activity or operations, and no discharge from the pad shall occur during drilling activities.

- 4. Provide mapping, plans, specifications and design analysis for the preferred alternative to the project.**

- a. Specify in writing what additional controls, measures, devices, monitoring, etc. will be used to protect these wetlands and/or perennial streams for which the waiver is sought.

See attached HG 1205 Pad Drawing Set. Wetland avoidance impact minimization will be accomplished with the installation of orange construction fencing by the contractor. Efforts shall be made to limit the amount of earth disturbance within the 100 foot buffer. All E&S controls shall be inspected on a regular basis. Damaged or improperly functioning E&S controls shall be replaced immediately.

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WW-6B
(04/15)

4703305995

API NO. 47- _____ - _____
OPERATOR WELL NO. Schoen 1205 S-7H
Well Pad Name: Schoen 1205

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

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

2) Operator's Well Number: Schoen 1205 S-7H 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

*SDW
8/27/2020*

6) Existing Pad: Yes or No No

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

8) Proposed Total Vertical Depth: 7240'

9) Formation at Total Vertical Depth: Marcellus

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10) Proposed Total Measured Depth: 22,015'

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11) Proposed Horizontal Leg Length: 13,807'

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Environmental Protection

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) ✓

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: _____

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	22014'	22014'	20% excess tail, CTS
Tubing							
Liners							

*SDW
8/27/2020*

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 Lead
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.19, tail yield 1.84
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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 13,807' lateral length, 22,014' 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 CaCl₂ 40% Excess Yield = 1.20, CTS
Intermediate 1 - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂ 40% 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 CaCl₂ 40% 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/sk FP13L + 0.3% bwoc MPA17020% Excess/Lead Yield=1.19/Tail 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.



4703305995

1205 S-7H
 Marcellus Shale Horizontal
 Harrison County, WV

		1205 S-7H SHL				14218476.58N 1824100.6E					
Ground Elevation	1407.3'		1205 S-7H LP				14217293.47N 1822165.37E				
Azm	159.798°		1205 S-7H BHL				14204340.33N 1826931.8E				

WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wall thickness
	24"	20" 94# J-55	Fresh Water	0	135, 480, 640, 728	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi
			Coal	730	736					
			Surface / FW	0	1200					
	17.5"	13-3/8" 68# J-55 BTC	Little/Big Lime	1467 / 1510	1482 / 1556	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on every joint <i>*will also be running ACP for isolating storage zone*</i>	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480" wall thickness Burst=3450 psi
			Injun / Gantz (Storage)	1565 / 1900	1690 / 1970					
			Intermediate 1	0	2100					
	12.25"	9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	1993 / 2112	2093 / 2147	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=3950 psi
			Gordon Stray / Gordon	2195 / 2250	2250 / 2310					
			5th Sand	2440	2468					
			Warren	2835	2860					
	8.5" Vertical	5-1/2" 23# P-110 HP CDC HTQ	Speechley	3028	3162	9.0ppg SOB	Lead: 14.5 ppg POZ PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note: Actual centralizer schedules may be changed due to hole conditions
			Bradford	3342	3367					
			Benson	4420	4455					
	8.5" Curve		Rhinestreet	5872	6549	11.5ppg-12.5ppg SOB		Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.		
Cashaqua			6549	6740						
Middlesex			6740	6870						
West River			6870	7003						
Burkett			7003	7048						
Tully Limestone			7048	7149						
Hamilton			7149	7214						
8.5" Lateral	Marcellus	7214	7315	11.5ppg-12.5ppg SOB						
	TMD / TVD (Production)	22014	7240							
			Onondaga	7315						

LP @ 7240' TVD / 8207' MD

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

+/-13807' ft Lateral

TD @ +/-7240' TVD
 +/-22014' MD

X=centralizers

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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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Tributyl phosphate	90 - 100	126-73-8																			
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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Sucrose	90 - 100	57-50-1																			
EC-1	Retarder	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>Calcium magnesium oxide</td> <td>90 - 100</td> <td>37247-91-9</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium magnesium oxide	90 - 100	37247-91-9												
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MPA-170	Gas Migration	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>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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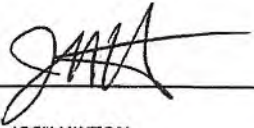
PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES: DOMINION FINK/KENNEDY/LOST CREEK -GANTZ SAND

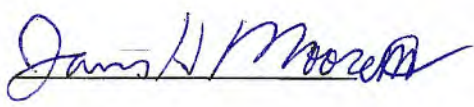
WELL NAME: Schoen 1205 S-7H

Well # 1205 S-7H

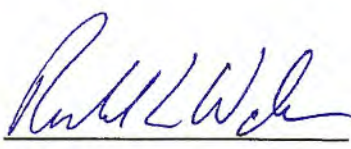
DISTRICT/COUNTY/STATE: Grant / Harrison / WV

Submitted 
JOSH HINTON
HG ENERGY, LLC

DATE 8-26-2020

Approved 
Dominion Energy Transmission

DATE 9/2/2020

Approved 
Dominion Energy Transmission

DATE 9/2/2020

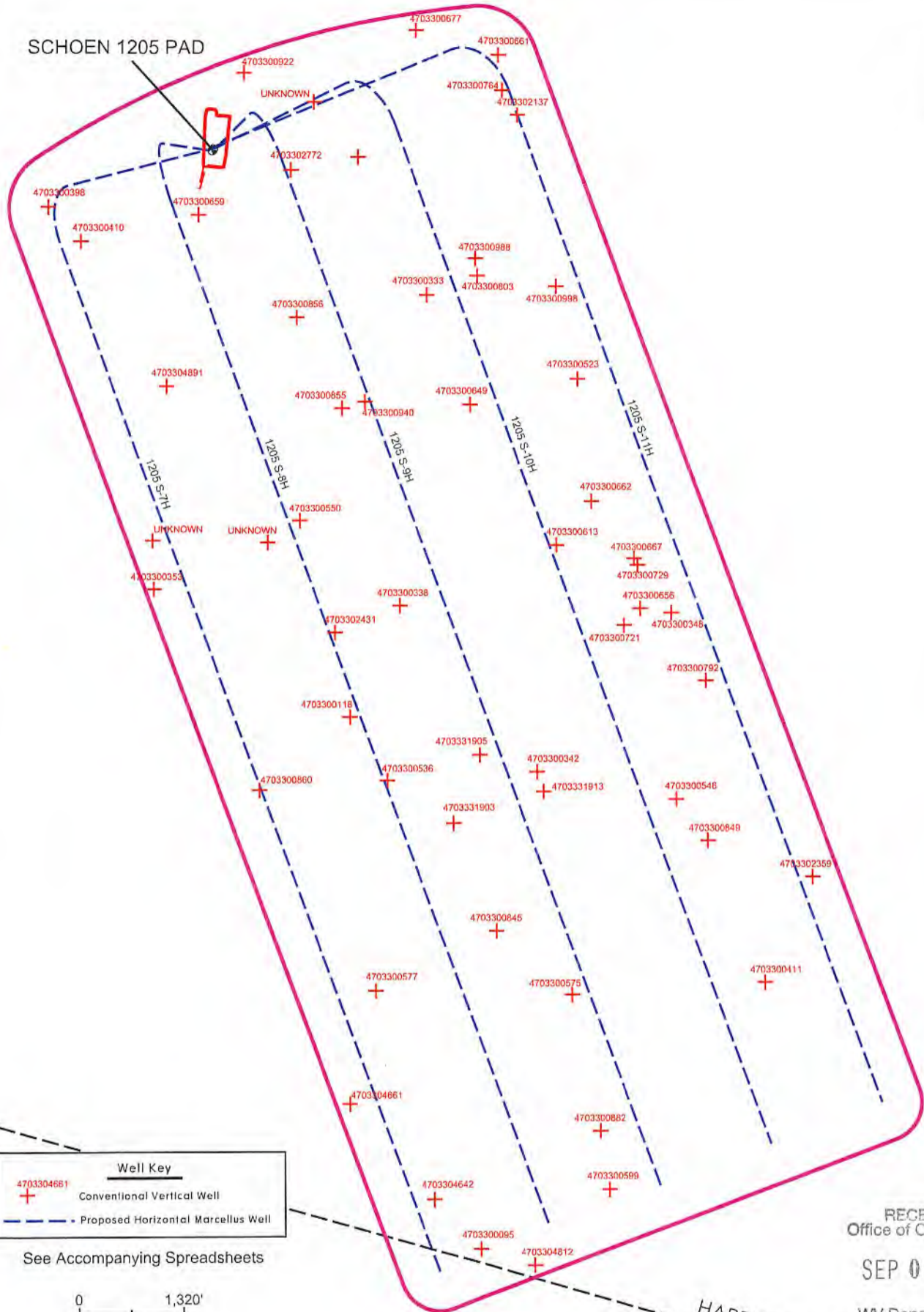
Comments:

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

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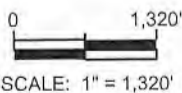
SCHOEN 1205 PAD



Well Key

- + 4703304661 Conventional Vertical Well
- - - Proposed Horizontal Marcellus Well

See Accompanying Spreadsheets



DATA SOURCES
WVGES Data Set - 2017; WVDEP Website

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HARRISON COUNTY
LEWIS COUNTY

Area of Review for:

SCHOEN 1205 SOUTH UNIT

Proposed 1205 S-7H Proposed 1205 S-8H Proposed 1205 S-9H
Proposed 1205 S-10H Proposed 1205 S-11H

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

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



7/8/2020

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

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

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300095	Harrison	A B Jackson 1	Dominion Energy Transmission, Inc.	Fifth	Storage	2219	ACTIVE	39.113482	-80.340584
2	4703300118	Harrison	O F Allman 1	Dominion Energy Transmission, Inc.	Gantz	Storage	1679	ACTIVE	39.131942	-80.346144
3	4703300333	Harrison	James M Waggoner	UNKNOWN	Hampshire Grp	Gas	2165	PLUGGED	39.146495	-80.342517
4	4703300338	Harrison	F S Young	Dominion Energy Transmission, Inc.	Gantz	Storage	1700	ACTIVE	39.135769	-80.343869
5	4703300342	Harrison	Asa Boyce	UNKNOWN	Fifth	Gas	2269	PLUGGED	39.129986	-80.337801
6	4703300348	Harrison	Sarah F Vincent	UNKNOWN	Hampshire Grp	Gas	2054	PLUGGED	39.135437	-80.331733
7	4703300353	Harrison	G M Curry et al	Dominion Energy Transmission, Inc.	Gordon (undiff)	Storage	2047	ACTIVE	39.136407	-80.354852
8	4703300398	Harrison	J N Rector	UNKNOWN	Thirty-foot	Storage	2002	PLUGGED	39.149633	-80.359418
9	4703300410	Harrison	E A Waggoner	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1964	ACTIVE	39.148438	-80.357974
10	4703300411	Harrison	W N Dawson CW513	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1920	ACTIVE	39.122627	-80.327748
11	4703300523	Harrison	Lewis C Swisher	Dominion Energy Transmission, Inc.	Gantz	Storage	1723	ACTIVE	39.143557	-80.335826
12	4703300536	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Benson	Gas	4410	ACTIVE	39.129739	-80.344514
13	4703300546	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Benson	Gas	4260	ACTIVE	39.128982	-80.331615
14	4703300550	Harrison	Lloyd D Swisher	Dominion Energy Transmission, Inc.	Benson	Dry w/ Gas Show	4320	PLUGGED	39.138747	-80.348299
15	4703300575	Harrison	Sidney Haymond	Dominion Energy Transmission, Inc.	Benson	Gas	4350	ACTIVE	39.122265	-80.336369
16	4703300577	Harrison	Sidney Cookman	Dominion Energy Transmission, Inc.	Benson	Gas	4356	ACTIVE	39.122467	-80.345146
17	4703300599	Harrison	Amanda E Smith	Dominion Energy Transmission, Inc.	Bayard	Gas	2512	ACTIVE	39.115515	-80.334818
18	4703300613	Harrison	Lewis C Swisher	Dominion Energy Transmission, Inc.	Benson	Gas	4457	ACTIVE	39.137811	-80.336839
19	4703300649	Harrison	G W Swisher	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2347	ACTIVE	39.142725	-80.340651
20	4703300656	Harrison	F S Young CW520	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	1894	PLUGGED	39.135593	-80.333125
21	4703300659	Harrison	S V Curry CW433	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1990	ACTIVE	39.149343	-80.352710
22	4703300661	Harrison	M S Davis CW538	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1885	ACTIVE	39.154774	-80.339266
23	4703300662	Harrison	L C Swisher CW527	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1759	ACTIVE	39.139321	-80.335262
24	4703300667	Harrison	G W Swisher CW525	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	1687	PLUGGED	39.137325	-80.333373
25	4703300677	Harrison	D L Nutter	Alliance Petroleum Co. LLC	Thirty-foot	Gas	1850	ABANDONED	39.155655	-80.342933
26	4703300721	Harrison	Harris Hrs CW521	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1948	PLUGGED	39.135023	-80.333850
27	4703300729	Harrison	F Wiant CW522	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1864	PLUGGED	39.137099	-80.333320
28	4703300764	Harrison	M S Davis CW533	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2028	PLUGGED	39.153552	-80.339108
29	4703300792	Harrison	L Snyder CW518	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1824	PLUGGED	39.133088	-80.330236
30	4703300803	Harrison	O Fallman CW430	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2125	PLUGGED	39.147150	-80.340268
31	4703300845	Harrison	S Haymond CW514	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2175	ACTIVE	39.124501	-80.339721
32	4703300849	Harrison	M M F Randolph CW573	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2000	ACTIVE	39.127556	-80.330228
33	4703300855	Harrison	Susan V Curry	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1877	ACTIVE	39.142614	-80.346345

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34	4703300856	Harrison	Susan V Curry CW472	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1950	ACTIVE	39.145753	-80.348358	
35	4703300860	Harrison	Burgett Swisher CW470	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1925	ACTIVE	39.129447	-80.350236	
36	4703300882	Harrison	Patricia B Smith	Dominion Energy Transmission, Inc.	Fifty-foot	Storage	1965	ACTIVE	39.117546	-80.335190	
37	4703300922	Harrison	A B Yost	Dominion Energy Transmission, Inc.	Benson	Gas	4455	ACTIVE	39.154204	-80.350633	
38	4703300940	Harrison	Susan Curry	Dominion Energy Transmission, Inc.	Benson	Gas	4256	ACTIVE	39.142820	-80.345334	
39	4703300988	Harrison	Levi B Davis CW431	Dominion Energy Transmission, Inc.	Fifth	Storage	2137	ACTIVE	39.147749	-80.340351	
40	4703300998	Harrison	S G Kennedy CW531	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	1910	ACTIVE	39.146770	-80.336744	
41	4703302137	Harrison	M S Davis	Dominion Energy Transmission, Inc.	Benson	Gas	4478	ACTIVE	39.152701	-80.338421	
42	4703302359	Harrison	W D Dawson	Dominion Energy Transmission, Inc.	Benson	Gas	4374	ABANDONED	39.126266	-80.325577	
43	4703302431	Harrison	J & F Allman	Dominion Energy Transmission, Inc.	Benson	Gas	4664	ACTIVE	39.134863	-80.346773	
44	4703302772	Harrison	J H & C Gerlach	Greylock Conventional, LLC	Benson	Gas	4427	ACTIVE	39.150855	-80.348565	
45	4703304642	Harrison	Myrtle B Arobogast	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4453	ACTIVE	39.115232	-80.342637	
46	4703304661	Harrison	Gloria M Coward	Dominion Energy Transmission, Inc.	Benson	Gas	4350	ACTIVE	39.118568	-80.346361	
47	4703304812	Harrison	Catherine Mauro	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4302	ACTIVE	39.112912	-80.338169	
48	4703304891	Harrison	Joseph C Queen	Dominion Energy Transmission, Inc.	not available	not available	-	PLUGGED	39.143411	-80.354188	
49	4703331903	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2164	ACTIVE	39.128236	-80.341573	
50	4703331905	Harrison	M F Randolph CW422	Dominion Energy Transmission, Inc.	UNKNOWN	Storage	2182	UNKNOWN	39.130586	-80.340370	
51	4703331913	Harrison	M M F Randolph	Dominion Energy Transmission, Inc.	UNKNOWN	not available	2345	PLUGGED	39.129301	-80.337525	
52	UNKNOWN	Harrison	J.J. Lewis	UNKNOWN	UNKNOWN	not available	-	PLUGGED	39.153186	-80.347510	
53	UNKNOWN	Harrison	Lloyd D Swisher 1656	UNKNOWN	UNKNOWN	not available	2036	UNKNOWN	39.138091	-80.354883	
54	UNKNOWN	Harrison	Lloyd D. Swisher	UNKNOWN	UNKNOWN	not available	2209	UNKNOWN	39.137999	-80.349742	
								YELLOW DENOTES WELL WITH TVD > 4,450'		GREEN DENOTES SURVEYED WELLS	

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

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(4/16)

API Number 47 - _____ - _____
Operator's Well No. Schoen 1205 S-7H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907

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

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

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

*SDW
8/27/2020*

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

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

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

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

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

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

-Landfill or offsite name/permit number? See Attached

Permittee shall provide written notice to the Office of Oil and Gas of any load of 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

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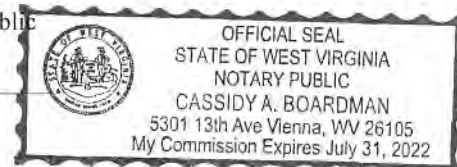
WV Department of
Environmental Protection

Subscribed and sworn before me this 19th day of August, 2020

Cassidy A. Boardman

Notary Public

My commission expires 7/31/2022



HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 29.465 Prevegetation pH _____

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: S. D. Warrick

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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Title: Oil & Gas Inspector

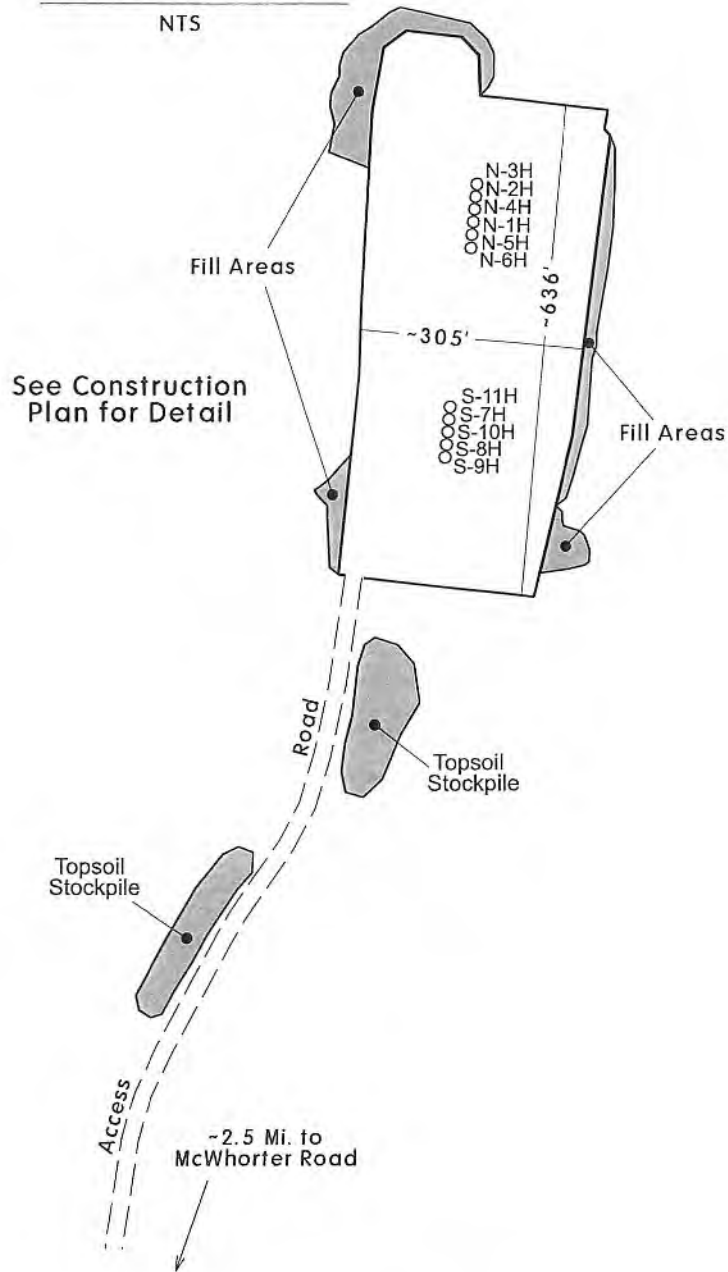
Date: 8/27/2020

Field Reviewed? Yes No

Reclamation Plan SCHOEN 1205

PAD DETAIL

NTS



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

Notes:

- REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELLS.
- LOCATION AND ACCESS ROADS WILL BE CONSTRUCTED AS SHOWN ON THE ENGINEERED DRAWINGS WHICH ACCOMPANY THIS PERMIT APPLICATION. REFERENCE IS HEREBY MADE TO THOSE PLANS FOR MORE DETAIL ON E&S MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH WVDEP RECLAMATION STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- NO DRILL PIT WILL BE CONSTRUCTED AND A CLOSED LOOP SYSTEM WILL BE UTILIZED TO HANDLE DRILL CUTTINGS.
- DRAWING NOT TO SCALE.



an For:
PAD

OL
OR
ND
G



George & Roseanne
Schoen
TM 447, Par. 2

See
Pad
Detail

TM 447, Par. 3

Vera & Ora
Haught
TM 446, Par. 15

David
Vanhorn
TM 446, Par. 28.2

Thomas Young,
John McCuskey II
Mary Brennon
TM 446, Par. 29

ACCESS ROAD

NTS

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

Sandra Hogsed
TM 446, Par. 38

Joseph
Queen
TM 447, Par. 32

Frank & Charles
Sutton
TM 446, Par. 48

Existing Road

TM 446, Par. 47

TM 447, Par. 43.1

Frank & Charles
Sutton
TM 466, Par. 17

Frank & Charles
Sutton
TM 466, Par. 18

Frank & Charles
Sutton
TM 466, Par. 19

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Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278
1875 Smith Two State Rd. Atlasburg, PA 15004
1-888-264-5227

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

Environmental Coordination Services & Recycling (ECS&R)
8297 US Highway 19
Cochranon, PA 16314
814-425-7773

Disposal Locations:

Apex Environmental, LLC Permit # 06-08488
11 County Road 78
Amsterdam, OH 43908
740-548-4888

Westmoreland Waste, LLC Permit # 100277
111 Conner Lane
Bella Vernon, PA 15012
724-828-7884

Sycamore Landfill Inc, Permit #R80-078001 05-2010
4301 Sycamore Ridge Road
Hurricane, WV 25526
304-562-2611

Max Environmental Technologies, Inc. Facility Permit # PAD004838146 / 801071
288 Max Lane
Yukon, PA 25968
724-722-3500

Max Environmental Technologies, Inc. Facility Permit # PAD05087072 / 801359
200 Max Drive
Buiger, PA 15018
724-756-1571

Waste Management Kelly Run Permit # 100663
1801 Park Side Drive
Elizabeth, PA 15087
412-384-7569

Waste Management South Hills (Arnoni) Permit # 100582
3100 Hill Road
Liberty, 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 # 1082
1488 Dawson Drive
Bridgeport, WV 26330

Brooke County Landfill Permit # SWP-108-87 / WV 0109028
Rd 2 Box 410
Colliers, WV 26035
304-748-0014

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

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

Energy Solutions Services, Inc. Permit # R-79006-L24
1560 Bear Creek Road
Oak Ridge, TN 37830

Northern A-J Environmental Services Permit ID MIP020908814
3947 US 131 North, PO Box 1030
Kalkaska, MI 49646
261-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485
3790 State Route 7
New Waterford, OH 44445
880-892-0184

Nahors Completion & Production Services Co.
PO Box 875682
Dallas, TX 75287-5682

Select Energy Services, LLC
PO Box 208997
Dallas, TX 75320-8997

Nuverra Environmental Solutions
11042 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
Lowellville, OH 44486
330-586-6825

Adams #1 (Buckeye Brine, LLC)
Permit # 34-031-2-7177
22986 Airport Road
Casshott, OH 43812
740-575-4484
512-478-8545

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

Force, Inc.
1380 Rte. 288 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 15622

Burns Drilling & Excavating
618 Crabapple Road P.O. Box
Wind Ridge, PA 15880

Nichols 1-A (SWIW #13)
Permit # 8862
300 Cherrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7275

Grosella (SWIW #34)
Permit # 4096
Rt. 88
Garrettsville, OH
718-278-4816

Karnble 1-D Well
Permit # 8780
7675 East Pike
Norwich, Oh 43767
614-648-8898
740-786-6485

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Adams #2 (Buckeye Brine, LLC)
2205 Westover Road
Austin TX 78708
Permit # 84-081-2-7178
740-575-4454
612-478-6545

Adams #8 (Buckeye Brine, LLC)
Permit #84-081-2-7241-00-00
2680 Exposition, Suite 117
Austin, TX 78708
612-478-6545

Mazana #1 Well (SWIW # 18)
Permit # 84-157-2-5511-00-00
8887 E. State Street
Newcomerstown, OH 48822
740-763-8966

Goff SWD #1 (SWIW # 27)
Permit # 84-119-2-8776-000
800 Charrington Pkwy, Suite 200
Coraopolls, PA 15108
412-828-7278

SCS D#1 (SWIW #12)
Permit # 84-059-2-4202-00-00
Silcor Oilfield Services, Inc.
2988 Hubbard Road
Youngstown, OH 44505

Dudley #1 UIC (SWIW #1)
Permit # 84-121-2-2458-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
804-665-2652

OH UIC #1, Bu keya UIC Barnesville 1 & 2
CNX Gas Company, LLC
1000 Consol Energy Drive
Permit # 84-013-2-0609-00-00
Permit # 84-013-2-0614-00-00
804-828-6568

US Steele 11385
Permit # 47-001-00561
200 Evergreen Drive
Waynesburg, PA 15780
804-828-6568

Chapin #7 UIC (SWIW #7)
Permit # 84-083-2-4187-00-00
Elkhead Gas & Oil Company
12168 Marna Rd. NE
Newark, OH 43035
740-763-8966

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HG Energy II Appalachia, LLC

Site Safety Plan

Schoen 1205 Well Pad

1279 Sutton Farm Rd

Lost Creek

Harrison County, WV 26385

August 2020: Version 1

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

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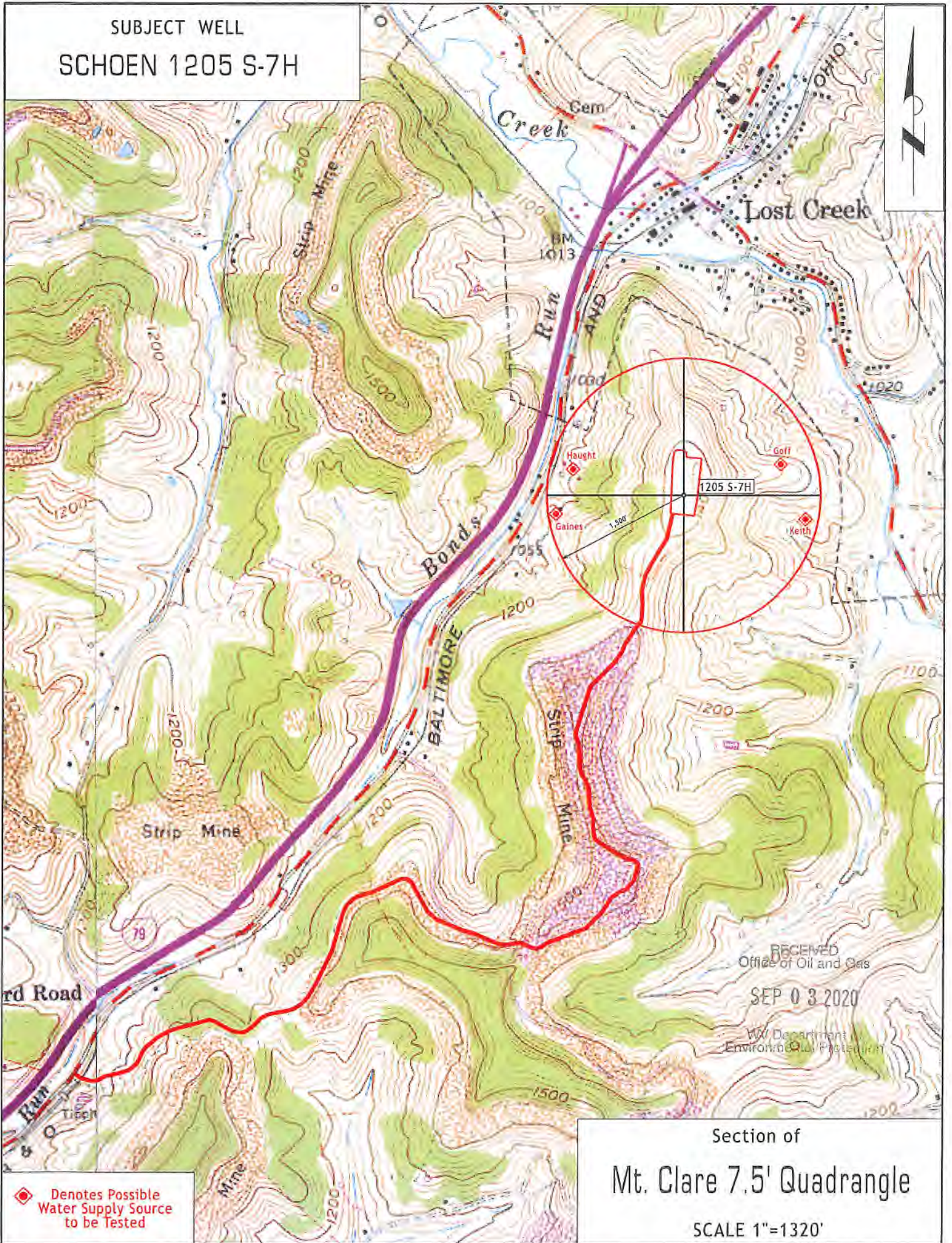
HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

SDUO
8/27/2020

SUBJECT WELL
SCHOEN 1205 S-7H



◆ Denotes Possible Water Supply Source to be Tested

Section of
Mt. Clare 7.5' Quadrangle

SCALE 1"=1320'

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HG Energy II Appalachia, LLC
Well No. Schoen 1205 S-7H

Page 1 of 2

2,634' to Bottom Hole

5,361' to Top Hole

TOP LATITUDE 39 - 10 - 00
BTM LATITUDE 39 - 07 - 30

LONGITUDE 80 - 20 - 00
4,503' to Bottom Hole

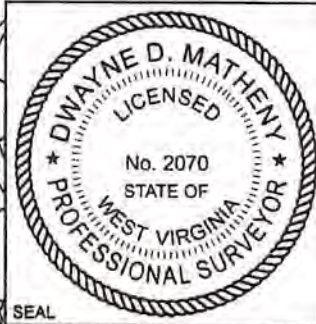
5,519' to Top Hole

Notes: Well No. Schoen 1205 S-7H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,476.58'
E: 1,824,100.60'
Landing Point Coordinates
N: 14,217,293.47'
E: 1,822,165.37'
Bottom Hole Coordinates
N: 14,204,340.33'
E: 1,826,931.80'



Bottom Hole
7.5' Spot

Top Hole
7.5' Spot

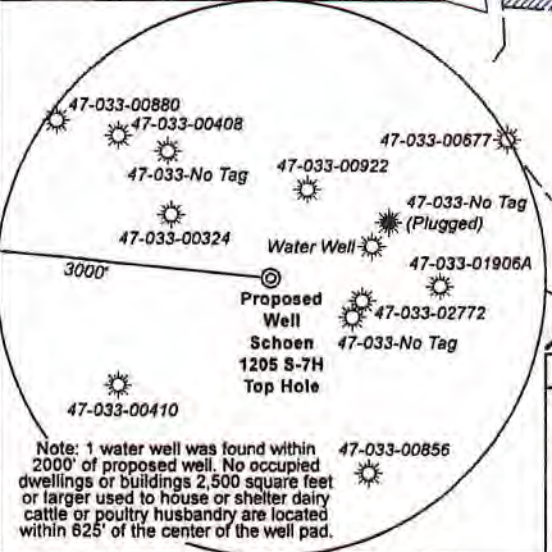


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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
 - - - Creek or Drain
 - - - Existing Road
 - - - Surface boundary (approx.)
 - - - Interior surface tracts (approx.)

Notes: Well No. Schoen 1205 S-7H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'05.44" Latitude: 39°06'45.47"
Longitude: 80°21'08.08" Longitude: 80°20'33.43"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,800.330m N: 4,329,491.592m
E: 555,986.978m E: 556,849.926m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.



Tag	Bearing	Dist
L1	S 72°38' E	1,517.6'
L2	S 58°19' E	1,280.9'
L3	N 85°48' W	1,221.8'
L4	N 69°22' W	1,002.5'
L5	S 58°34' W	2,268.2'

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SEP 03 2020
WV Department of Environmental Protection

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 S-7H 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: March 30 2020
OPERATOR'S WELL NO. Schoen 1205 S-7H
API WELL NO 46A
47 - 033 - 05995
STATE COUNTY PERMIT

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

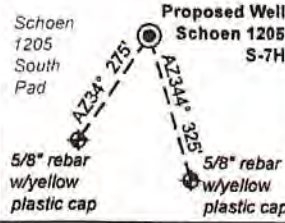
LOCATION: ELEVATION: 1,407.3' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Hackers Creek
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al
LEASE NO: _____ ACREAGE: 78.20

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: 22,015' MD

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

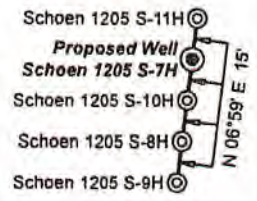
Well Location References
Not to Scale



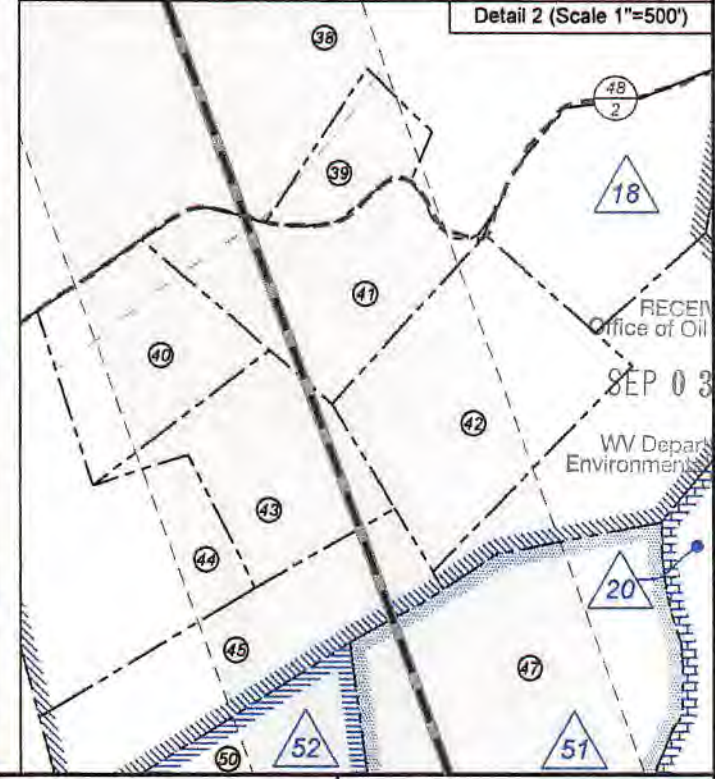
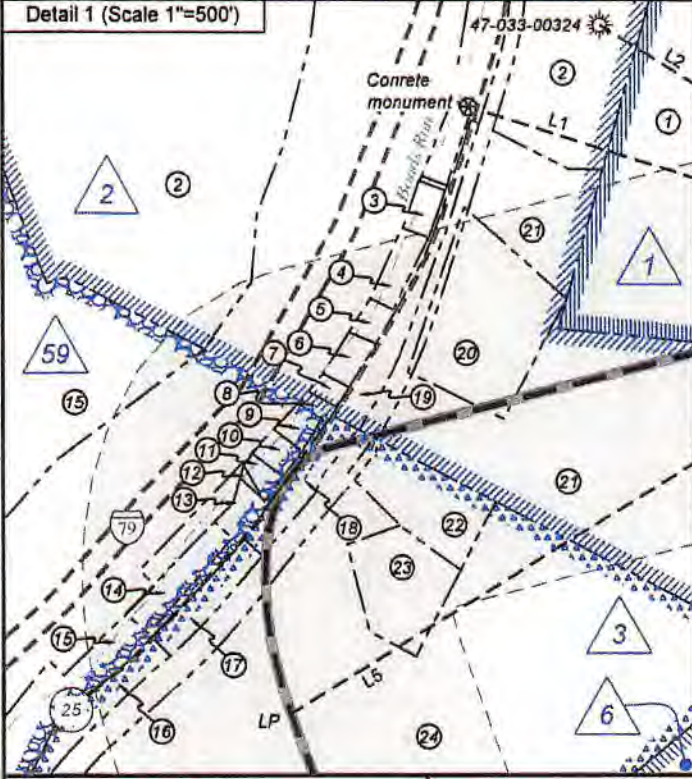
Harrison County				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	447 / 2	George & Rosanne Schoen	1148 / 1059	85.00
2	446 / 7	James R. & Sharon L. Allman	1437 / 165	91.97
3	446 / 10	Karen A. Hayes	1397 / 1136	0.25
4	446 / 11	Mildred Dean	1060 / 270	0.41
5	446 / 13.1	Mack & Thelma Samples	1578 / 761	0.21
6	446 / 13	Kimberly Vanscoy	1306 / 5	0.27
7	446 / 14	Lisa Dawn Grogg	1583 / 301	0.14
8	446 / 25	Lisa Dawn Grogg	1583 / 301	0.08
9	446 / 26.1	Robert Mendez Jr.	1435 / 330	0.18
10	446 / 24.5	Brooke & Lillie Swisher	1432 / 856	0.15
11	446 / 24.1	Brooke & Lillie Swisher	1432 / 856	0.15
12	446 / 24.4	Brooke & Lillie Swisher	1432 / 856	0.03
13	446 / 24.2	Daniel & Mary L. Frazier	W165 / 1065	0.20
14	446 / 24.3	Mark & Karen Wilt	1157 / 579	0.58
15	446 / 24	Robert N. Rector	1621 / 719	82.90
16	446 / 28.1	Andrew Schrader & Melinda Davis	1478 / 252	1.28
17	446 / 28.3	Sharon Willie	1349 / 1253	0.45
18	446 / 28	Larry E. Wilson II	1344 / 1211	0.57
19	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
20	446 / 12	Marilyn Gaines	1192 / 300	2.93
21	446 / 15	Vera E. Oral K. Haught	1582 / 896	14.40
22	446 / 28.5	Robert L. Vanhorn	1352 / 91	1.52
23	446 / 28.4	Bradford Vanhorn	1381 / 1181	1.52
24	446 / 28.2	David D. Vanhorn, et al	W177 / 92	42.66
25	446 / 29	John F. McCuskey II, et al	1121 / 25	75.00
26	446 / 39	Sandra J. Hogsed	1257 / 137	70.16
27	447 / 32	Joseph C. Queen	1349 / 508	36.00
28	447 / 43	Betty J. & Isaac H. Maxwell III	1543 / 141	123.95
29	447 / 43.1	Joseph C. Queen	1349 / 508	17.16
30	446 / 48	Charles R. & Franklin L. Sutton	--- / ---	88.00
31	466 / 19	Charles R. & Franklin L. Sutton	--- / ---	63.00
32	467 / 1	Margaret L. Gyimesi	1306 / 775	78.79
33	467 / 29.1	Charles R. & Franklin L. Sutton	--- / ---	129.61
34	467 / 29	Gretna J. Adkins	1207 / 424	8.39
35	467 / 30.1	Charles R. & Franklin L. Sutton	--- / ---	11.05

ID	Lease
1	Willa Post Robey
2	John F. McCusky, et ux
3	Emma A. Waggoner, et al
6	Susan V. Curry, et al
9	Charles P. Maxwell, et al
11	P.T. Allman
14	Paul E. Randolph, et al
18	Sidney Cookman, et al
20	Mike Ross, Inc.
47	G. Manley Curry, et al
51	Myrtle B. Arbogast
52	Myrtle Arbogast
53	Carolyn McCue Mullet, et al
54	G. Manley Curry, et ux
55	Willa E. Ware, et al
59	J.N. Rector
63	Myrtle Arbogast, et al

Wellhead Layout (NTS)



Harrison County				
No.	TM / Par	Owner	Bk / Pg	Ac.
36	467 / 33	Charles R. & Franklin L. Sutton	1472 / 181	39.20
37	466 / 56	Charles R. & Franklin L. Sutton	--- / ---	110.00
38	466 / 49	Charles R. & Franklin L. Sutton	--- / ---	105.17
39	467 / 49.1	Jane E. & Cody R. Bail	1570 / 114	2.08
40	487 / 2.1	Travis & Lauren J. Williston	1576 / 490	5.00
41	467 / 50	David L. & Celia K. Radcliff	1314 / 1289	6.00
42	467 / 51.2	Gary Jedrosko	1561 / 1064	8.38
43	487 / 2.2	Travis & Lauren J. Williston	1576 / 490	5.12
44	487 / 2	Mark Hutson	1410 / 156	10.17
45	487 / 10	Donley W. & Mark Hutson	1410 / 164	6.85
46	487 / 4.1	Catherine A. Mauro	1244 / 135	95.45
47	487 / 3	Myrtle B. Arbogast	W148 / 426	29.17
48	487 / 4.2	Catherine A. Mauro	1244 / 135	5.00
49	487 / 4	Catherine A. Mauro	1244 / 135	4.36
Lewis County				
50	10C / 2	Myrtle B. Arbogast	W17 / 218	78.64
51	10C / 11	Thomas C. Kennedy Testamentary Trust	W34 / 428	92.50



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SEP 03 2020
WV Department of Environmental Protection

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 S-7H 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: March 30 20 20
OPERATOR'S WELL NO. Schoen 1205 S-7H
API WELL NO. H464
47 - 033 - 05995
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 / Hackers Creek
SURFACE OWNER: George & Rosanne Schoen
ROYALTY OWNER: Willa Post Robey, et al LEASE NO: ACREAGE: 78.20

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 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: 22,015' 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

Top: Mount Clare
QUADRANGLE: Btm: Berlin
COUNTY: Harrison / Lewis
ACREAGE: 65.00

5,361' to Top Hole
2,634' to Bottom Hole

TOP LATITUDE 39 - 10 - 00
BTM LATITUDE 39 - 07 - 30

LONGITUDE 80 - 20 - 00
4,503' to Bottom Hole
5,519' to Top Hole

Notes: Well No. Schoen 1205 S-7H
UTM NAD 1983 (USSF)
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Landing Point Coordinates
N: 14,217,293.47'
E: 1,822,165.37'
Bottom Hole Coordinates
N: 14,204,340.33'
E: 1,828,931.80'

Legend

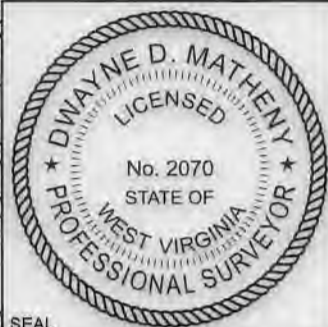
- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Existing Plugged Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Notes: Well No. Schoen 1205 S-7H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'05.44" Latitude: 39°08'45.47"
Longitude: 80°21'08.08" Longitude: 80°20'33.43"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,800.330m N: 4,329,491.592m
E: 555,986.976m E: 556,849.926m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.



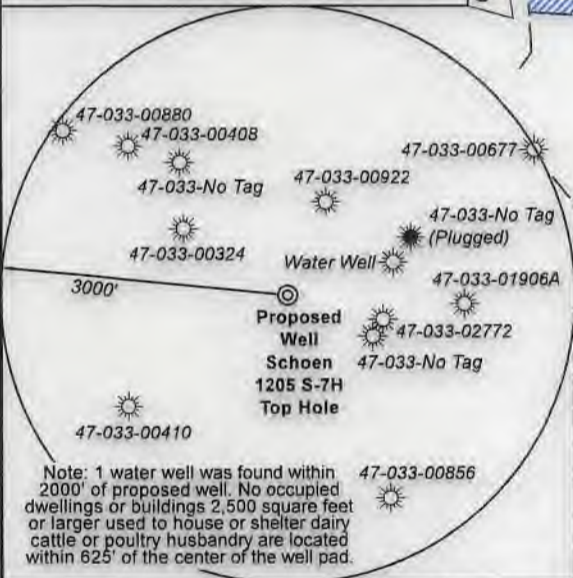
Bottom Hole 7.5' Spot

Top Hole 7.5' Spot



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



Tag	Bearing	Dist.
L1	S 72°38' E	1,517.6'
L2	S 58°19' E	1,280.9'
L3	N 85°48' W	1,221.8'
L4	N 69°22' W	1,002.5'
L5	S 58°34' W	2,268.2'

FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 S-7H 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: March 30 20 20
OPERATOR'S WELL NO. Schoen 1205 S-7H
API WELL NO. 47-033-05915
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: Berlin

DISTRICT: Grant / Hackers Creek

COUNTY: Harrison / Lewis

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

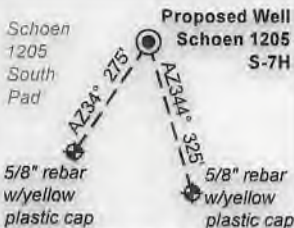
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,240' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,015' 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

Well Location References
Not to Scale



Harrison County				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	447 / 2	George & Rosanne Schoen	1148 / 1059	65.00
2	446 / 7	James R. & Sharon L. Allman	1437 / 165	91.97
3	446 / 10	Karen A. Hayes	1397 / 1136	0.25
4	448 / 11	Mildred Dean	1060 / 270	0.41
5	446 / 13.1	Mack & Thelma Samples	1578 / 761	0.21
6	446 / 13	Kimberly Vanscoy	1306 / 5	0.27
7	446 / 14	Lisa Dawn Grogg	1583 / 301	0.14
8	446 / 25	Lisa Dawn Grogg	1583 / 301	0.08
9	446 / 26.1	Robert Mendez Jr.	1435 / 330	0.18
10	446 / 24.5	Brooke & Lillie Swisher	1432 / 856	0.15
11	446 / 24.1	Brooke & Lillie Swisher	1432 / 856	0.15
12	446 / 24.4	Brooke & Lillie Swisher	1432 / 856	0.03
13	446 / 24.2	Daniel & Mary L. Frazier	W165 / 1065	0.20
14	446 / 24.3	Mark & Karen Wilt	1157 / 579	0.58
15	446 / 24	Robert N. Rector	1621 / 719	82.90
16	446 / 28.1	Andrew Schrader & Melinda Davis	1478 / 252	1.28
17	446 / 28.3	Sharon Willie	1349 / 1253	0.45
18	446 / 28	Larry E. Wilson II	1344 / 1211	0.57
19	446 / 15.1	David & Grace Hughes	1257 / 694	0.31
20	446 / 12	Marilyn Gaines	1192 / 300	2.93
21	446 / 15	Vera E. Oral K. Haught	1582 / 896	14.40
22	446 / 28.6	Robert L. Vanhorn	1352 / 91	1.52
23	446 / 28.4	Bradford Vanhorn	1381 / 1181	1.52
24	446 / 28.2	David D. Vanhorn, et al	W177 / 92	42.66
25	446 / 29	John F. McCuskey II, et al	1121 / 25	75.00
26	446 / 39	Sandra J. Hogsed	1257 / 137	70.16
27	447 / 32	Joseph C. Queen	1349 / 508	36.00
28	447 / 43	Betty J. & Isaac H. Maxwell III	1543 / 141	123.95
29	447 / 43.1	Joseph C. Queen	1349 / 508	17.16
30	446 / 48	Charles R. & Franklin L. Sutton	--- / ---	88.00
31	466 / 19	Charles R. & Franklin L. Sutton	--- / ---	63.00
32	467 / 1	Margaret L. Gyimesi	1306 / 775	78.79
33	467 / 29.1	Charles R. & Franklin L. Sutton	--- / ---	129.61
34	467 / 29	Gretna J. Adkins	1207 / 424	8.39
35	467 / 30.1	Charles R. & Franklin L. Sutton	--- / ---	11.05

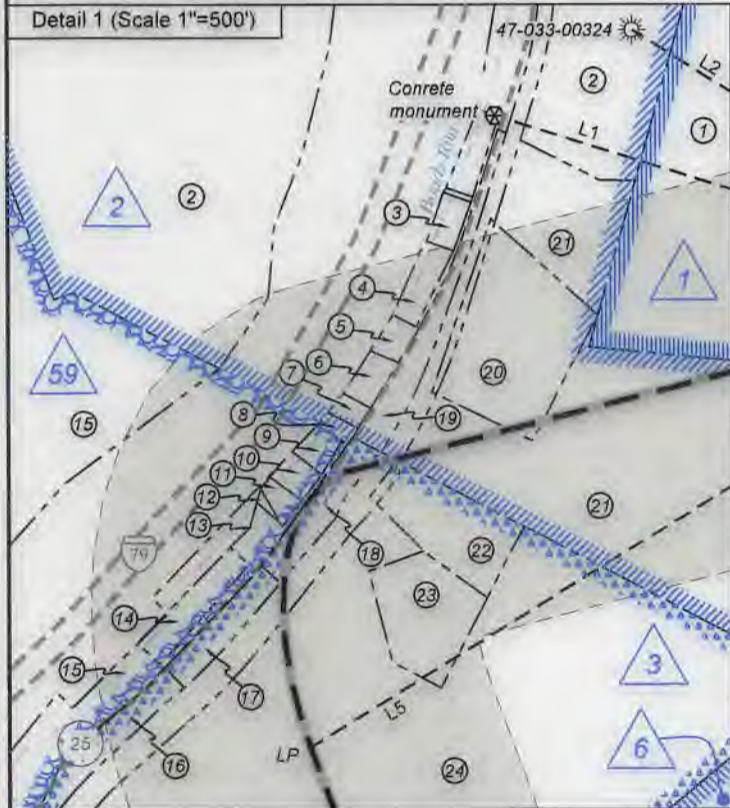
ID	Lease
1	Willa Post Robey
2	John F. McCusky, et ux
3	Emma A. Waggoner, et al
6	Susan V. Curry, et al
8	Charles P. Maxwell, et al
11	P.T. Allman
14	Paul E. Randolph, et al
18	Sidney Cookman, et al
20	Mike Ross, Inc.
47	G. Manley Curry, et al
51	Myrtle B. Arbogast
52	Myrtle Arbogast
53	Carolyn McCue Mullet, et al
54	G. Manley Curry, et ux
55	Willa E. Ware, et al
59	J.N. Rector
63	Myrtle Arbogast, et al

Wellhead Layout (NTS)



Harrison County				
No.	TM / Par	Owner	Bk / Pg	Ac.
36	467 / 33	Charles R. & Franklin L. Sutton	1472 / 181	39.20
37	466 / 56	Charles R. & Franklin L. Sutton	--- / ---	110.00
38	466 / 49	Charles R. & Franklin L. Sutton	--- / ---	105.17
39	467 / 49.1	Jane E. & Cody R. Ball	1570 / 114	2.08
40	487 / 2.1	Travis & Lauren J. Williston	1576 / 490	5.00
41	467 / 50	David L. & Celia K. Radcliff	1314 / 1289	6.00
42	467 / 51.2	Gary Jedrosko	1561 / 1064	8.38
43	487 / 2.2	Travis & Lauren J. Williston	1576 / 490	5.12
44	487 / 2	Mark Hutson	1410 / 156	10.17
45	487 / 10	Donley W. & Mark Hutson	1410 / 164	6.85
46	487 / 4.1	Catherine A. Mauro	1244 / 135	95.45
47	487 / 3	Myrtle B. Arbogast	W148 / 426	29.17
48	487 / 4.2	Catherine A. Mauro	1244 / 135	5.00
49	487 / 4	Catherine A. Mauro	1244 / 135	4.36
Lewis County				
50	10C / 2	Myrtle B. Arbogast	W17 / 218	78.64
51	10C / 11	Thomas C. Kennedy Testamentary Trust	W34 / 428	92.50

Detail 1 (Scale 1"=500')



Detail 2 (Scale 1"=500')



FILE NO: 32-36-G-19
DRAWING NO: Schoen 1205 S-7H 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: March 30 20 20
OPERATOR'S WELL NO. Schoen 1205 S-7H
API WELL NO. HGA
47 - 033 - 05995
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: Berlin

DISTRICT: Grant / Hackers Creek

COUNTY: Harrison / Lewis

SURFACE OWNER: George & Rosanne Schoen

ACREAGE: 65.00

ROYALTY OWNER: Willa Post Robey, et al

LEASE NO: _____ ACREAGE: 78.20

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,015' 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

**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

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Office of Oil and Gas

SEP 03 2020

WV Department of
Environmental Protection

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

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

HG Energy II Appalachia, LLC
Schoen 1205 S-7H Lease Chains

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Office of Oil and Gas
SEP 03 2020
WV Department of
Environmental Protection

1205W-S	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
1	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.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				2	LC066976	12-0446-0007-000 et al	Q100894000	MARCELLA R. BOND AND H. D. BOND, HER HUSBAND; S. ERLow DAVIS AND ANTHA DAVIS, HIS WIFE; HUGH C. DAVIS AND MARTHA DAVIS, HIS WIFE; GEORGIA A. BARNES, WIDOW; ALTHEA J. RANDOLPH, WIDOW; JANE D. POST AND JACOB S. POST, HER HUSBAND; ROXIE VEITH, SINGLE; JOHN A. VEITH, SINGLE; HALLIS VEITH, SINGLE; GRACE VEITH, SINGLE; JESSIE S. DAVIS, WIDOW; JOHN B. GRUMBEIN, WIDOWER; JOHN D. PICKENS AND HELEN N. PICKENS, HIS WIFE; LOUISE B. BELCHER AND EARL J. BELCHER, HER HUSBAND; LEWIS E. DAVIS AND LENORE DAVIS, HIS WIFE; LETTA M. BOND, SINGLE; PAUL V. BOND AND EVALEEN K. BOND, HIS WIFE; EVERETT O. DAVIS AND RUTH M. DAVIS, HIS WIFE; G. M. BASSEL AND MAUDE S. BASSEL, HIS WIFE; CLETT MOUNT AND HELEN MOUNT, HIS WIFE
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903					179
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136					250
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58					362
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522					33
DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524					491
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543					1235
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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					

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 SEP 03 2020
 WV Department of Environmental Protection

				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
59	LC021469	12-0446-0024-0000 12-0446-0024-0001 12-0446-0024-0002 12-0446-0024-0003 12-0446-0024-0004 12-0446-0024-0005 12-0446-0026-0001	Q101114000	J. N. RECTOR AND JULIA E. RECTOR	TRI-STATE GAS COMPANY	NOT LESS THAN 1/8	139	432
				TRI-STATE GAS COMPANY, WHEELING NATURAL GAS COMPANY AND THE MANUFACTURERS LIGHT AND HEAT COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	202	375
				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
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
3	LC066702	12-0446-0028-0000 12-0446-0028-0011 12-0446-0028-0002 12-0446-0028-0003 12-0446-0028-0004 12-0446-0028-0005	Q101137000	EMMA A. WAGGONER, WIDOW; W. A. WAGGONER AND MINNIE WAGGONER, HIS WIFE; AND W. GEORGE WAGGONER AND VIRGINIA WAGGONER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	777	396
				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
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				6	LC098171 FEE, LC020404	12-0446-0029-0000 12-0447-0020-0000 12-0447-0022-0000 12-0447-0032-0000 12-0447-0033-0000 12-0447-0034-0000 12-0447-0035-0000	Q100631000 LC098171 FEE	SUSAN V. CURRY, SINGLE; AND IDA M. CURRY, SINGLE
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903					179
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136					250
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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

55	LC084263	12-0446-0038-0000 12-0446-0037-0000	Q100951000	WILLA E. WARE AND JOHN P. WARE, HER HUSBAND; AND THE HARRISON COUNTY BANK	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	1011	167
				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
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				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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
9	LC005124	12-0447-0043-0000 12-0447-0043-0001	FK005124	L. D. SWISHER AND ADDIE SWISHER, HISWIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	152	254
				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
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				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				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				
54	LC066761	12-0466-0019-0000	Q100965000	G. MANLEY CURRY AND MARY GEORGIA CURRY, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	779	30
				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	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				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				
				B. SWISHER AND I. M. SWISHER, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	121	73
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	204	402
				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

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53	LC008492	12-0466-0054-0000 12-0467-0029-0000 12-0467-0029-0001	Q100303000	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.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
14	LC005043	12-0467-0030-0000 12-0467-0030-0001 p/o 12-0467-0032-0003 12-0467-033-0000 p/o 12-0467-0033-0001 12-0467-0034-0000 12-0467-0035-0000 12-0467-0036-0000 12-0467-0036-0001 p/o 12-467-0032-0000	Q100542000	M.M.F. RANDOLPH AND S. F. RANDOLPH, HUSBAND AND WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	152	262
				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
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
18	LC008461	12-0467-0049-0000 12-0467-0049-0001 12-0467-0050-0000 12-0467-0051-0000 12-0467-0051-0001 12-0467-0051-0002 12-0487-0002-0000 12-0487-0002-0001 12-0487-0002-0002 12-0487-0010-0000	Q100617000 FEEHGII0041	SIDNEY COOKMAN; A. B. COOKMAN; I. S. COOKMAN; ALICE MCCARTNEY AND I. W. MCCARTNEY, HER HUSBAND; MAUD CLEAVENGER AND J. R. CLEAVENGER, HER HUSBAND; AND, P. B. COOKMAN	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	118	18
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	204	402
				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.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				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
				A. S. HOLBERT	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	44	223
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	73	272
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	

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52	LC009742	p/o 04-010C-0002-0000 LEWIS COUNTY	Q100546000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220				
				51	LC008516	12-0487-0003-0000 4-010C-0021-0000	Q100545000	J. W. LEWIS AND SARAH LEWIS, HUSBAND AND WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	121	164
SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	204					402				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	HARRISON 903					179 89				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	HARRISON 1136					250 127				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	HARRISON 51					795				
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	HARRISON 58					362				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	HARRISON 1522					33 154				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	HARRISON 1543					1235 57				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	HARRISON 1576					125 848				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	HARRISON 1584					942 1				
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS									
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	HARRISON 1600					692 170				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1601					581 499				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621					1295 558				
LEWIS 734												
20	LC051844	12-0487-0004-0000 12-0487-0004-0001 12-0487-0004-0002	Q100873000					ALCINDA B. JACKSON AND M. E. JACKSON, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	497	4
								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				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 736	220				

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

August 27, 2020

James Kennedy
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Drilling Under Roads – Schoen 1205 S-7H
Grant District, Harrison County
West Virginia

Dear Mr. Kennedy:

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

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

Very truly yours,

Diane White

Diane C. White

Enclosures

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

Date of Notice Certification: 08/27/2020

API No. 47- _____

Operator's Well No. Schoen 1205 S-7H

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>555987.0</u>
County: <u>Harrison</u>		Northing: <u>4333800.3</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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input checked="" type="checkbox"/> RECEIVED
<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 <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION	RECEIVED Office of Oil and Gas	<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE	SEP 03 2020	<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION	WV Department of Environmental Protection	<input checked="" type="checkbox"/> RECEIVED

Required Attachments:

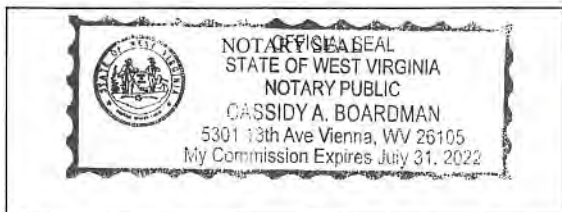
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

WW-6AC
(1/12)

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 27th day of August, 2020.

Cassidy A. Boardman Notary Public

My Commission Expires 7/31/2022

Oil and Gas Privacy Notice:

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

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: 09/01/20 Date Permit Application Filed: 09/02/20

Notice of:

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

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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

COAL OWNER OR LESSEE
Name: _____
Address: _____

Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Thomas Young
Address: 4856 SW 95th
Gainesville, FL 32608
Name: Joseph Queen
Address: P. O. Box 531
Lost Creek, WV 26385

SURFACE OWNER 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

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.

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Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments who may file written comments; (2) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (3) 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.

DEC 26 2020
WV Department of
Environmental Protection

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

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

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

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WV Dept.
Environment

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WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. Schoen 1205 S-7H
Well Pad Name: Schoen 1205

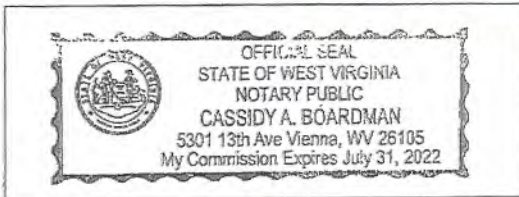
Notice is hereby given by:

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

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



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

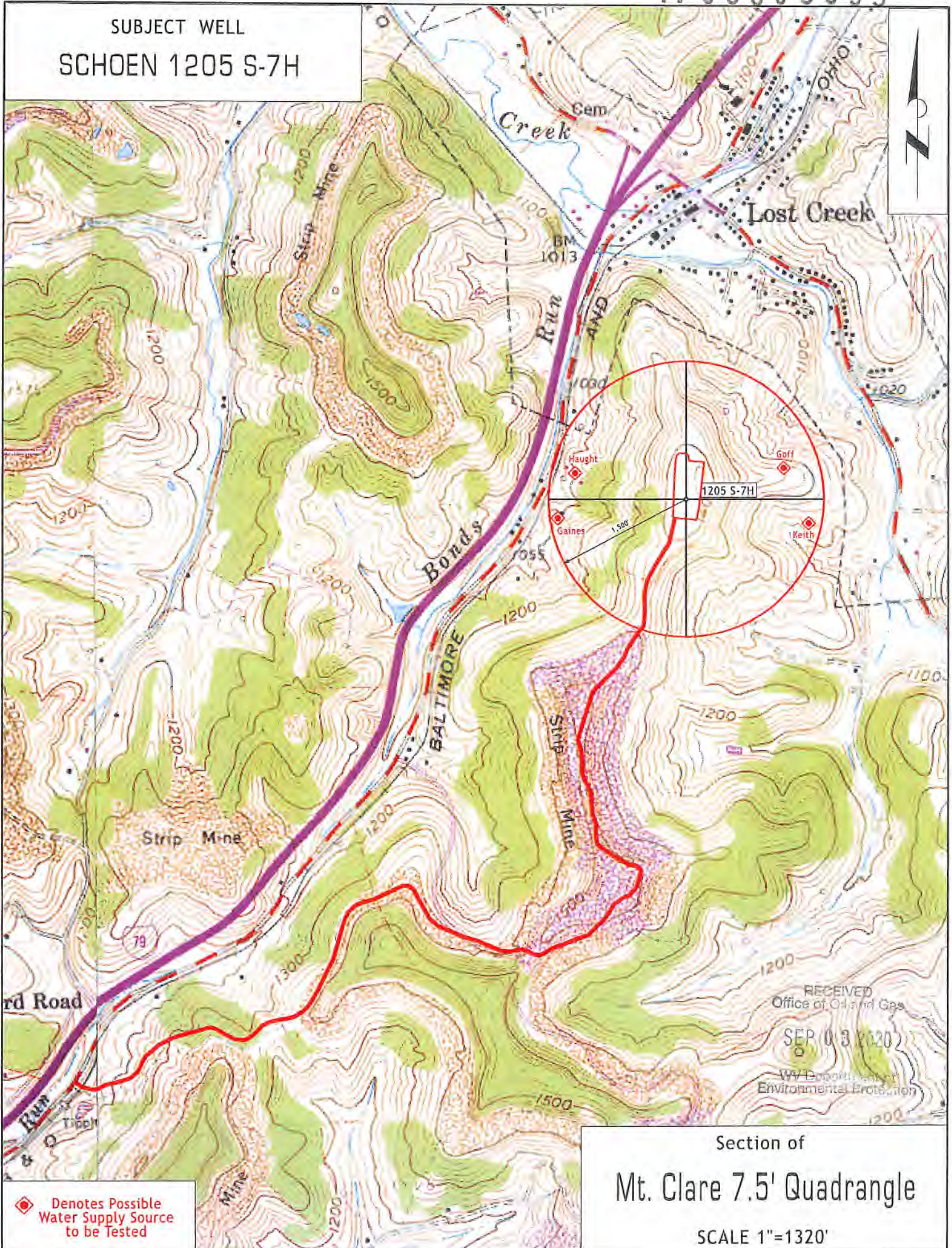
Cassidy A. Boardman Notary Public

My Commission Expires 7/31/2022

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SUBJECT WELL
SCHOEN 1205 S-7H



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SEP 03 2002
WV Department of
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Section of
Mt. Clare 7.5' Quadrangle

SCALE 1"=1320'

◆ Denotes Possible
Water Supply Source
to be Tested

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

Schoen 1205 S-7H

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

Marilyn Gaines
1191 McWhorter Road
Lost Creek, WV 26385

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

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

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

Charles and Franklin Sutton
801 Worthington Drive
Bridgeport, WV 26330

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 08/03/2020 **Date Permit Application Filed:** 08/15/2020

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

Name: _____
Address: _____

Notice is hereby given:

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

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

This Notice Shall Include:

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

Notice is hereby given by:

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

Authorized Representative: Diane White
Address: 5260 Dupont Road **RECEIVED**
Parkersburg, WV 26101 **Office of Oil & Gas**
Telephone: 304-420-1119 **SEP 03 2020**
Email: dwhite@hgenergyllc.com **WV Dept.**
Facsimile: 304-863-3172 **Environmental Protection**

Oil and Gas Privacy Notice:

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

WW-6A5
(1/12)

Operator Well No. Schoen 1205 S-7H

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

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

Date of Notice: 08/31/2020 **Date Permit Application Filed:** 09/02/2020

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

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

Name: George & Rosanne Schoen

Name: _____

Address: PO Box 158
Lost Creek, WV 26385

Address: _____

Notice is hereby given:

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

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

This Notice Shall Include:

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

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

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

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Oil and Gas Privacy Notice:

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

WV Department of
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4703305995

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

September 3, 2020

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

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

Subject: DOH Permit for the Schoen 1205 Pad, Harrison County
Schoen S-7H Well Site

Dear Mr. Martin,

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

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

Very Truly Yours,

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

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

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

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

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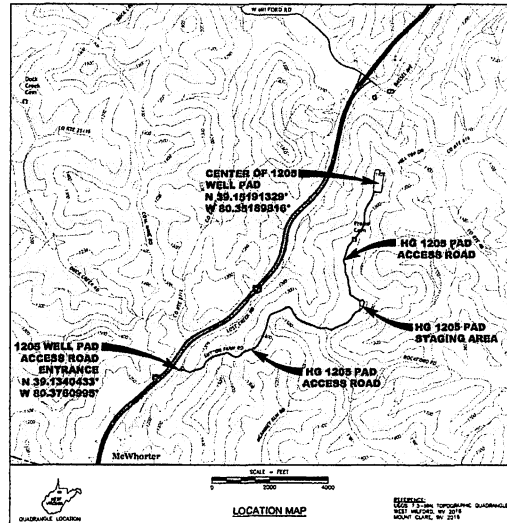
CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1205 WELL PAD

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 & DETAILS
7A-7C	PROPERTY MAP

GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

CONSTRUCTION SEQUENCE

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



PREPARED FOR
HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD
PARKERSBURG, WEST VIRGINIA 26101
(304) 420-1100

PREPARED BY
PENN ENVIRONMENTAL & REMEDIATION, INC.

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

Item	Qty	Unit	Notes
1205 Well Pad	11,990	10 210	
1205 Well Pad Access Road	12,710	12 200	
1205 Well Pad Staging Area	300	300	
Total	24,710	23,976	
Est. Swell Factor (20%)		296	
Total Swell		1,720	
Shipped Topsoil (Lumps of Earthwork)		6,192	
Est. Swell Factor (20%)		1,239	
Est. Topsoil Storage Volume (Lumps CY)		11,661	
Minimum Total Storage Capacity Required (CY)		12,791	

- Notes:
1. Material balances for all gross earthwork quantities only.
2. Topsoil soil volume based on 8' Fofore average depth.
3. Material balance and aggregate quantities based on estimate and may not be representative of actual quantities.
4. Estimate do not reflect contractor pay volume.

Item	Est. Volume	Unit	Notes
17' Rad Corner (Paved Ft)	1,119	245	1,490
Estimated Pad Access Road #1 Four Foot Soak Length (LF)			6,319
Estimated Staging Area Pad #1 Four Foot Soak Length (LF)			900
Estimated V&B Pad #1 Four Foot Soak Length (LF)			115
TOTAL Estimated #1 Four Foot Soak Length (LF)			8,325
TOTAL Estimated #1 Four Foot Soak Length (LF)			14,839
Estimated Pad Access Road Lumps of Disturbance (Acres)			1.80
Estimated Staging Area Pad Lumps of Disturbance (Acres)			2.99
Estimated 1205 Well Pad Lumps of Disturbance (Acres)			29.81
TOTAL Estimated Lumps of Disturbance (Acres)			149.05
Well Area Surface Elevation (Top of Soil Cement Subbase) (Ft)			1407.95
V&B Area Surface Elevation (Ft)			1407.25

WELL #	LAT	LONG
N-2H	N 39.1324668	W 80.3518727
N-2H	N 39.1324777	W 80.3516762
N-4H	N 39.1323857	W 80.3518838
N-1H	N 39.1323457	W 80.3518893
N-5H	N 39.1323977	W 80.3518849
S-5H	N 39.1318447	W 80.3520488
S-7H	N 39.1318050	W 80.3520554
S-12H	N 39.1318050	W 80.3520552
S-9H	N 39.1318223	W 80.3520590
S-8H	N 39.1314813	W 80.3520768

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

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
INTERSTATE 79 RIGHT OF WAY	N/A	N/A	0.704
FRANKLIN L. SUTTON	17-12-0468-0014-0002	39.4314	0.498
CHARLES R. SUTTON	17-12-0468-0015-0000	11.3466	0.332
FRANKLIN L. SUTTON	17-12-0468-0016-0000	22.3733	1.391
FRANKLIN L. SUTTON	17-12-0468-0017-0000	37.5166	3.008
FRANKLIN L. SUTTON	17-12-0468-0047-0000	25.9585	1.399
CHARLES R. SUTTON	17-12-0468-0048-0000	86.5040	3.008
CHARLES R. SUTTON	17-12-0468-0019-0000	62.7575	0.604
JOSEPH C. QUEEN	17-12-0467-0043-0001	16.8336	0.245
JOSEPH C. QUEEN	17-12-0447-0032-0000	35.5469	2.182
THOMAS K. YOUNG	17-12-0448-0029-0000	73.2758	6.570
GEORGE M. & ROSANNE SCHOEN	17-12-0447-0002-0000	71.2988	7.792
TOTAL LIMIT OF DISTURBANCE			29.813 AC

APPROVED
WVDEP OOG
12/1/2020

The Designer represents the accuracy of the data herein and only intended to be used for the purposes of the project. The Designer is not responsible for any errors or omissions in the data herein, nor for any consequences resulting from the use of the data herein, including but not limited to, any and all claims, damages, costs, and expenses, including reasonable attorney's fees, that may be incurred by the user of the data herein.

REVISION	DATE	DESCRIPTION
1	08/17/2020	QUANTITY UPDATE AND CHANGE MODIFICATIONS
2	08/27/2020	CLIENT REVISIONS
3	09/16/2020	REVISED PER CLIENT COMMENTS
4	10/28/2020	REVISED PER CLIENT COMMENTS
5	11/17/2020	CLIENT WELL RESPONSE
8	11/29/2020	REVISED PER WVDEP COMMENTS



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

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

WEST VIRGINIA **BE** CALL BEFORE YOU DIGI
Dial 811 or 800.245.4848
West Utility of West Virginia

APPROVED WVP 03/21/2020
CHECKED CAC 03/20/2020
DESIGNED WVR 03/20/2020
PROJECT No. 4000-PAD0718
DRAWING NUMBER
PAD0718-001
SHEET 1
Penn E&R
Environmental & Remediation, Inc.
111 RYAN COURT, PITTSBURGH, PA 15205
412-722-1222

1. SERVICE UTILITY LINES ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING, AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE.

C:\PROJECT FILES\4000-PAD0718 HG 1205 PAD\DRAWINGS\PAD0718 1205 PAD TITLE SHEET.DWG, 11/29/2020, 3:02 PM

APPROVED
WVDEP OOG
[Signature]
 12/11/2020

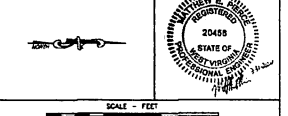
WELL #	LAT	LONG
N-3H	N 30.1524886	W 80.3518727
N-2H	N 30.1523277	W 80.3519762
N-4H	N 30.1523857	W 80.3518358
N-1H	N 30.1523457	W 80.3518893
N-5H	N 30.1523547	W 80.3519368
S-8H	N 30.1518447	W 80.3520485
S-7H	N 30.1518038	W 80.3520554
S-10H	N 30.1517830	W 80.3520222
S-9H	N 30.1515222	W 80.3520990
S-6H	N 30.1514813	W 80.3520758

WELL ELEVATIONS 1407.25
 1705.17

- LEGEND**
- PROPOSED POOL CHECK DAM
 - PROPOSED BERM APPROX
 - PROPOSED ACCESS ROAD/PAD CHANNEL
 - PROPOSED COMPOST FILTER SOCK 6' UNLESS OTHERWISE NOTED
 - PROPOSED STACKED COMPOST FILTER SOCK 6'
 - PROPOSED ORANGE CONSTRUCTION FENCE
 - APPROXIMATE LIMITS OF DISTURBANCE
 - APPROXIMATE OUT-TO-TOE LINE
 - APPROXIMATE LIMITS OF LOAN SURVEY
 - APPROXIMATE PROPERTY LINE
 - EXISTING INTERMEDIATE CONTOUR
 - PROPOSED SURFACE ELEVATION CONTOUR
 - EXISTING ACCESS ROAD
 - EXISTING OVERHEAD UTILITY LINE
 - EXISTING GAS LINE
 - PROPOSED GAS LINE (BY OTHERS)
 - SECTION (SEE SHEET 3)
 - DISTING WETLAND
 - PROPOSED TCE BENCH (SEE P.L. BENCH DETAIL)
 - PROPOSED EROSION CONTROL BLANKET

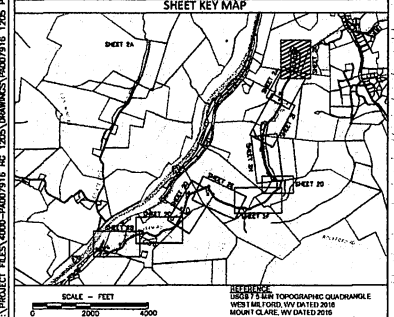
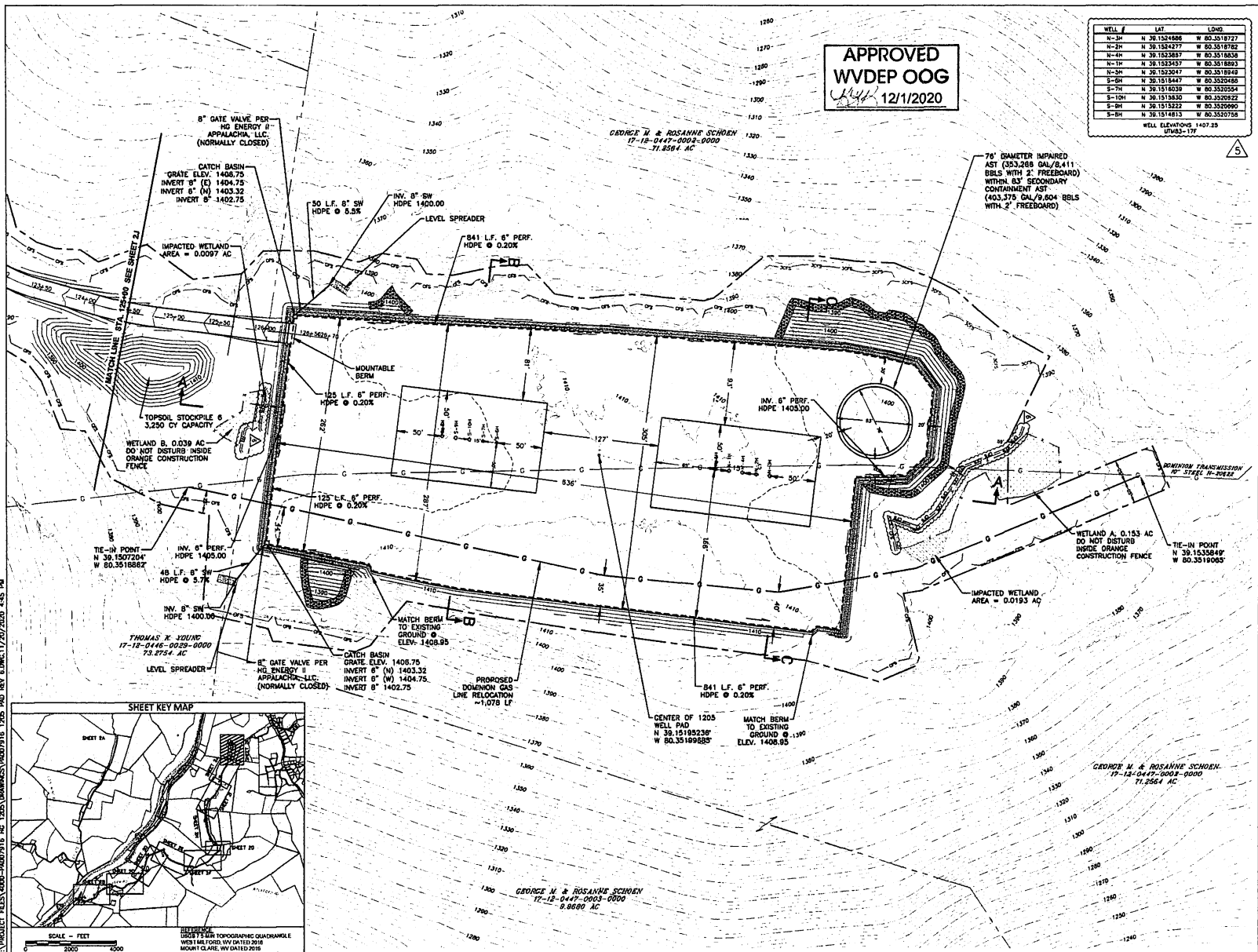
- VERY IMPORTANT GENERAL NOTES**
- ALL PROPOSED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION NOTES AND DETAILS.
 - CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AT THE SITE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTIES.
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SITE DEVELOPMENT PLAN
WITH EROSION AND SEDIMENTATION CONTROLS
HG 1205 PAD
GRANT DISTRICT
HARRISON COUNTY, WEST VIRGINIA
HG ENERGY II APPALACHIA, LLC
PARKERSBURG, WEST VIRGINIA

APPROVED: WEP 03/31/2020
 CHECKED: DAC 03/30/2020
 DRAWN: WEP 03/24/2020
 PRODUCT NO.: 002-PA007916
 DRAWING NUMBER: PA007916-001
 SHEET: 2K



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