



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

Wednesday, December 9, 2020

WELL WORK PERMIT
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for EVANS 1213 N-1H
47-041-05708-00-00

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: EVANS 1213 N-1H
Farm Name: JAMES M & SUZANNE L EVA
U.S. WELL NUMBER: 47-041-05708-00-00
Horizontal 6A New Drill
Date Issued: 12/9/2020

Promoting a healthy environment.

PERMIT CONDITIONS

4704105708

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

4704105708

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



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
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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: December 1, 2020
ORDER NO.: 2020-W-7

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 October 5, 2020 HG submitted a well work permit application identified as API# 47-041-05708. The well is located on the Evans 1213 Pad in the Freemans Creek District of Lewis County, West Virginia.
4. On October 5, 2020 HG requested a waiver for Wetlands C, E, G, H, L and N 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# 47-041-05708.

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 C, E, G, H, L and N from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API#s 47-041-05708. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Evans 1213 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 C, E, G, H, L, and N 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 1st day of December 2020.

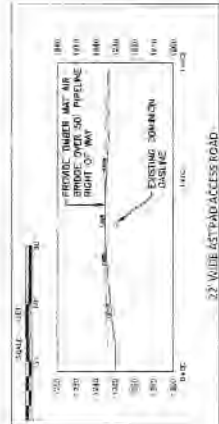
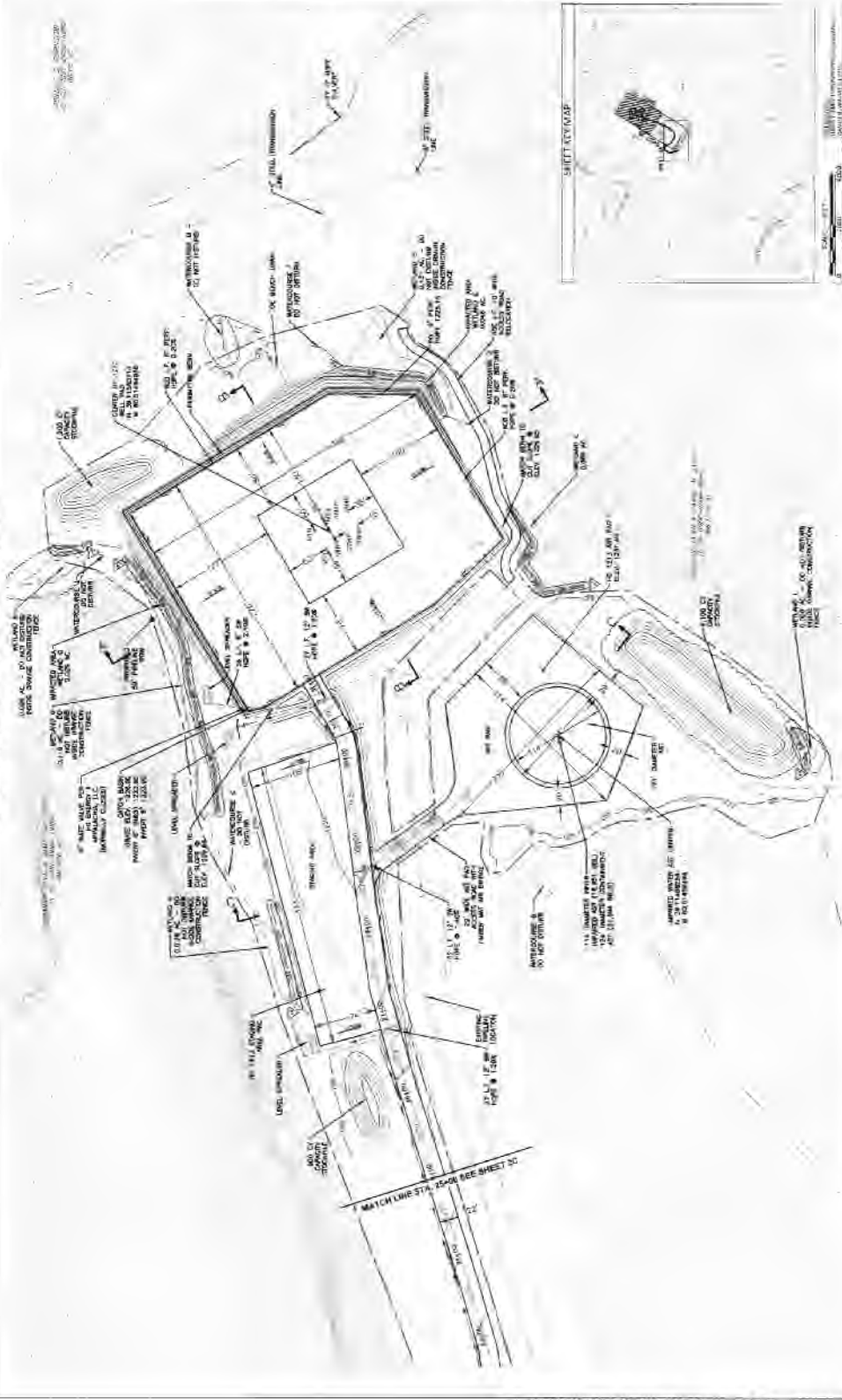
IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: **James Martin** Digitally signed by James Martin
Date: 2020.12.01 16:12:48 -0500

JAMES A. MARTIN, CHIEF

Attachment 1 - Evans 1213 Wetland Waiver



DATE: 08/11/2011 10:58:11 AM

PROJECT: 1213 WETLAND WAIVER

CLIENT: FREEMANS CREEK DISTRICT

DESIGNER: PENN E&R

SCALE: AS SHOWN

PROJECT NO: 1213

DATE: 08/11/2011 10:58:11 AM

1. This drawing is a plan view of the site showing the wetland boundaries and the proposed structures. It is intended to be used in conjunction with the other drawings in this set.

2. The wetland boundaries are shown as a solid line. The proposed structures are shown as dashed lines.

3. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

4. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

5. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

6. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

7. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

8. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

9. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

10. The structures are located within the wetland boundaries. The structures are shown as dashed lines.

4444 DISTRICT

STATE OF VIRGINIA

WITH EROSION AND SEDIMENTATION CONTROLS

1213 P&C

FREEMANS CREEK DISTRICT

LEWIS COUNTY, WEST VIRGINIA

PENN E&R

INCORPORATED IN PENNSYLVANIA

1213 WETLAND WAIVER

1213

DATE: 08/11/2011 10:58:11 AM

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: 4105708

Operator's Well Number: EVANS-12134-1H

Well Operator: HG Energy II Appalachia, LLC

Well Number: _____ Well Pad Name: HG 1213 Pad

County, District, Quadrangle of Well Location: Lewis County, Freemans Creek District, Camden 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.

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: _____

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 1213 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 C (0.069 acre, not impacted)
- Wetland E (0.131 acre total, 0.060 acre impacted)
- Wetland G (0.119 acre total, 0.036 acre impacted)
- Wetland H (0.028 acre, not impacted)
- Wetland L (0.006 acre, not impacted)
- Wetland N (0.028 acre, not 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 1213 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. Location to northeast 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 1213 well pad. The site and access road are limited by topographic constraints (steep slopes).

d. The proposed HG 1213 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.

11/3/14

Wetland and Perennial Stream Waiver Request

4704105708

API Number: _____

Operator's Well Number: _____

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, staged, 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 1213 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.

4704105708

IG ENERGY PAD 1111
74121219
50,840 CY FILL
ELEV. 1154.10
CENTER OF PAD
N36D W42ND
WB8150352005



IG ENERGY PAD 1111
74121219
SHEET 3 OF 3



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 494519932 Lewis Freemans Camden
Operator ID County District Quadrangle

2) Operator's Well Number: Evans 1213 N-1H Well Pad Name: Evans 1213

3) Farm Name/Surface Owner: James & Suzanne Evans Public Road Access: Mare Run Rd at CR 10/9

4) Elevation, current ground: 1233' Elevation, proposed post-construction: 1227'

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

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 6709'/6791' and 82' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 6760'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24,337'

11) Proposed Horizontal Leg Length: 17,088'

12) Approximate Fresh Water Strata Depths: 60', 136', 151', 200'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-01847, 1786, 1233)

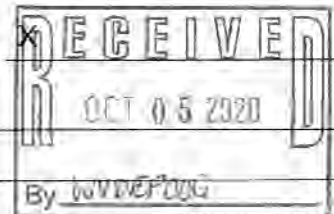
14) Approximate Saltwater Depths: None found

15) Approximate Coal Seam Depths: 220', 445', 650', 800', 805' (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: _____



BS 9-23-20

WW-6B
(04/15)

API NO. 47- _____
OPERATOR WELL NO. Evans 1213 N-111
Well Pad Name: Evans 1213

18)

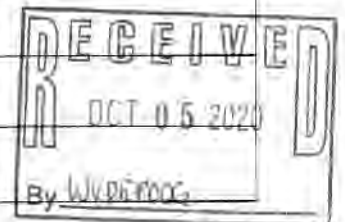
CASING AND TUBING PROGRAM

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	1100'	1100'	CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2100'	2100'	CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2900'	2900'	CTS
Production	5 1/2"	NEW	P-110 HP	23	24337'	24337'	CTS
Tubing							
Liners							

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"	26"	.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	1.6M 40% excess 1.8M 24% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	1.2M 40% excess 1.5M 24% excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	2.0M excess yield = 1.10 M 24% excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				



BS 9-23-20

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 6760 feet. Drill horizontal leg to estimated 17,088 lateral length, 24,337 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): 14.36 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.26 acres

23) Describe centralizer placement for each casing string:

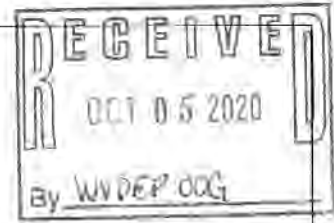
No centralizers will be used with completion strings.
Freshwater Casing - centralize every 200' to 400'.
Production - 1" low string of every joint, with 200' to 400' for bottom storage zone.
Production - 2" low string of the 0" gap (1" to 2") - 100' to 150' from surface.
Production - 3" low - 1" gap - 100' to 150' from the top of the well to surface. Run 1 lateral centralizer every 6' and from 100' to 150' long (at the top of the well).

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

Conductor - 100% Class II or III cement.
Fresh Water Casing - 15 lb spg PNE-1 + 2% SWS CaCl₂ + 40% Excess Water + 1% CTS
Intermediate 1 - 15 lb spg PNE-1 + 2.5% SWS CaCl₂ + 40% Excess Water + 1% CTS
Intermediate 2 - 15 lb spg PNE-1 + 2.5% SWS CaCl₂ + 40% Excess Water + 1% CTS
Production - 15 lb spg PNE-1 + 2.5% SWS CaCl₂ + 40% Excess Water + 1% CTS + 0.5% SWS CaCl₂ + 1% CTS
Production - 15 lb spg PNE-1 + 2.5% SWS CaCl₂ + 40% Excess Water + 1% CTS + 0.5% SWS CaCl₂ + 1% CTS + 0.75 gal/gal EP13L + 20% SWS ASDAT + 0.5% SWS SMTA (1% 80% SWS) + 1% CTS + 1% SWS CaCl₂ + 1% CTS

25) Proposed borehole conditioning procedures:

Condition - 200' to 400' below TD.
Fresh Water Casing - 200' to 400' below TD, stimulate a minimum of 100' below TD with 100' of pumping cement.
Intermediate 1 - One casing is at setting point, Circulate and cement at TD. Stimulate a minimum of 100' below TD with 100' of pumping cement.
Intermediate 2 - One casing is at setting point, Circulate and cement at TD. Stimulate a minimum of 100' below TD with 100' of pumping cement.
Production - 1" low string TD with casing, stimulate at least 200' below TD with 200' of pumping cement. Circulate and cement at TD. Stimulate a minimum of 100' below TD with 100' of pumping cement.

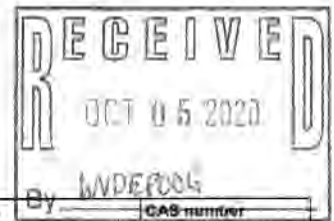


*Note: Attach additional sheets as needed.

HG Energy II Appalachia, LLC
Evans 1213 Well Pad (N-1H, N-2H, N-3H, S-4H, S-5H, S-6H)

Cement Additives

4704105708



Material Name	Material Type	Material Description	CAS #																		
Premium NE-3	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>85997-15-1</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	85997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
Ingredient name	%	CAS number																			
Portland cement	90 - 100	85997-15-1																			
Calcium oxide	1 - 5	1305-78-8																			
Magnesium oxide	1 - 5	1309-48-4																			
Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7																			
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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Cellulose	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
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Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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MBA-170	Gas Migration	Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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Poz (Fly Ash)	Base	A synthetic pozzolan (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7	Calcium oxide	1 - 5	1305-78-8									
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R-3	Retarder	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Organic acid salt</td> <td>40 - 50</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
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S-5	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>2-Butoxyethanol</td> <td>20 - 30</td> <td>111-76-2</td> </tr> <tr> <td>Proprietary surfactant</td> <td>10 - 20</td> <td>Trade secret.</td> </tr> <tr> <td>D-Glucopyranose, oligomeric, C10-16-alkyl glycosides</td> <td>5 - 10</td> <td>110815-47-9</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	110815-47-9	Alkylarylsulfonate amine salt	1 - 5	Trade secret.	Polyoxyalkylenes	0.1 - 1	Trade secret.
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RECEIVED
 OCT 05 2026
 By: [Signature]

1213 N-1H
Marcellus Shale Horizontal
Lewis County, WV

1213 N-1H SHL

14205092.28N 1777976.99E

Ground Elevation

1227.6'

1213 N-1H LP

14205739.31N 1778418.25E

Azm

340.529°

1213 N-1H BHL

14221843.99N 1772724.54E

WELLBORE DIAGRAM

HOLE	CASING	GEOLOGY	TDP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
20'	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
27'	80' 84# J-55	Fresh Water	0	214' 600, 80'	AIR	15.8 ppg PNE-1 + 3% bwoc GaCl 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 = 0.436" wall thickness Burst=2110 psi
		Kittaning Coal	800	808					
		Fresh Water Protection	0	1100					
17.5'	13-3/8" 88# J-65 BTC	Little Lime	1474	1494	AIR / XCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 7.5% bwoc GaCl 40% Excess / Tail: 15.8 ppg PNE-1 + 2.5% bwoc GaCl zero% Excess CTS	Bow Spring on every joint <i>Will also be running 40% to centralizer wherever zones</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 = 0.460" wall thickness Burst=3450 psi
		Big Lime	1524	1594					
		linear / Green / Composite	1694 / 1599	1692 / 1599					
		Intermediate 1	0	2100					
12.20'	9-5/8" 40# J-55 BTC	Pity / Thirty Foot	1978 / 2075	1998 / 2102	AIR / RCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc GaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc GaCl zero% Excess CTS	Bow Spring on first 2 joints then every third joint to 100' from 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 Sirey / Gordon	2120 / 2156	2154 / 2232					
		5th Sand	2369	2409					
		Rayard / Warren	2449 / 2771	2479 / 2796					
8.5" Vertical	5 1/2" 21# P-110 HP DDC HTC	Speechley	3075	3096	AIR / 8.0ppg SOBMs	Lead: 14.5 ppg POZ-PNE-1 + 3.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sh EP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sh EP13L + 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
		Balltown	3266	3346					
		Benson	438E	4411					
8.5" Curve		Rhinestreet	6008	6378	11.5ppg-12.5ppg SOBMs				
		Cashiaqua	6279	6378					
		Middlesex	6379	6411					
		West River	6411	6482					
		Burkett	6482	6492					
		Tully Limestone	6492	6600					
		Hamilton	6600	6753					
8.5" Lateral	Marcellus	6709	6791	11.5ppg-12.5ppg SOBMs					
	TMD / TVD (Production)	24337	6760						
		Onondaga	6781						

LP @ 6760' TVD / 7848 MD

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

4-17088 R Lateral

TD @ 4-6760 TVD
W-24337 MD

80 / C 1 6 0 / 0 4

4704105708

PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

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

WELL NAME: Evans 1213 N-1H

Well # Evans 1213 N-1H

DISTRICT/COUNTY/STATE: Freemans Creek / Lewis / WV




Submitted


JOSH HINTON
HG ENERGY, LLC

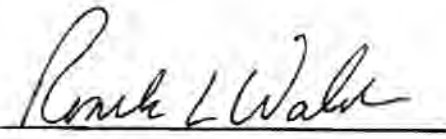
DATE 9-21-2020

Approved


Dominion Energy Transmission

DATE 9-23-2020

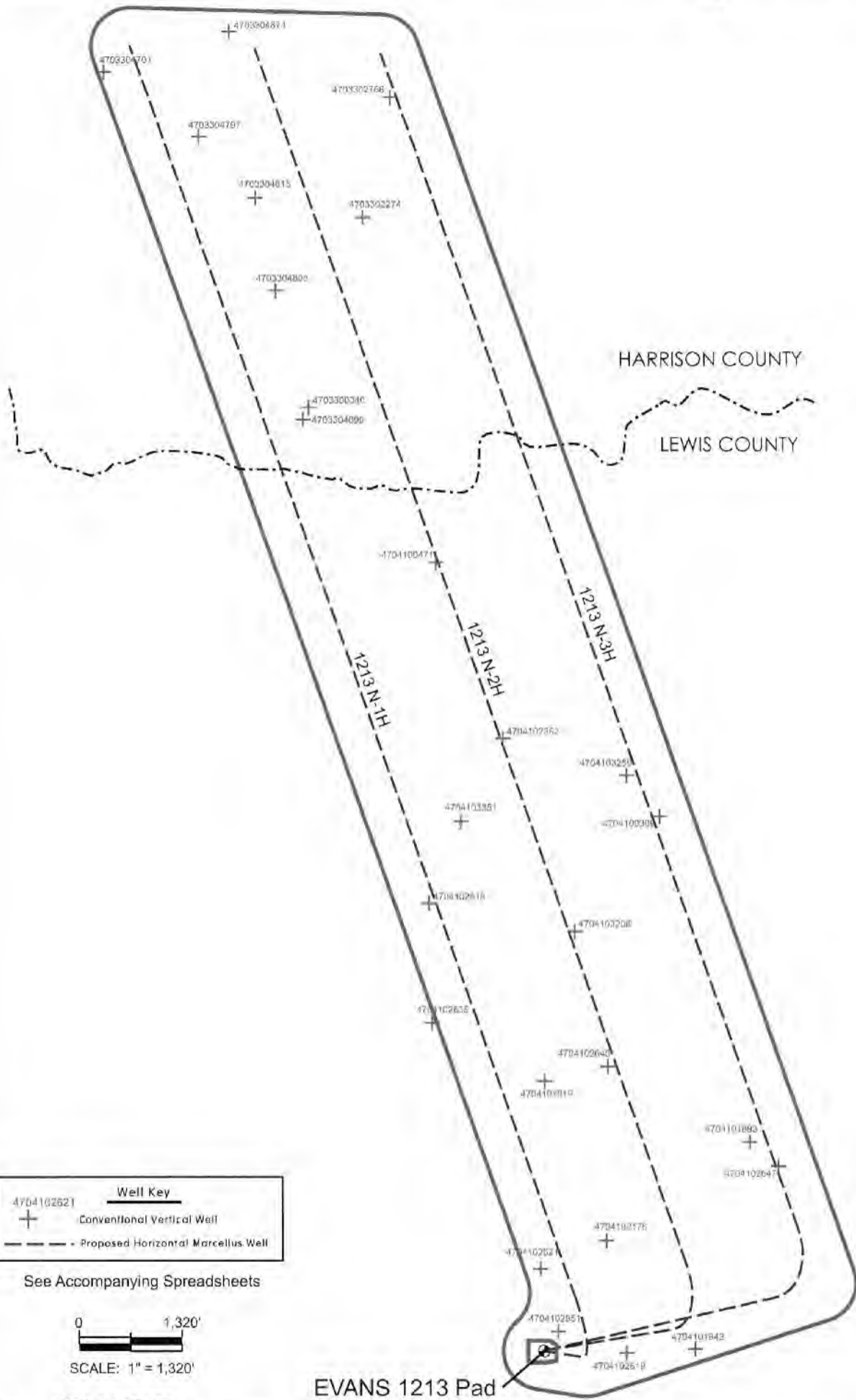
Approved


Dominion Energy Transmission

DATE 9/23/2020

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



DATA SOURCES
WVGES Data Set - 2017; WVDEP Website

Area of Review for:

EVANS 1213 NORTH UNIT

Proposed 1213 N-1H Proposed 1213 N-2H
Proposed 1213 N-3H

Freeman's Creek District, Lewis County, W.Va.
& Union District, Harrison County, W.Va.

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



4704105708

**EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:
EVANS 1213 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H & N-3H**

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE	
1	4703300340	Harrison	J M Hall Heirs 2	Rudder Oil & Gas	Undr PRICE b/w ININ	Oil w/ Gas Show	1925	PLUGGED	39.148902	80.525267	
2	4703302274	Harrison	Ashby Coffindaffer	Clowser Well Service, Inc.	Devonian Sh	Gas	5368	ABANDONED	39.155591	80.522726	
3	4703302766	Harrison	Maxie Coffindaffer Est	Braxton Oil & Gas Corp.	Alexander	Oil	5162	ABANDONED	39.159791	80.521431	
4	4703304099	Harrison	Ashby L Coffindaffer	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Storage	2090	ACTIVE	39.148485	80.525517	
5	4703304674	Harrison	Betty A Coffindaffer	Alliance Petroleum Co. LLC	Greenland Gap Fm	Oil and Gas	5380	ACTIVE	39.161117	80.526733	
6	4703304701	Harrison	Michael Sweeny et ux	Dominion Energy Transmission, Inc.	Benson	Gas	5047	ACTIVE	39.160735	80.524466	
7	4703304797	Harrison	Michael Sweeny et ux	Dominion Energy Transmission, Inc.	Benson	Gas	5040	ACTIVE	39.172176	80.530177	
8	4703304808	Harrison	Rose Coffindaffer	Dominion Energy Transmission, Inc.	Benson	Gas	4960	ACTIVE	39.150021	80.526716	
9	4703304815	Harrison	Rose Coffindaffer	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	5050	ACTIVE	39.156911	80.527592	
10	4704100309	Lewis	C Dillon	Dominion Energy Transmission, Inc.	Up Devonian	Storage	2306	ACTIVE	39.134418	80.509498	
11	4704100471	Lewis	Alfred Armstrong	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2341	PLUGGED	39.143409	80.519556	
12	4704101843	Lewis	Tomas R Zinn et al	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4545	ACTIVE	39.115681	80.508098	
13	4704101893	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	Benson	Gas	4764	ACTIVE	39.177957	80.510549	
14	4704101919	Lewis	Stephen P Queen	Dominion Energy Transmission, Inc.	Benson	Gas	4730	ACTIVE	39.185116	80.514004	
15	4704102176	Lewis	John Burnside	Dominion Energy Transmission, Inc.	Leopold	Gas	4819	ACTIVE	39.119497	80.512043	
16	4704102362	Lewis	E E Garrett	Dominion Energy Transmission, Inc.	Benson	Gas	4717	ACTIVE	39.137167	80.516370	
17	4704102618	Lewis	Ira L Queen	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.131407	80.519869	
18	4704102619	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.117516	80.511167	
19	4704102621	Lewis	J S Hall	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.118409	80.515040	
20	4704102635	Lewis	Silas E Gouchenour	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.177183	80.518483	
21	4704102640	Lewis	Stephen P Queen	Dominion Energy Transmission, Inc.	not available	Storage	2000	ACTIVE	39.175676	80.513289	
22	4704102647	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.120662	80.504132	
23	4704102851	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.116316	80.511247	
24	4704103708	Lewis	T J & B I Berlin	Greylock Conventional, LLC	Alexander	Gas	5248	ACTIVE	39.130393	80.513381	
25	4704103259	Lewis	Berlin	Greylock Conventional, LLC	Brallier	Gas	5400	ACTIVE	39.135868	80.510988	
26	4704103351	Lewis	Flodia B Smith	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas w/ Oil Show	2397	PLUGGED	39.130279	80.518216	
27											
							YELLOW DENOTES WELL WITH TVD > 4,500'		GREEN DENOTES SURVEYED WELLS		

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

WW-9
(4/16)

API Number 47-041 - 05708

Operator's Well No. Evans 1213 N-1H

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 Camden

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)

Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, reused 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/SCBM, Horizontal - SCBM

-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

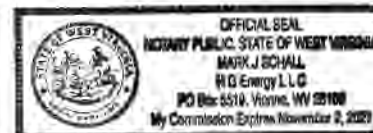
Company Official Title Agent

Subscribed and sworn before me this 18th day of September, 2020

[Signature]

Notary Public

My commission expires 11/2/2021



HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 14.36 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: Benny Stalls

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

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

Title: Oil & Gas Inspector

Date: 9-23-20

Field Reviewed? () Yes () No

Cuttings Disposal/Site Water

Cuttings-Haul off Company:

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

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

Environmental Coordination Services & Recycling (ECS&R)
8297 US Highway 19
Cochranston, PA 16814
814-425-7773

Disposal Locations:

Apex Environmental, LLC Permit # 06-08488
11 County Road 78
Amsterdam, OH 43908
740-543-4889

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

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

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

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

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

Waste Management South Hills (Arnold) Permit # 100592
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 # 1032
1488 Dawson Drive
Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-87 / WV 0105029
Rd 2 Box 410
Colliers, WV 26035
304-748-0014

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 200 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-1 Environmental Services Permit ID M1D020906814
 8947 US 131 North, PO Box 1030
 Kalkaska, MI 49646
 231-258-9961

Water Haul off Companies:

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

Nahors Completion & Production Services Co.
 PO Box 976882
 Dallas, TX 75397-5882

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

Nuverra Environmental Solutions
 11942 Veterans Memorial Highway
 Mesontown, WV 26542

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

Wilson's Outdoor Services, LLC
 455 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 44436
 330-536-6825

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

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

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

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

Equipment Transport
 1 Tyler Court
 Carlisle, PA 17015

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

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

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

Groeselle (SWIW #34)
 Permit # 4096
 Rt. 88
 Garrettsville, OH
 719-275-4816

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

Adams #2 (Buckeye Brine, LLC)
2205 Westover Road
Austin TX 78708
Permit # 34-031-2-7178
740-575-4484
512-478-6545

Adams #3 (Buckeye Brine, LLC)
Permit #34-031-2-7241-00-00
2680 Exposition, Suite 117
Austin, TX 78708
512-478-6545

Mozena #1 Well (SWIW # 13)
Permit # 34-157-2-8511-00-00
5367 E. State Street
Newcomerstown, OH 43882
740-763-3966

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

SOS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Silcor Oilfield Services, Inc.
2999 Hubbard Road
Youngstown, OH 44505

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

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

US Steele 1.1385
Permit # 47-001-00561
200 Evergreen Drive
Waynesburg, PA 15780
304-323-6568

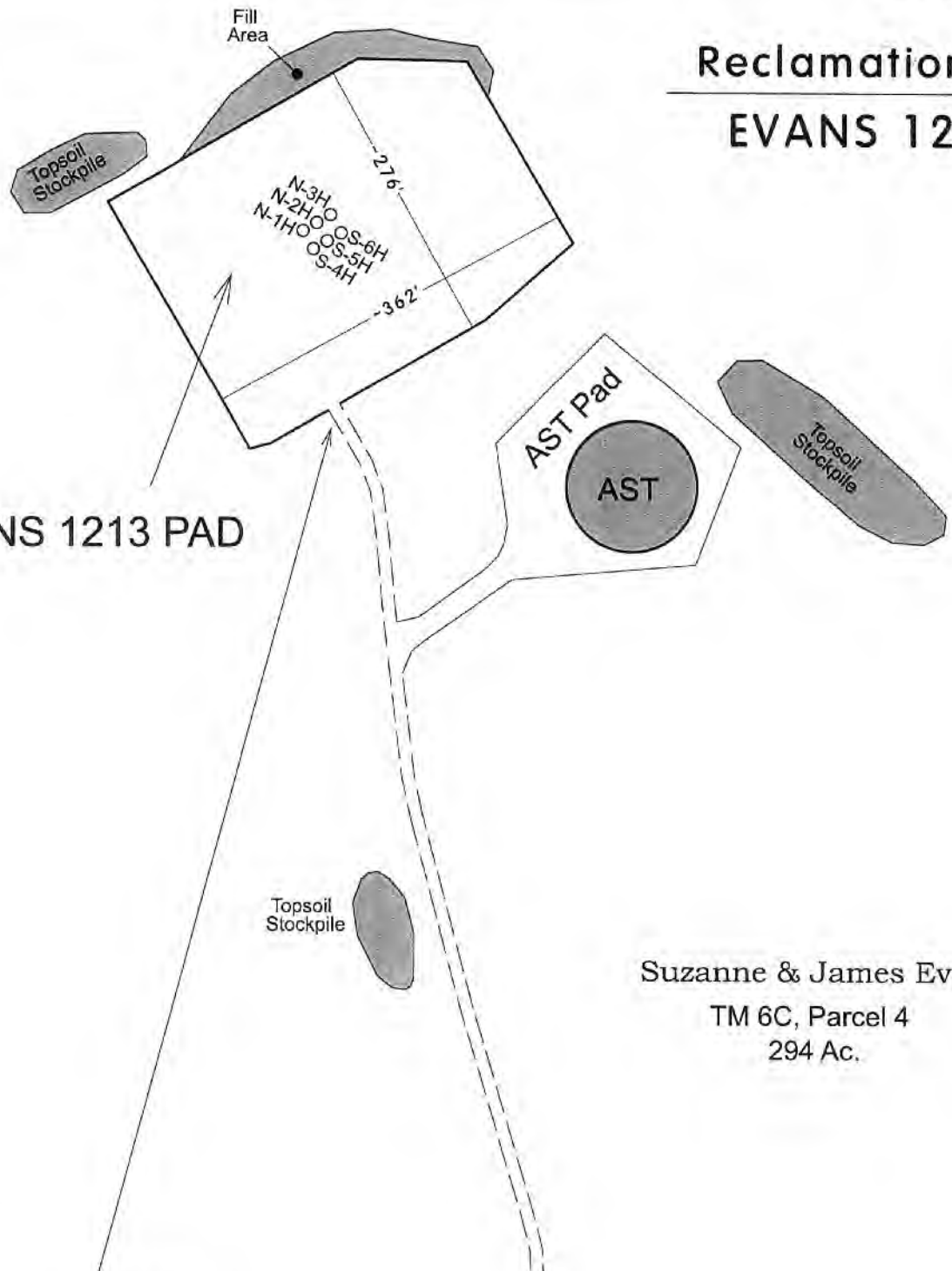
Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4187-00-00
Elkhead Gas & Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

Reclamation Plan For: EVANS 1213 PAD



John & Bertha
Benedum
TM 6C, Parcel 3.2
115 Ac.

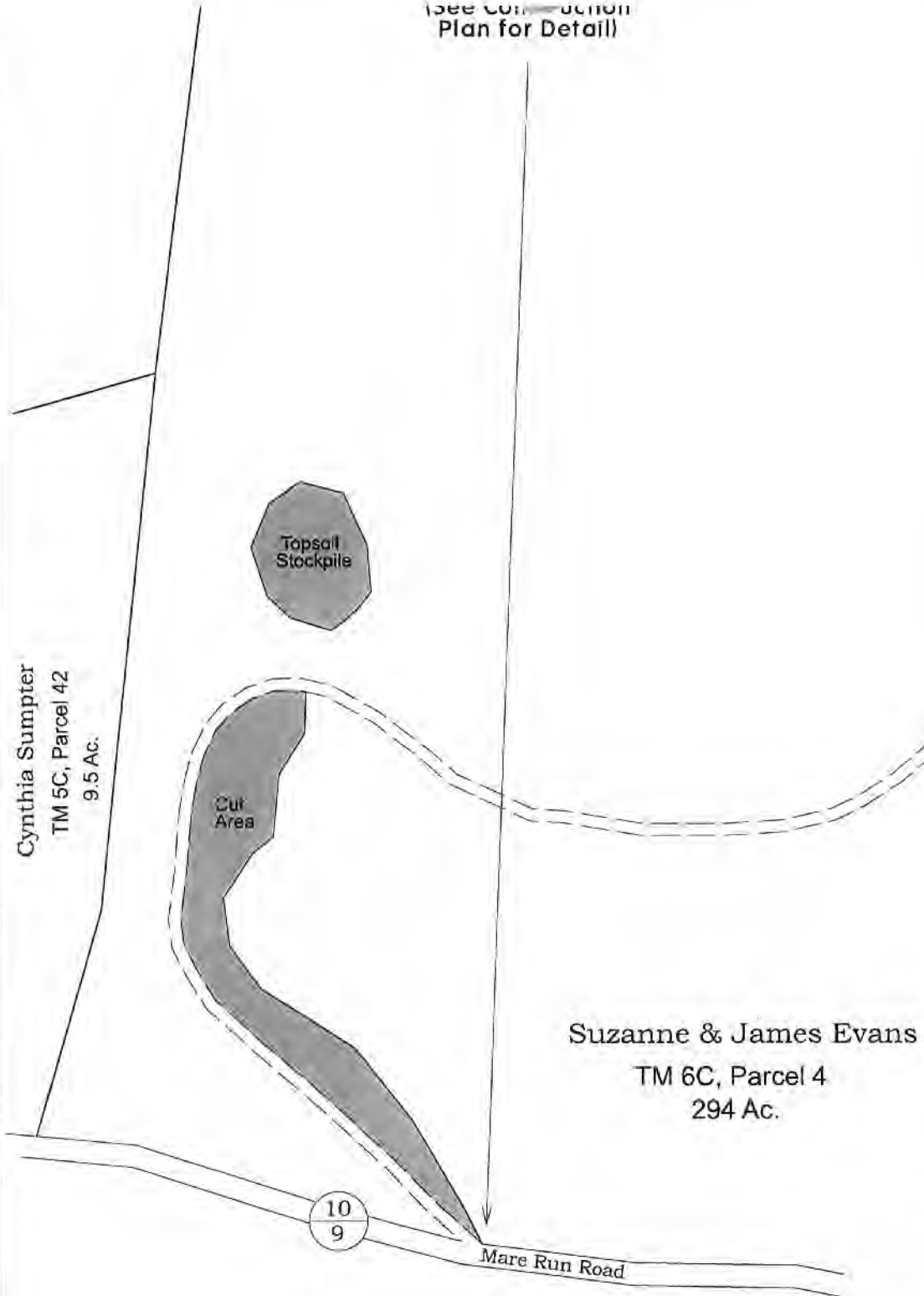
EVANS 1213 PAD



Suzanne & James Evans
TM 6C, Parcel 4
294 Ac.

~3 100' of Proposed

(See Construction
Plan for Detail)



Cynthia Sumpter
TM 5C, Parcel 42
9.5 Ac.

Topsail
Stockpile

Cut
Area

Suzanne & James Evans
TM 6C, Parcel 4
294 Ac.

Existing Road
to be Upgraded

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

Notes:

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

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HG Energy II Appalachia, LLC

Site Safety Plan

**Evans 1213 Well Pad
368 Mare Run Road Weston
Lewis County, WV 26452**

August 2020: Version 1

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

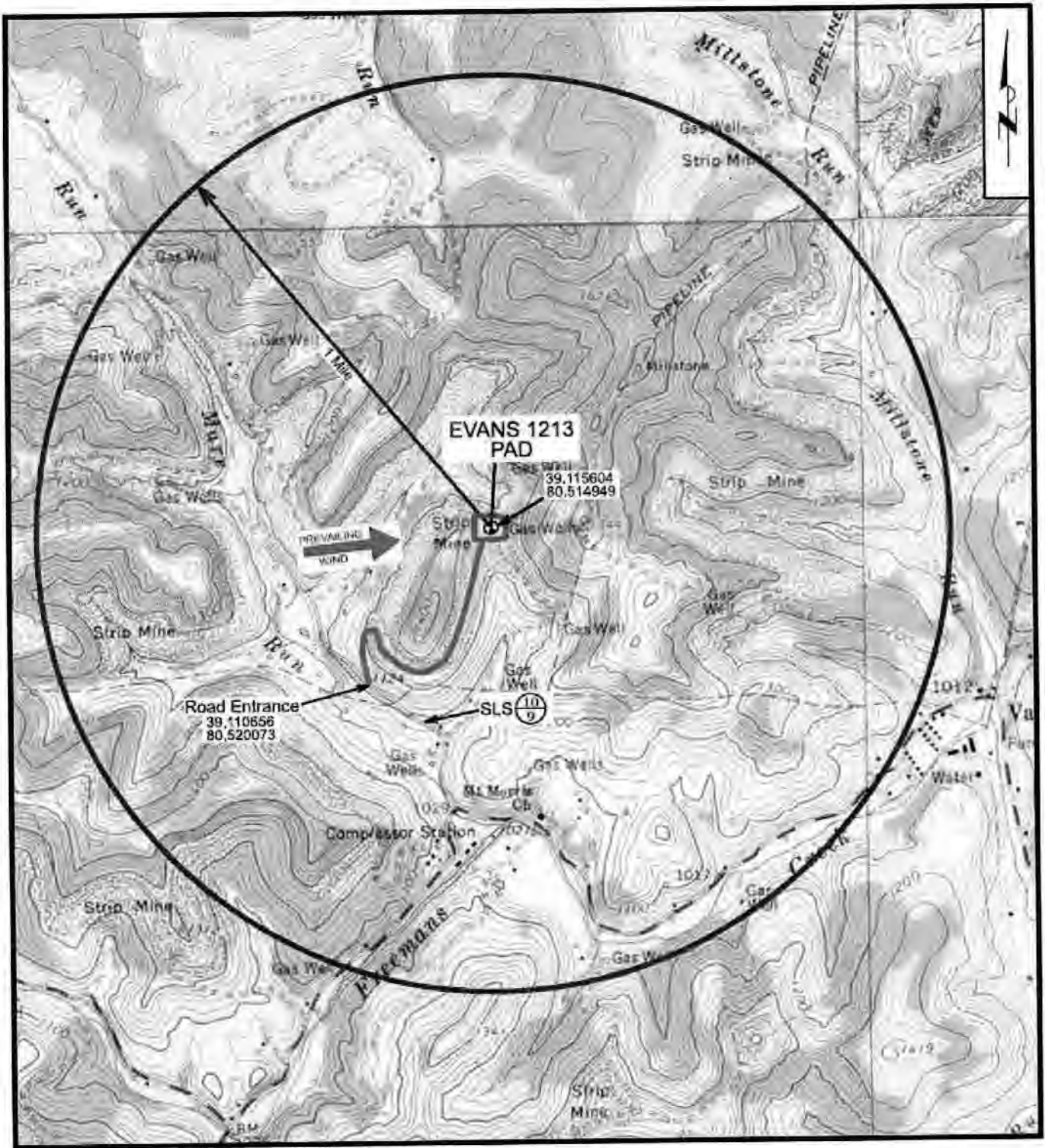
HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

BS 9-23-20

Topographic Map – (38-8 5.7.b2)



9,467' to Bottom Hole

4,308' to Top Hole

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

LONGITUDE 80 - 30 - 00
3,444' to Top Hole

1,835' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Evans 1213 N-1H

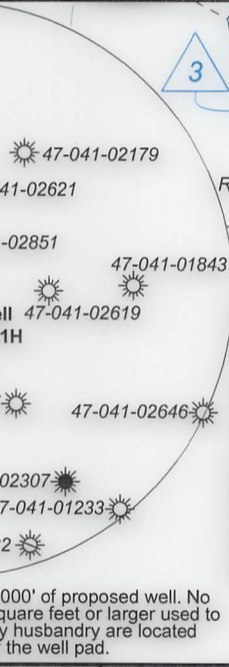
Page 1 of 2

Tag	Bearing	Dist.	Description
L1	N 88°37' W	1,089.6'	#47-041-02619
L2	S 67°22' E	1,349.5'	#47-041-01847
L3	S 26°33' E	489.9'	Gate Post
L4	S 10°59' E	2,462.2'	5/8" Rebar w/cap
L5	N 34°18' E	783.2'	Landing point



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.

Kevin S. James
Kevin S. James, P.S. 2305



Note: 1 water wells was found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 N-1H 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

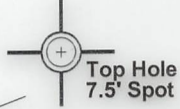
DATE: September 9 2020
OPERATOR'S WELL NO. Evans 1213 N-1H
API WELL NO
47 - 041 - 05708
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: James M. & Suzanne L. Evans
ROYALTY OWNER: Mary C. Burnside, et al, et al LEASE NO: ACREAGE: 294.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,337' 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

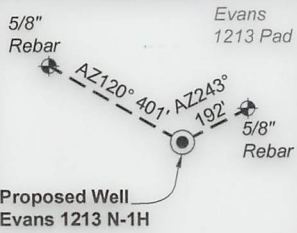


Notes:
Well No. Evans 1213 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,092.28'
E: 1,777,976.99'
Landing Point Coordinates
N: 14,205,739.31'
E: 1,778,418.25'
Bottom Hole Coordinates
N: 14,221,843.99'
E: 1,772,724.54'

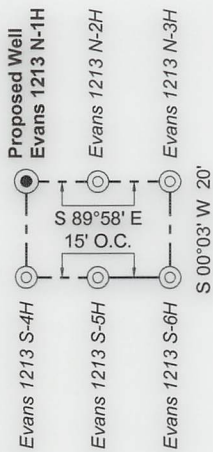
Notes: Well No. Evans 1213 N-1H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'55.95" Latitude: 39°09'41.86"
Longitude: 80°30'54.67" Longitude: 80°32'00.24"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,720.786m N: 4,334,826.718m
E: 541,928.470m E: 540,327.520m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.



Well Location References
Not to Scale



Wellhead Layout (NTS)



ID	Lease
3	C.M. Garrett, et al
4	Ira L. Queen, et al
5	Will E. Morris, et al
6	Clara Queen, et vir, et al
14	Oma G. Hall, et al
16	Flodia B. Smith, et al
18	Lizzie B. Conley
20	W.T. Highland, et al
26	J.S. Norris
27	Stephen Queen, et al
28	Silas E. Gochenour, et ux, et al
29	Lowman E. Garrett, et al
30	J.S. Hall, et ux
31	Mary C. Burnside, et al

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.)
- Adjoiner surface tracts (approx.)

Lewis Co. - Freeman Creek Dist.

No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 4	James M. & Suzanne L. Evans	657 / 228	294.00
2	6C / 21	Thomas R. Zinn, et al	445 / 493	166.25
3	6C / 3.2	John K. Burnside & Bertha F. Benedum	W1 / 392	115.00
4	6C / 3	Phillip E. Burnside, et al	666 / 38	87.20
5	6C / 1	Donald F. Stout, et al	511 / 618	25.50
6	5C / 49	Edward E. Garrett, et al	429 / 425	28.50
7	6B / 10	Michael Terrel Moss, et al	340 / 693	112.00
8	6B / 8	James C. Garrett, et al	621 / 578	47.00
9	6B / 7	Michael Terrel Moss, et al	340 / 693	10.00
10	6B / 6	James C. Garrett, et al	621 / 578	30.00
11	5B / 39	Edward Earl Garrett, et al	429 / 245	55.00
12	6B / 5	Virginia Garrett, et al	WR / 498	136.00
13	5B / 41	Michael J. Kirwan, III	720 / 812	51.00
14	5B / 36	Edward Earl Garrett, et al	429 / 245	64.00
15	6B / 4	Edward Earl Garrett, et al	429 / 245	92.50
16	5B / 35	Ruth U. Chadwick	333 / 413	96.69

Harrison Co. - Union-Outside Dist.

No.	TM / Par	Owner	Bk / Pg	Ac.
17	442 / 8.3	William Coffindaffer, et ux (LE)	1585 / 819	114.79
18	442 / 7	Michael A. & Sarah G. Weaver	1592 / 1189	61.10
19	442 / 8	Mark J. Coffindaffer	W160 / 415	119.78
20	442 / 8.1	Barbara Dawson & Misha McDonnie	W175 / 240	1.11
21	422 / 32	Mike Ross, Inc.	1483 / 698	101.00
22	422 / 29	Dewain Titus, Jr.	1173 / 1045	89.47
23	422 / 13	Michael A. & Barbara J. Davis	1237 / 113	107.75
24	422 / 31	Mike Ross, Inc.	1483 / 698	1.56
25	422 / 15.3	Carol Ann Nay, et al	1560 / 362	83.83

FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 N-1H 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: September 9 2020
OPERATOR'S WELL NO. Evans 1213 N-1H
API WELL NO
47 - 041 - 05708
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: James M. & Suzanne L. Evans
ROYALTY OWNER: Mary C. Burnside, et al, et al

Btm: Big Isaac
QUADRANGLE: Top: Camden
COUNTY: Lewis
ACREAGE: 294.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,337' MD 6,760' TVD

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

4704105708

WW-6A1
(5/13)

Operator's Well No. Evans 1213 N-1H

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

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

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

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

See Attached Sheets

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NOV 23 2020

WV Department of
Environmental Protection

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

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

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

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

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

4704105708

HG Energy II Appalachia LLC
 L213 B-2H Lease Chain

1213N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE				
11	1800973	030000-0043-0000 030000-0049-0000	0100256000 053449 053307	MARY C. BURNSIDE AND JOHN L. BURNSIDE, HER HUSBAND	A. W. WOODFORD AND GEO. F. MCEUIRE	NOT LESS THAN 1/8	33	931				
				GEO. E. MCCUIRE	A. W. WOODFORD	ASSIGNMENT	Unrecorded	Unrecorded				
				A. W. WOODFORD	F. M. GIBBY AND J. H. GALEY	ASSIGNMENT	33	503				
				J. M. GUFFEY AND J. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	505				
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	118	329				
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	DEED	125	371				
				THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	216	289				
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	292				
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	EQUIPMENTARY DEED	294	87				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	422	123				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVS04					
				CNS TRANSMISSION CORPORATION	CNS TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05					
				DOMINION TRANSMISSION, INC.	CHK GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	254				
				CHK GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (20%)	684	57				
				DOMINION TRANSMISSION, INC.	CHK GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (10%)	732	848				
				CHK GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	772	170				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	299				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	568				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (60%)	736	228				
				30	1805514	030000-0014-0000 030000-0015-0000	0100021000	J. S. HALL AND CORA A. HALL, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	43	90
								HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79					370				
HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	150					281				
RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	294					80				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425					123				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVS05									
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNS TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05									
CNS TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05									
DOMINION TRANSMISSION, INC.	CHK GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672					254				
CHK GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (30%)	684					57				
DOMINION TRANSMISSION, INC.	CHK GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712					848				
CHK GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	772					170				
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05									
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	733					529				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723					888				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734					533				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736					228				
								LOMAN E. GARRETT AND VIRGINIA G. GARRETT, HIS WIFE; CHARLES B. GARRETT, JR. AND HELEN L. GARRETT, HIS WIFE; JOHN E. GARRETT AND HELEN HALL GARRETT, HIS WIFE AND JOSEPH C. GARRETT AND BETTE G. GARRETT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	219	312

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FK064315
FK063043
FK064889
FK066141
FK057956

03-005C-0049-0000
06-006C-0001-0000

Q100359000
Q100596000
Q100860000

<p>FRANK MCCLUNG, WIDOWER; DORTHY MCCLUNG; GARNETTA MCCLUNG; MARY STOUT AND HENRY STOUT, HER HUSBAND; WILDA L. BERG AND HENRY B. BERG, HER HUSBAND; HAROLD O. MCCLUNG; KENNETH E. MCCLUNG AND EVELYN MCCLUNG, HIS WIFE; AND KATHIYIN L. WARE AND DENCIL L. WARE, HER HUSBAND</p>	<p>HOPE NATURAL GAS COMPANY</p>	<p>NOT LESS THAN 1/8</p>	<p>221</p>	<p>100</p>
<p>MABEL LITTON AND C. C. LITTON, HER HUSBAND; GLADYS I. LEGGETT AND WALLACE I. LEGGETT, HER HUSBAND; ELZA H. WAYBRIGHT AND JANET M. WAYBRIGHT, HIS WIFE; RAYMOND LLOYD WAYBRIGHT AND INEZ WAYBRIGHT, HIS WIFE; RALPH WAYBRIGHT AND INA WAYBRIGHT, HIS WIFE; ORAL R. WAYBRIGHT AND AUDREY F. WAYBRIGHT, HIS WIFE; WILMA T. SHEETS, WIDOW, WILMA T. SHEETS (GUARDIAN FOR JUDITH BELL); DOLLIE FAUBER AND R. L. FAUBER, HER HUSBAND; ALLEN S. MCCLUNE AND J. F. MCCLUNE, HER HUSBAND; DESSIE LEGGETT AND WILLIE LEGGETT, HER HUSBAND; W. A. MORRIS AND CLARA MORRIS, HIS WIFE; LAURA PARSONS, LLOYD T. MORRIS AND MILDRED MORRIS, HIS WIFE; D. J. EDWARDS, WIDOWER; PAUL EDWARDS AND ROSE ANN EDWARDS, HIS WIFE; JESSIE COX AND RAYMOND COX, HER HUSBAND; WOODROW EDWARDS AND DORIS R. EDWARDS, HIS WIFE; THURMAN L. EDWARDS AND MARGUERETTE EDWARDS, HIS WIFE; CECIL MORRIS AND ELEANOR MORRIS, HIS WIFE; PHILIP EDWARDS AND JUANITA EDWARDS, HIS WIFE; FLODIE LOVE AND OTIS LOVE, HER HUSBAND; W. J. EDWARDS AND MILDRED EDWARDS, HIS WIFE; GERTRUDE ILES AND RUDOLPH ILES, HER HUSBAND; MAPLE LONAS AND JOSEPH LONAS, HER HUSBAND; SADIE H. CARR AND E. R. CARR, HER HUSBAND; SELAH WYATT AND H. L. WYATT, HER HUSBAND; JUDITH BALL AND JOLONE BALL, HER HUSBAND; CURTIS B. SHEETS AND FRANCES SHEETS, HIS WIFE; AND NELLIE C. SHEETS</p>	<p>HOPE NATURAL GAS COMPANY</p>	<p>NOT LESS THAN 1/8</p>	<p>225</p>	<p>149</p>
<p>SOUTH PENN OIL COMPANY</p>	<p>HOPE NATURAL GAS COMPANY</p>	<p>NOT LESS THAN 1/8</p>	<p>277</p>	<p>532</p>
<p>HOPE NATURAL GAS COMPANY</p>	<p>CONSOLIDATED GAS SUPPLY CORPORATION</p>	<p>CONFIRMATORY DEED</p>	<p>294</p>	<p>89</p>
<p>CONSOLIDATED GAS SUPPLY CORPORATION</p>	<p>CONSOLIDATED GAS TRANSMISSION CORPORATION</p>	<p>ASSIGNMENT</p>	<p>425</p>	<p>127</p>
<p>CONSOLIDATED GAS TRANSMISSION CORPORATION</p>	<p>CNG TRANSMISSION CORPORATION</p>	<p>MERGER/NAME CHANGE</p>	<p>WVSO5</p>	
<p>CNG TRANSMISSION CORPORATION</p>	<p>DDMINION TRANSMISSION, INC.</p>	<p>MERGER/NAME CHANGE</p>	<p>WVSO6</p>	
<p>DOMINION TRANSMISSION, INC.</p>	<p>CNX GAS COMPANY LLC</p>	<p>MEMORANDUM OF FARMOUT AGREEMENT</p>	<p>672</p>	<p>154</p>
<p>CNX GAS COMPANY LLC</p>	<p>NOBLE ENERGY, INC.</p>	<p>LIMITED PARTIAL ASSIGNMENT (50%)</p>	<p>684</p>	<p>57</p>
<p>DOMINION TRANSMISSION, INC.</p>	<p>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.</p>	<p>PARTIAL ASSIGNMENT (32%)</p>	<p>712</p>	<p>848</p>

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WV Department of
Environmental Protection

4704105708

Case No.	Case Name	Case Description	Case Number	Company Name	Document Title	Page Count	Document ID	
27	7K000070 7K002763	03-0668-0000-0000 02-09-0000-0000-0000	7J00465000	CNG GAS COMPANY LLC	NORLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505	
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	577
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FAIRMOUT AGREEMENT	723	450
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FAIRMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (88%)	736	220
				STEPHEN P. QUELLEN AND V. C. QUELLEN, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/3	.68	297
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	98
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	177
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WV505	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WV506	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FAIRMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	NOT LESS THAN 1/3	692	570
				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
				NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505	
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FAIRMOUT AGREEMENT	723	489
DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FAIRMOUT AGREEMENT	734	558				
DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (88%)	736	220				
28	7K000070 7K002763	03-0668-0000-0000 02-09-0000-0000-0000	Q100278000 Q100831000 Q09875000	RUTH H. BAILEY SINGLE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/3	302	483
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	177
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WV504	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FAIRMOUT 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	NORLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505	
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FAIRMOUT AGREEMENT	723	489
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	577
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FAIRMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (88%)	736	220
				WILL E. MORRIS AND CAMELLA MORRIS, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/3	300	432
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	177
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WV504	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FAIRMOUT 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	NORLE ENERGY, INC.	ASSIGNMENT	717	1				
NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139				
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WV505					
DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FAIRMOUT AGREEMENT	723	489				

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				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	725	527
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (89K)	736	270
				ROBERT L. MUMGER (ALSO KNOWN AS RUBY KALLAS) AND ROBERT E. MUMFORD, JR. (HUSBAND, MRS. J. J. LANG AND JUNIOR A. LANG, HER HUSBAND; JOSEPHINE TRAVIS AND RAYMOND TRAVIS, HER HUSBAND) AND HAROLD E. DEDALEK, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	210	280
				CHARLES M. GARRETT AND DELPHIA GARRETT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	210	529
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	80
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	NUMBER/NAME CHANGE	WVS03	
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (59%)	686	57
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	848
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	721	1
				NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				HIG ENERGY, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	489
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	518
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (89K)	736	270
				IRA L. QUEEN AND EFFIE QUEEN	FRED DILL	NOT LESS THAN 1/8	80	110
				TAL BARNSDALL, SOUTHERN OIL COMPANY, FRED'S, RICH, AND W.S. MOYRE	RESERVE GAS COMPANY	ASSIGNMENT	85	386
				HOPE NATURAL GAS COMPANY AND RESERVE GAS COMPANY	ORLDE OIL COMPANY	ASSIGNMENT	85	426
				ORLDE OIL COMPANY	HOPE NATURAL GAS COMPANY AND RESERVE GAS COMPANY	ASSIGNMENT	85	345
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156	200
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	154	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	686	57
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	848
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	721	1
				NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	489
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	527
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	518
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (89K)	736	270
				CLARA E. QUEEN AND G. L. QUEEN, HER HUSBAND; L. CARL GARRETT AND VIRGINIA G. GARRETT, HIS WIFE; JOHN E. GARRETT, SINGLE; JOSEPH B. GARRETT AND RUTH G. GARRETT, HIS WIFE; CHARLES M. GARRETT, JR. AND JULIA W. GARRETT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	210	275
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127

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6	FD02196	D/0/0/0000000000	0109000000	CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNR GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. CNR GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNR GAS COMPANY LLC NOBLE ENERGY, INC. CNR GAS COMPANY LLC AND NOBLE ENERGY, INC. CNR GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HIG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE MEMORANDUM OF FARMOUT AGREEMENT MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) NOT LESS THAN 1/3 PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE	WVS05 WVS05 672 684 693 713 717 722 WVS05	154 57 570 848 1 170
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	409
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (60%)	735	220
				JIMMIE B. SMITH AND D. L. SMITH, HER HUSBAND, W. B. TILDNER AND FREDERICK D. WALKER, JR. WIFE, AND, LITIA W. WESTFALL AND CHARLES E. WESTFALL, HER HUSBAND				
				HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/3	216	317
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	299	89
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	177
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	713	848
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	409
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	AMENDED AND REVISED PARTIAL ASSIGNMENT	723	577
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (60%)	735	220
				W. T. HIGHLAND AND OESSIE HIGHLAND, HIS WIFE, G. B. HIGHLAND, MATTIE THOMPSON AND ARTHUR THOMPSON, HER HUSBAND; HIGHER HIGHLAND AND BLUE HIGHLAND, HIS WIFE, AND, GERRIE HIGHLAND				
				RESERVE GAS COMPANY	RESERVE GAS COMPANY	NOT LESS THAN 1/3	85	335
				HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	135	202
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	299	89
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	177
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNR GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	713	848
				CNR GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	409
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HIG ENERGY II APPALACHIA, LLC	ASSIGNMENT (60%)	735	220
				LITZIE B. COMLEY				
				HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/3	217	305
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	299	89
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	177
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05	

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18	FK065219	03-0058-0035-0000 p/o 03-0060-0002-0000	QJ00725000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	151
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
						SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	736	720
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		
				14	FK077991	20-0442-0007-0000 20-0442-0007-0001 20-0442-0007-0002 20-0442-0008-0000 20-0442-0008-0001 20-0442-0008-0003 20-0422-0037-0000	QJ00844000 FEELGH0055	OMA G. HALL, SINGLE; MARIE P. HALL, WIDOW; EVELYN H. TAYLOR, WIDOW; BERTHA H. MILLER AND A.D. MILLER, HER HUSBAND; CHARLES R. HALL, SINGLE; HELEN M. HALL, SINGLE; PAMYLA H. SHANKLIN AND WM. M. SHANKLIN, JR., HER HUSBAND; GERTRUDE BEALL AND BLAIR B. BEALL, HER HUSBAND; HELEN MCCOY, SINGLE; AND, ADA B. HALL, WIDOW
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	1032					688
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136					250
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	1143					921
CNG DEVELOPMENT COMPANY	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1169					820
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58					367
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF 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
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600					892
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05					
		SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601					581
DOMINION 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 (68%)	1647					1081

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

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September 7, 2020

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

RE: Drilling Under Roads – Evans 1213 N-1H
Freemans Creek District, Lewis County
West Virginia

Dear Mr. Kennedy:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Evans 1213 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 McDonald 1211 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 C. White

Enclosures

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

Date of Notice Certification: 09/29/2020

API No. 47-
Operator's Well No. Evans 1213 N-1H
Well Pad Name: Evans 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>541928.6</u>
County:	<u>Lewis</u>		Northing:	<u>4328720.8</u>
District:	<u>Fraumans Creek</u>	Public Road Access:	<u>Mare Run Road CR 109</u>	
Quadrangle:	<u>Gambier WV T 5's</u>	Generally used farm name:	<u>Evans</u>	
Watershed:	<u>Mare Run</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: (i) 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:		DOG OFFICE USE ONLY	
*PLEASE CHECK ALL THAT APPLY			
<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 type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY	or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input 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 checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED
	<input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION			<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE			<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<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 notified 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.

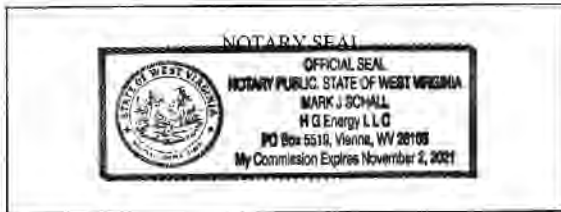
4704105708

Certification of Notice is hereby given:

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

Well Operator: HG II Appalachia, LLC
By: Diane White *Diane White*
Its: Agent
Telephone: 304-420-1119

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3172
Email: dwhite@hgenergyllc.com



Subscribed and sworn before me this 23rd day of September 23, 2020
Mark J. Schall Notary Public
My Commission Expires 11/2/2021

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@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: 09/11/20 Date Permit Application Filed: 09/15/20

Notice of:

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

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

- [] PERSONAL SERVICE
- [] REGISTERED MAIL
- [X] 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.

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

[X] SURFACE OWNER(s)
Name: Suzanne & James Evans (pad, road, water) ✓
Address: 1064 38th Street
Parkersburg, WV 26104

Name: _____
Address: _____

[] SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____

Name: _____
Address: _____

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

[] COAL OWNER OR LESSEE
Name: NA
Address: _____

[] COAL OPERATOR
Name: NA
Address: _____

[] SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

[X] OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: Dominion Energy Transmission - Alvin Ronald Walden ✓
Address: 3025 White Oak Blvd
Bridgman, WV 26830

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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

WW-6A
(8-13)

API NO. 47-

4704105708

OPERATOR WELL NO. Evans 1213 H-001

Well Pad Name: Evans 1213

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 or determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (u), 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.

WW-6A
(8-13)

API NO. 470-4105708
OPERATOR WELL NO. Evans 1213 N-1H
Well Pad Name: Evans 1213

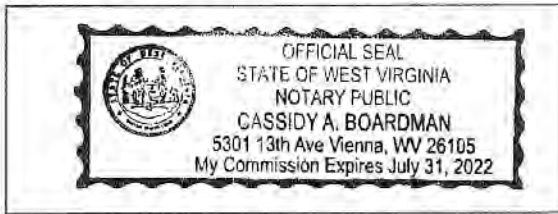
Notice is hereby given by:

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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



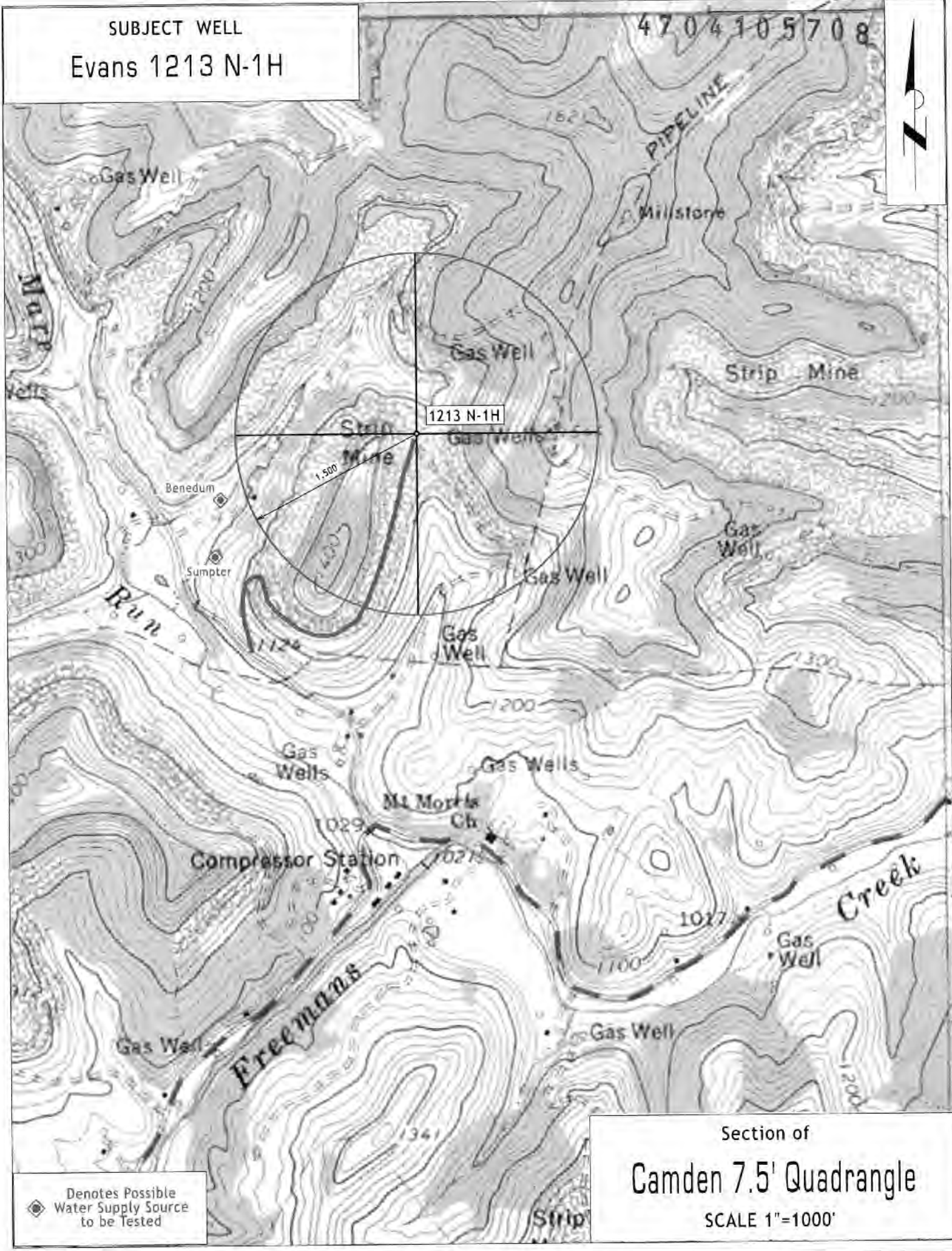
Subscribed and sworn before me this 4th day of September, 2020.

Cassidy A. Boardman Notary Public

My Commission Expires 7/31/2022

SUBJECT WELL
Evans 1213 N-1H

4704105708



1213 N-1H

◆ Denotes Possible Water Supply Source to be Tested

Section of
Camden 7.5' Quadrangle
SCALE 1"=1000'



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

4704105708

September 22, 2020

Suzanne & James Evans
1064 38th Street
Parkersburg, WV 26104

RE: Evans 1213 N-1H Well Work Permit Application - Notification
Freemans Creek District, Lewis County
West Virginia

Dear Mr. and Mrs. Evans:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures



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

4704105708

September 22, 2020

Dominion Energy Transmission
Attn: Ron Walden
925 White Oaks Blvd
Bridgeport, WV 26330

RE: Evans 1213 N-111 Well Work Permit Application - Notification
Freemans Creek District, Lewis County
West Virginia

Dear Sir:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

4704105708

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: 09/02/2020 **Date Permit Application Filed:** 09/15/2020

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: Suzanne & James Evans
Address: 1064 38th Street
Parkersburg, WV 26104

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: West Virginia UTM NAD 83 Easting: 541928.5
County: Lewis Nothing: 14205092.28
District: Froemans Creek Public Road Access: Maré Run Road/OR 10/9
Quadrangle: Camden WV 7.5' Generally used farm name: Evans
Watershed: Maré Run

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 Diane White
Facsimile: 304-863-3172

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

Oil and Gas Privacy Notice:

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

**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: 09/03/2020 **Date Permit Application Filed:** 09/15/2020

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

- CERTIFIED MAIL HAND DELIVERY
- 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: <u>Suzanne & James Evans</u>	Name: _____
Address: <u>1064 38th Street</u>	Address: _____
<u>Parkersburg, WV 26104</u>	_____

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>541928.5</u>
County: <u>Lewis</u>	UTM NAD 83 Northing: <u>4329726.8</u>
District: <u>Freemans Creek</u>	Public Road Access: <u>Mare Run Road / CR 1019</u>
Quadrangle: <u>Camden WV 7.5'</u>	Generally used farm name: <u>Evans</u>
Watershed: <u>Mare Run</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: <u>HG Energy II Appalachia, LLC</u>	Address: <u>5280 Dupont Road</u>
Telephone: <u>304-420-1119</u>	<u>Parkersburg, WV 26101</u>
Email: <u>dwhite@hgenergyllc.com</u> <i>Alane White</i>	Facsimile: <u>304-863-3172</u>

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.



4704105708

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

October 2, 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 Evans 1213 Pad, Lewis County
Evans 1213 N-1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2020-0314 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 10/9 SLS MP 0.38.

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: Diane White
HG Energy, LLC.
CH, OM, D-7
File

4704105708

HG Energy II Appalachia, LLC**List of Frac Additives by Chemical Name and CAS #****Evans 1213 Well Pad (N-1H to N-3H, S-4H to S-6H)**

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	

OPERATOR: HG Energy II Appalachia, LLC WELL NO: Evans 1213 N-1H

PAD NAME: Evans 1213

REVIEWED BY: Diane White SIGNATURE: Diane White

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
 - DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
 - DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
 - DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
 - Surface Owner Waiver and Recorded with County Clerk, OR
 - DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
 - Surface Owner Waiver and Recorded with County Clerk, OR
 - DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
 - Surface Owner Waiver and Recorded with County Clerk, OR
 - DEP Variance and Permit Conditions



CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS

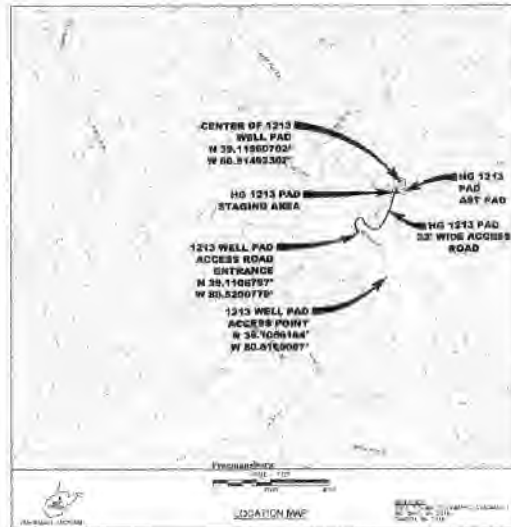
HG 1213 WELL PAD

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

FREEMANS CREEK DISTRICT LEWIS 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 1-800-245-4646 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 and most sensitive 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 Grubbing - Implement clearing and grubbing 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 strips, and complete implementation of stormwater BMPs in the 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
525C DUNN ROAD
PARKERSBURG, WEST VIRGINIA 26101
(304) 420-1100

PREPARED BY
PENN ENVIRONMENTAL & REMEDIATION, INC.
111 RYAN COURT
PITTSBURGH, PA 15203
(412) 722-1223

NO.	DESCRIPTION	DATE	BY	REVISION
1	ISSUED FOR PERMIT	12/02/20	JL	1
2	REVISED FOR COMMENTS	12/02/20	JL	2
3	REVISED FOR COMMENTS	12/02/20	JL	3
4	REVISED FOR COMMENTS	12/02/20	JL	4
5	REVISED FOR COMMENTS	12/02/20	JL	5

WELL #	LAT	LONG
1213-1H	N 39.115833	W 80.515007
1213-2H	N 39.115833	W 80.514848
1213-3H	N 39.115834	W 80.514848
1213-4H	N 39.115834	W 80.514848
1213-5H	N 39.115866	W 80.515003
1213-6H	N 39.115866	W 80.514848
1213-7H	N 39.115866	W 80.514897
1213-8H	N 39.115802	W 80.514848

	LATITUDE	LONGITUDE
1213 WELL PAD ACCESS POINT	N 39.1059184°	W 80.5150087°
1213 WELL PAD ACCESS ROAD ENTRANCE	N 39.1108797°	W 80.5200778°

RECORD	RECORD NO.	RECORD NO.	AREA
DRAWN	21	21	21
CHECKED	21	21	21
TOTAL AREA OF DISTURBANCE	14,265 AC		



TITLE SHEET
**HG 1213 PAD
FREEMANS CREEK DISTRICT
LEWIS COUNTY, WEST VIRGINIA**

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

WEST VIRGINIA

CALL BEFORE YOU DIG!

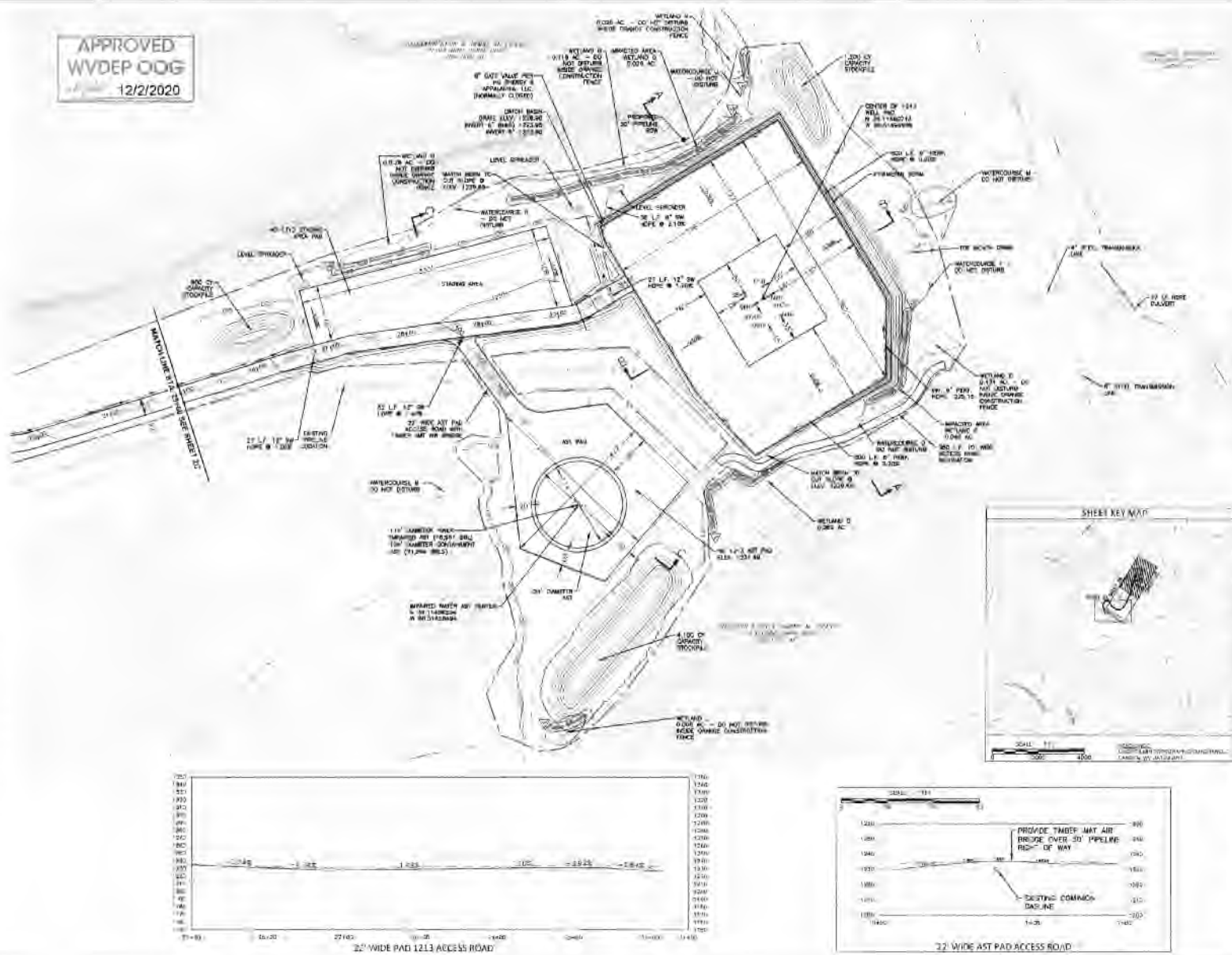
DN1 911 of 801.245.4646

Penn E&R

DRAWING NUMBER: PAD06120-001 SHEET: 1

PROJECT FILE NO.: 12134 DISTURBANCE NO.: 12134 WELL PAD NO.: 12134

APPROVED
 WV DEP O&G
 12/2/2020



1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WV DEP) AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WV DOT) PRIOR TO THE START OF CONSTRUCTION.

2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND PUBLIC ROADS AT ALL TIMES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WV DEP) AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WV DOT) PRIOR TO THE START OF CONSTRUCTION.

4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND PUBLIC ROADS AT ALL TIMES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WV DEP) AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WV DOT) PRIOR TO THE START OF CONSTRUCTION.

6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND PUBLIC ROADS AT ALL TIMES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WV DEP) AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WV DOT) PRIOR TO THE START OF CONSTRUCTION.

8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND PUBLIC ROADS AT ALL TIMES.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WV DEP) AND THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WV DOT) PRIOR TO THE START OF CONSTRUCTION.

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20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND PUBLIC ROADS AT ALL TIMES.

NO.	DATE	DESCRIPTION	BY	CHECKED
1	12/02/2020	ISSUED FOR PERMITS	[Signature]	[Signature]
2	12/02/2020	REVISED FOR PERMITS	[Signature]	[Signature]

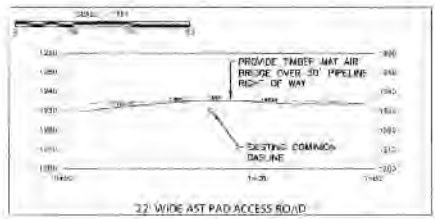
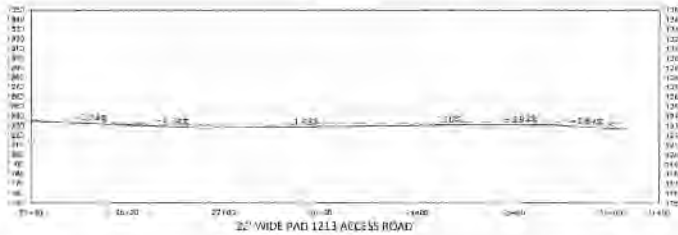
**SITE DEVELOPMENT PLAN
 WITH EROSION AND SEDIMENTATION CONTROLS**

HG 1213 PAD
FREEMANS CREEK DISTRICT
LEWIS COUNTY, WEST VIRGINIA

PREPARED BY:
HQ ENERGY & ADVALATHA, LLC
PARKERSBURG, WEST VIRGINIA

APPROVED BY:
 [Signature]
Penn E&R
 Environmental Engineers

DATE: 12/02/2020
 SHEET: 30 OF 30



PROJECT: [unreadable] DATE: 12/02/2020

CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1213 WELL PAD

4704105708

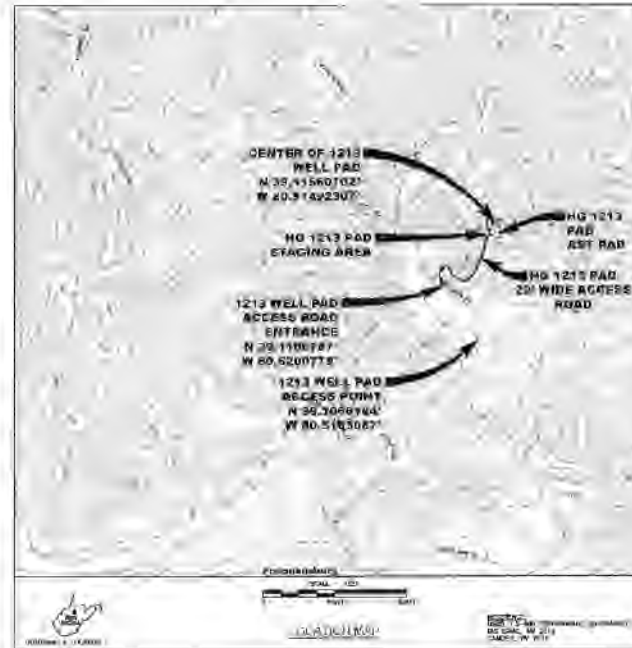
SHT. NO.	SHEET TITLE
1	TITLE SHEET
2A-2D	SITE DEVELOPMENT PLANS
3	WELL PAD SECTIONS
4A-4B	ACCESS ROAD SECTIONS
5A-5T	CONSTRUCTION NOTES & DETAILS
6A-6C	RESTORATION PLAN
7	PROPERTY MAP

FREEMANS CREEK DISTRICT LEWIS COUNTY WEST VIRGINIA

DESCRIPTION	AMOUNT	UNIT	PRICE	TOTAL
CONTRACTOR'S FEE	1000	HOURS	100	100000
PERMIT FEE	1000	DOLLARS	1	1000
DESIGN FEE	1000	HOURS	100	100000
CONSTRUCTION FEE	1000	HOURS	100	100000
INSURANCE	1000	DOLLARS	1	1000
TOTAL	4000			400000

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 1-800-745-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and areas 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 earth 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 down slope E&S BMPs have been constructed and stabilized.
- Stiparia 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 grass, and complete implementation of stormwater BMPs to the total 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.



WELL #	LAT.	LONG.
W-1H	N 39.1156348	W 80.5162023
W-2H	N 39.1156345	W 80.5142493
W-3H	N 39.1156343	W 80.5144864
S-4H	N 39.1157196	W 80.5150026
S-5H	N 39.1157197	W 80.5143487
S-6H	N 39.1156346	W 80.5150022

WELL ELEVATIONS 1213-16 1213S-17S

	LATITUDE	LONGITUDE
1213 WELL PAD ACCESS POINT	N 39.1086184	W 80.5162087
1213 WELL PAD ACCESS ROAD ENTRANCE	N 39.1106787	W 80.5200775

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA W/IN LOT
SUZANNE TRUB & JAMES W. TRUBS	21403-006-003-003	36.1278	14.381
LAURENCE TRUB	N/A	N/A	0.000
TOTAL LIMIT OF DISTURBANCE			14.381 AC.

THE PREPARED OR CONTRACTED BY ENGINEER OF A PROFESSIONAL ENGINEER HAS REVIEWED THESE PLANS AND APPROVES THEM FOR CONSTRUCTION. THE ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PLANS AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE ENGINEER'S REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE PLANS AND DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON.



TITLE SHEET

HG 1213 PAD
FREEMANS CREEK DISTRICT
LEWIS COUNTY, WEST VIRGINIA

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

APPROVED	DATE	PROJECT NO.	DRAWING NO.
[Signature]	09/23/2020	1000-PA002130	1000-PA002130
SHEET 1		111 RYAN COURT, PITTSBURGH, PA 15205 412-722-1222	

WEST VIRGINIA **811** CALL BEFORE YOU DIGI

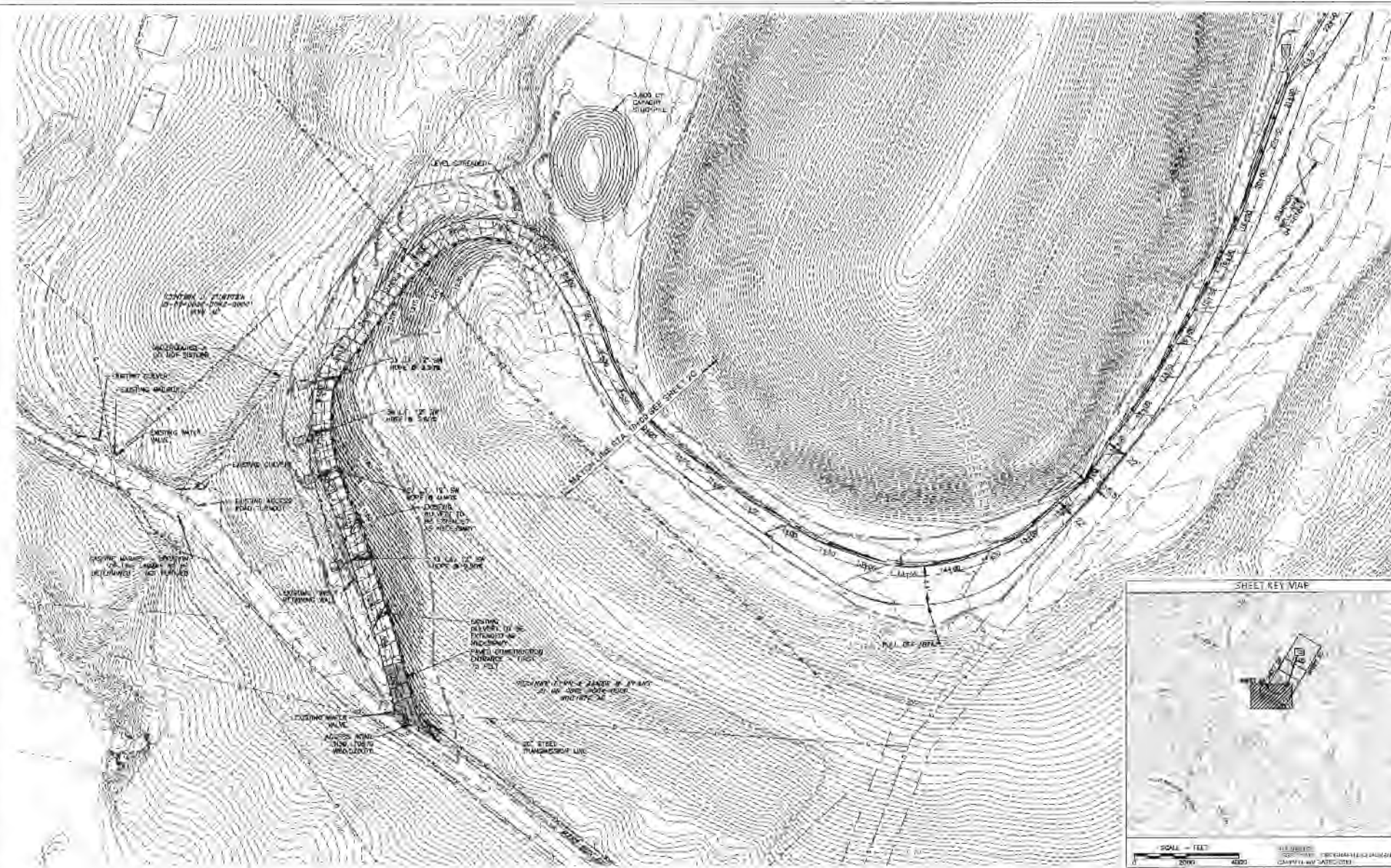
DIAL 811 OR 800.245.4848

DRINK RESPONSIBLY

4704105708

S:\PROJECT FILES\2020-PA002130\HG 1213\WELL PAD\1213-16-17S.dwg 11/13/2020 10:58:10 AM

MAPS:\2020\04\02\01\05\1213.4E * THE ANTRACITE WEST 5022 TWP * 22 X 36 WELLS * PLAN SHEETS:\2020\04\02\01\05\1213.4E.PDW



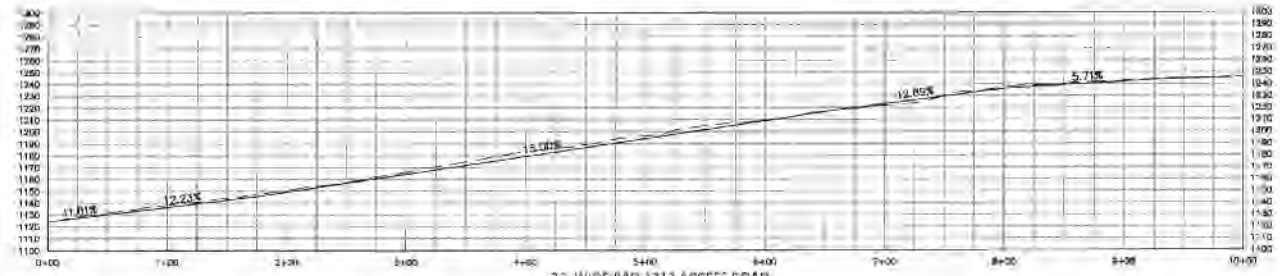
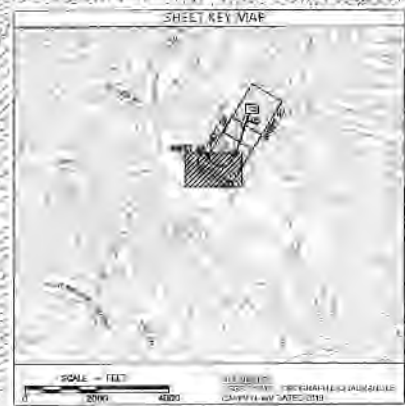
LEGEND

- NEW CONCRETE
- ERASE ANYON
- ACCESS TO ROAD (CHAIN)
- COMPOSITE ELEVATION AT 100 FT INTERVALS (NOTES)
- STRIKED CONCRETE (FILL) (DASH)
- APPROXIMATE LIMITS OF DISTURBANCE
- APPROXIMATE PROPERTY LINE
- EXISTING 100' (CHAIN)
- EXISTING INTERMEDIATE CENTERLINE
- EXISTING SURFACE (FROM CENTERLINE)
- EXISTING SURFACE (INTERMEDIATE CENTERLINE)
- EXISTING ACCESS ROAD
- EXISTING OVERHEAD UTILITY LINE
- EXISTING DRY CREEK
- EXISTING WATER LINE
- ESTIMATED WATERCOURSE
- WATERCOURSE TIE-IN

SCALE - FEET
0 100 200

SECTION

- NOT FROM GENERAL NOTES**
- ALL PROPOSED EROSION CONTROL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES:
 - CONSTRUCTION SHALL COMMENCE WITH THE PROTECTION OF THE EXISTING EROSION CONTROL STRUCTURES (ECS) AND OTHER EROSION CONTROL STRUCTURES (ECS) THAT ARE IDENTIFIED AS BEING IN GOOD CONDITION AND OTHER STRUCTURES AS IDENTIFIED BY THE ENGINEER.
 - ECS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.
 - NO DISTURBANCE OF SOIL STABILITY ANALYSIS HAS BEEN PERFORMED FOR THIS SITE.
 - CONSTRUCTION SHALL BE RESPONSIBLE TO PROTECT EXISTING EROSION CONTROL STRUCTURES AND OTHER EROSION CONTROL STRUCTURES FROM CONSTRUCTION.
 - CONSTRUCTION SHALL BE RESPONSIBLE TO PROTECT EXISTING EROSION CONTROL STRUCTURES AND OTHER EROSION CONTROL STRUCTURES FROM CONSTRUCTION.
 - CONSTRUCTION SHALL BE RESPONSIBLE TO PROTECT EXISTING EROSION CONTROL STRUCTURES AND OTHER EROSION CONTROL STRUCTURES FROM CONSTRUCTION.
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 - CONSTRUCTION SHALL BE RESPONSIBLE TO PROTECT EXISTING EROSION CONTROL STRUCTURES AND OTHER EROSION CONTROL STRUCTURES FROM CONSTRUCTION.



REFERENCE:
PROPERTY BOUNDARIES & OTHER INFORMATION OBTAINED VIA PROPERTY RECORDS AND AERIAL PHOTOGRAPHS.
EXISTING ELEVATIONS OBTAINED FROM TERRACE SURVEY ON 11/04/2019.

REVISION	DATE	DESCRIPTION

SCALE - FEET
0 50 100 150

SITE DEVELOPMENT PLAN
WITH EROSION AND SEDIMENTATION CONTROLS
HC 1213 PAD
FREMANS CREEK DISTRICT
LEWIS COUNTY, WEST VIRGINIA

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

APPROVED: 08/18/2020
CHECKED: 08/18/2020
DRAWN: 08/18/2020
PROJECT NO: 4700-PA070103

Penn E&R
Engineering & Construction, Inc.

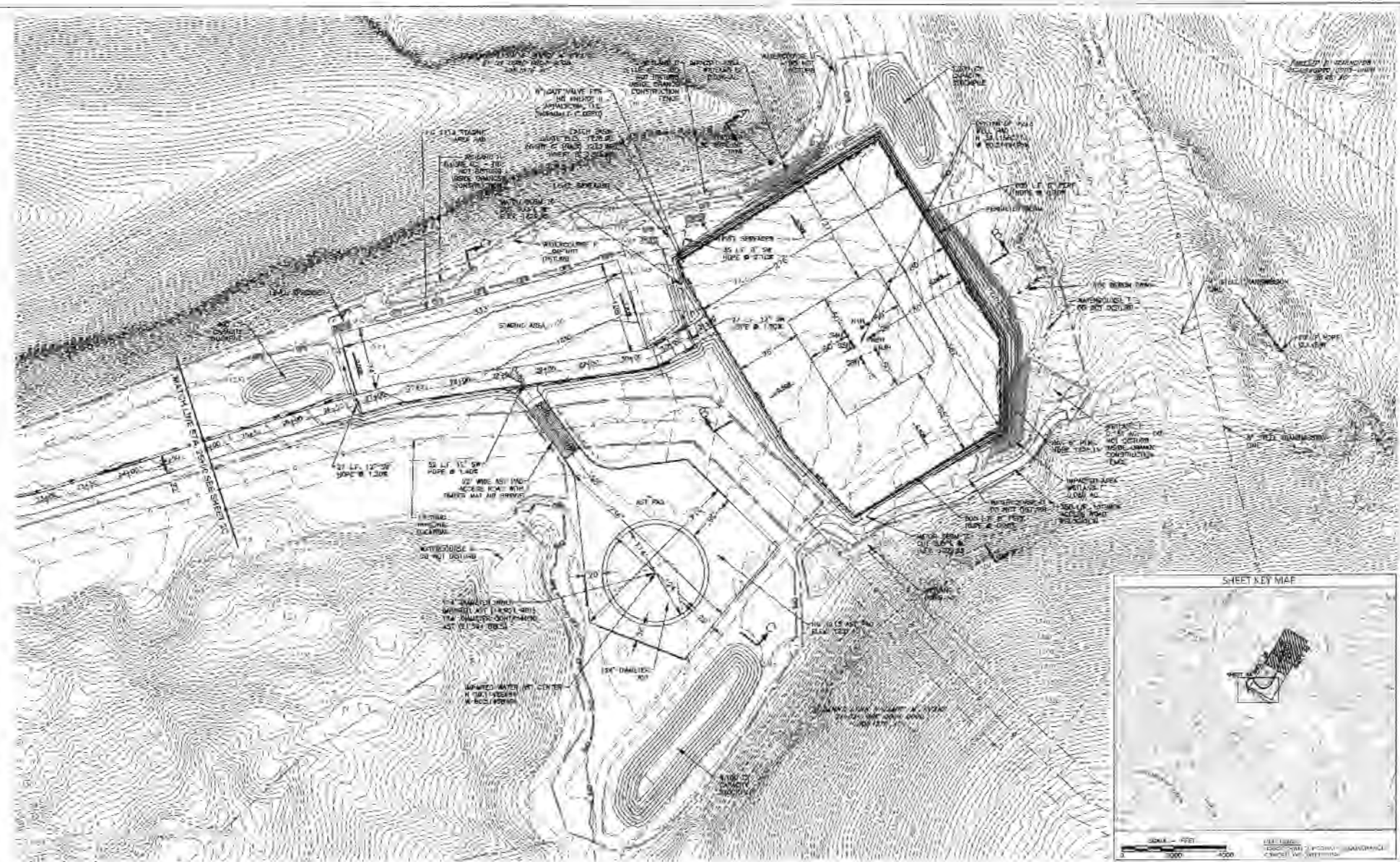
DRAWING NUMBER: FDD03150-601
SHEET 28

111 8TH LANE BETHLEHEM, PA 17802
610-132-1232

B.S. 9-23-20

4704105708

CLARENCE (LOCAL) - 11/15/2017 WEST SIDE PMP & VETS. CIV. WELLS PLAN, SHEETS 200-000001/A - 2000-000002/B



LEGEND

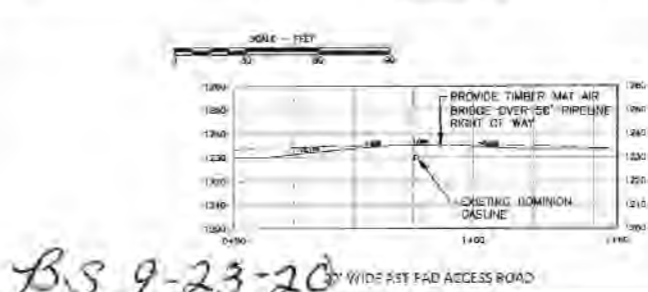
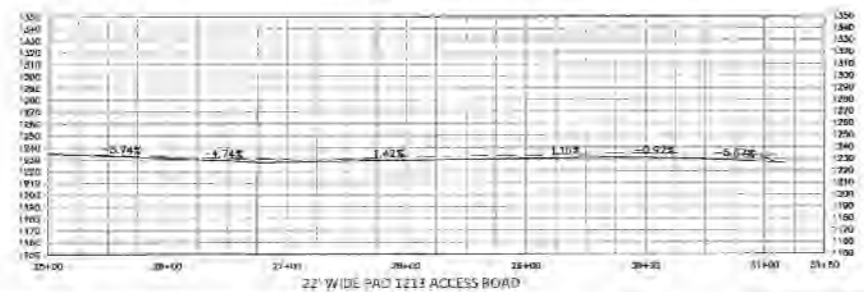
- 1. OPEN DRAIN (D)
- 2. SPRAWL (S)
- 3. ACCESS (A)
- 4. CONCRETE (C)
- 5. STAKED CONJECTURE (SC)
- 6. APPROXIMATE LIMITS OF DISTURBANCE
- 7. MAXIMUM DISTURBANCE LIMIT
- 8. EXISTING ROAD CENTERLINE
- 9. EXISTING INTERMEDIATE CENTERLINE
- 10. EXISTING SURFACE INTERMEDIATE CENTERLINE
- 11. EXISTING ROAD FRONT
- 12. EXISTING DISTANCE UTILITY LINE
- 13. EXISTING GAS LINE
- 14. EXISTING WATER LINE
- 15. EXISTING SEWER LINE
- 16. EXISTING UTILITY
- 17. CONSTRUCTION FENCE

SECTION

SECTION CONTROL PLANNET

CUSTOMER ADDRESS

- NOT WITHIN GENERAL NOTES:**
1. ALL HORIZONTAL DIMENSIONS SHOWN ON THIS PLAN UNLESS NOTED OTHERWISE.
 2. THE CONTRACTOR SHALL CONTACT THE DISTRICT ENGINEER AND LOCAL HEALTH DEPARTMENT TO OBTAIN NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.
 3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
 4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
 5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
 6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
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 8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
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BS 9-23-20

REVISION	DATE	DESCRIPTION

SCALE - FEET

0 50 100 150

SITE DEVELOPMENT PLAN WITH EROSION AND SEDIMENTATION CONTROLS

HS 0.213 PAD

FREEMANS CREEK DISTRICT

LEWIS COUNTY, WEST VIRGINIA

PREPARED FOR:

MG ENERGY (PALACHIA), LLC

PARKERSBURG, WEST VIRGINIA

APPROVED: MFP 08/10/2020

CHECKED: ZMC 08/10/2020

DRAWN: SM 08/10/2020

PROJECT No.: 4000-PA0001 01

DRAWING NUMBER:

PA00120-001

SHEET 20

Penn E&R

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