



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

Friday, November 20, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for FLESHER 1212 N-4H
47-041-05707-00-00

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', is positioned above the printed name.

James A. Martin
Chief

Operator's Well Number: FLESHER 1212 N-4H
Farm Name: JARED D & REBECCA J FLESI
U.S. WELL NUMBER: 47-041-05707-00-00
Horizontal 6A New Drill
Date Issued: 11/20/2020

Promoting a healthy environment.

PERMIT CONDITIONS

4704105707

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 4704105707

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: November 13, 2020
ORDER NO.: 2020-W-5

INTRODUCTION

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

FINDINGS OF THE CHIEF

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

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. HG is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 5260 Dupont Circle, Parkersburg, WV 26101.
3. On September 1, 2020 HG submitted a well work permit application identified as API# 47-041-05707. The well is located on the Flesher Pad in the Freemans Creek District of Lewis County, West Virginia.
4. On September 1, 2020 HG requested a waiver for Wetland B as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API# 47-041-05707. Wetlands Z, DD, MF, ME, MB and MD are excluded from this waiver, they are more than 100’ from the LOD of the pad.

CONCLUSIONS OF LAW

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

ORDER

West Virginia Code §22-6A-12(b) requires, in part, that “no well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland W02 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit application identified as API#s 47-041-05707. The Office of Oil and Gas hereby **ORDERS** that HG shall meet the following site construction and operational requirements for the Flesher 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. Wetland B shall be protected by two layers of eighteen-inch (18”) 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 13th day of November 2020.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

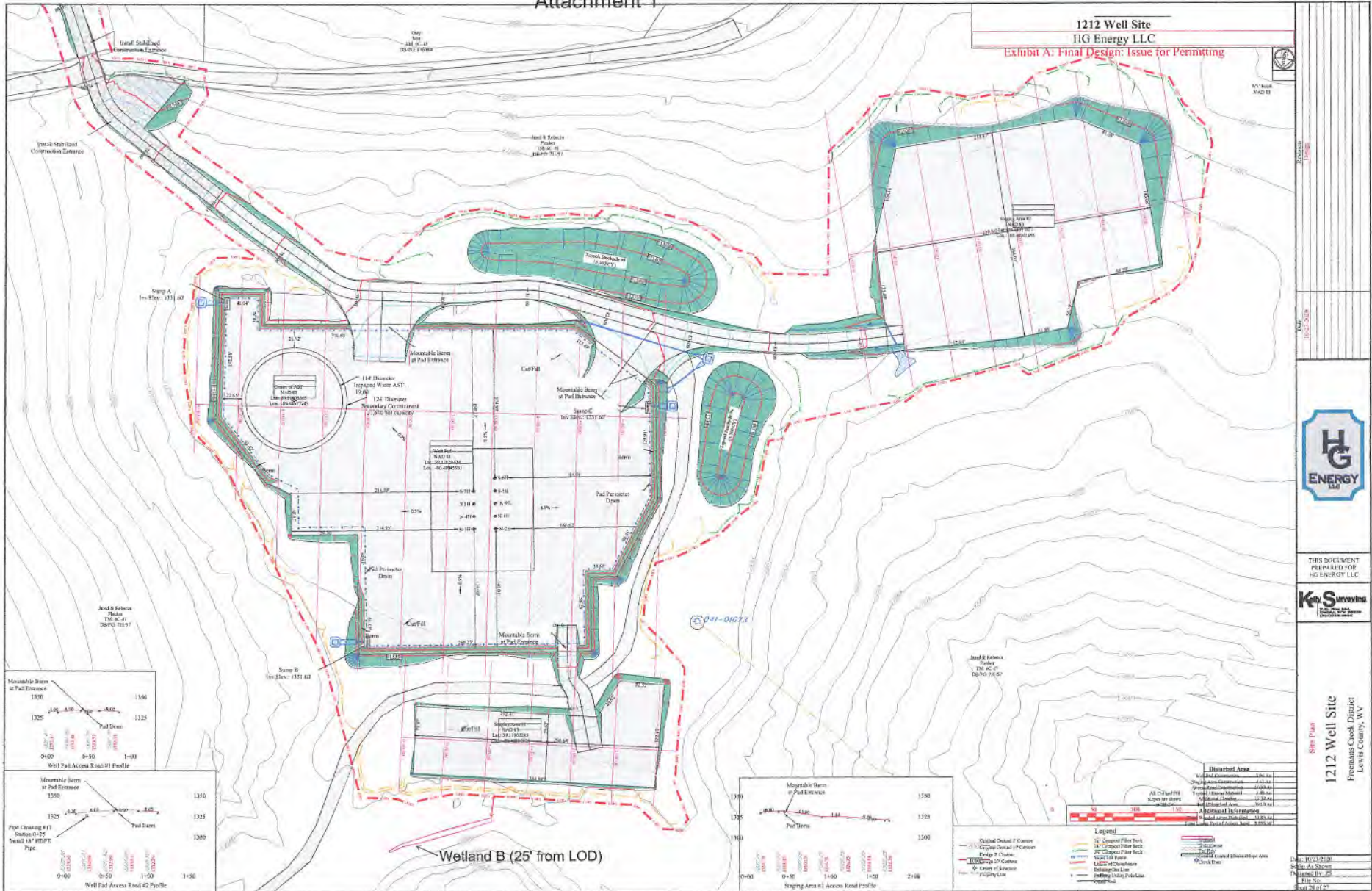
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: **James Martin** Digitally signed by James Martin
Date: 2020.11.13 10:42:10 -0500

JAMES A. MARTIN, CHIEF

Attachment 1

1212 Well Site
 HIG Energy LLC
 Exhibit A: Final Design: Issue for Permitting



THIS DOCUMENT PREPARED FOR HIG ENERGY LLC



1212 Well Site
 Fremont Cook District
 Lewis County, NY

Scale: 1" = 200'
 Date: 11/15/2023
 Drawn: J. J. [Name]
 Checked: J. J. [Name]
 Title: 1212 Well Site
 Sheet 22 of 27

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: 1212 N-4HWell Operator: HG Energy II Appalachia, LLCWell Number: 1212 N-4HWell Pad Name: Flesher 1212 PadCounty, District, Quadrangle of Well Location: Lewis County, Freemans Creek District, Weston 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: 1212 N-4H

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 1212 Pad Drawing Set), there are no perennial streams within 100 feet of the Limit of Disturbance (LOD). An intermittent stream, an unnamed tributary of Freemans Creek, lies within this buffer near the site entrance.

The following wetlands are within 100 feet of the LOD:

Wetland B (0.027 acre, not impacted)

Wetland Z (0.012 acre, not impacted)

Wetland DD (0.030 acre total, 0.008 acre impacted)

Wetland MF (0.174 acre total, 0.025 acre impacted)

Wetland ME (0.045 acre total, 0.002 acre impacted)

Wetland MB (0.025 acre total, 0.025 acre impacted)

Wetland MD (0.017 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 1212 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 Alternate Location 2 figure. Location to North 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 1212 well pad. The site and access road are limited by topographic constraints (steep slopes).

d. The proposed HG 1212 well pad is the least environmentally damaging practicable alternative as it avoids perennial streams, minimizes impacts to wetlands and farmland, and does not disturb any riparian buffers.

11/3/14

Wetland and Perennial Stream Waiver Request

API Number: _____

Operator's Well Number: 1212 N-4H

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

The contractor shall delineate sensitive areas, LOD, and shall install barriers where equipment may not be parked, stage, operated, or located for any purpose before construction activities commence. E&S controls will be installed as necessary during initial site access to minimize accelerated erosion and sedimentation. Perimeter controls (compost filter sock) shall be installed immediately after the site is accessed. Land clearing and grading shall commence only after all downslope E&S controls have been constructed and stabilized. E&S controls shall be maintained during all construction activities. Upon completion of construction, stabilization will be provided including seeding & mulching. Temporary controls shall be removed only once the site is stabilized. A 2' berm will be constructed around the pad to capture any discharges. A french drain will be installed on the perimeter of the pad to capture any runoff from the well pad surface. The french drain consists of 6" perforated HDPE pipe, with an impermeable liner surrounding the backfill. The french drain will flow to an HDPE-lined sump located on the pad. The sump is designed to contain the runoff from a 10-year storm event on the pad without discharge. Stormwater runoff captured by the sump will be reused or disposed of off site properly.

- 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 1212 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.

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 Freemantle Weston 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Flesher 1212 N-4H Well Pad Name: Flesher 1212

3) Farm Name/Surface Owner: Flesher Public Road Access: SR19 to Kincheloe Run Rd to Valley Chapel Rd

4) Elevation, current ground: 1338' Elevation, proposed post-construction: 1332'

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 6845'/6927' and 82' in thickness. Anticipated pressure at 4314#. RECEIVED
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8) Proposed Total Vertical Depth: 6925' OCT 30 2023

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28079' WV Department of
Environmental Protection

11) Proposed Horizontal Leg Length: 20273'

12) Approximate Fresh Water Strata Depths: 105', 273', 302'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-5338, 0218)

14) Approximate Saltwater Depths: 1028' (Nearest offset well data, 47-041-1673)

15) Approximate Coal Seam Depths: 420', 525' 830' (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-10-29-20

WW-6B
(04/15)

API NO. **4704105707**
 OPERATOR WELL NO. Flesher 1212 N-4H
 Well Pad Name: Flesher 1212

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	1000'	1000'	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	28078'	28078'	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	Least 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Least 40% excess, Tail 0% excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.18, tail yield 1.04
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

Berry Stalls 10-29-20

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OCT 30 2020

WV Department of
Environmental Protection

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6925 feet. Drill horizontal leg to estimated 20,274 lateral length, 28,079 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): 33.17 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.84 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.
Freshwater/Coal - centralized every 3 joints to surface.
Intermediate 1 - Base Spacing on every joint, will also be running ACP for toolstring string zone.
Intermediate 2 - Base Spacing on last 2 joints then every third joint to 100' from surface.
Production - Run 1 spiral centralizer every 5 joints from the top of the casing to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the casing.

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

Conductor - HFA, Casing to be drilled in w/ Dual Rotary Rig
Fresh Water/Coal - 15.8 ppg PNE-1 + 3% base CaCl₂ 40% Excess Yield = 1.5L CTS
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% base CaCl₂ 40% Excess Yield: 15.8 ppg PNE-1 + 2.5% base CaCl₂ 40% Excess. CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% base CaCl₂ 40% Excess. Tail: 15.8 ppg PNE-1 + 2.5% base CaCl₂ 40% Excess. CTS
Production - Lead: 14.5 ppg PDC-PNE-1 + 0.3% base R3 + 1% base ED1 + 0.75 gal/bbl FPI12L + 0.5% base MPAT10. Tail: 14.8 ppg PNE-1 + 0.35% base R3 + 0.75 gal/bbl FPI12L + 50% base ASDA1 + 0.5% base MPAT10 20% Excess. Lead Yield=1.78, Tail Yield=1.04, CTS

25) Proposed borehole conditioning procedures:

Conductor - Excess the hole to clean at TD.
Fresh Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.
Intermediate 1 - Once casing is at setting depth, circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate 2 - Once casing is at setting depth, circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x before co, or well returns and pump pressure indicates the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

Flesher 1212 Well Pad (N-1H, N-2H, N-3H, N-4H, S-5H, S-6H, S-7H, S-8H)

Cement Additives

Material Name	Material Type	Material Description	CAS #																		
Premium NE-1	Portland Cement	Premium NE-1 is a portland cement with early compressive strength properties.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Portland cement</td> <td>90 - 100</td> <td>65997-15-1</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> <tr> <td>Magnesium oxide</td> <td>1 - 5</td> <td>1309-48-4</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>0.1 - 1</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Portland cement	90 - 100	65997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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			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									
			Ingredient name	%	CAS number																
bentonite	90 - 100	1302-78-9																			
Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7																			
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												
			Ingredient name	%	CAS number																
Calcium chloride	90 - 100	10043-52-4																			
Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
			Ingredient name	%	CAS number																
No hazardous ingredient																					
FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
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Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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MPA-170	Gas Migration	Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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Poz (Fly Ash)	Base	A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7	Calcium oxide	1 - 5	1305-78-8									
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R-3	Retarder	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Organic acid salt</td> <td>40 - 50</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
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S-5	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>2-Butoxyethanol</td> <td>20 - 30</td> <td>111-76-2</td> </tr> <tr> <td>Proprietary surfactant</td> <td>10 - 20</td> <td>Trade secret.</td> </tr> <tr> <td>D-Glucopyranose, oligomeric, C10-16-alkyl glycosides</td> <td>5 - 10</td> <td>110615-47-9</td> </tr> <tr> <td>Alkylarylsulfonate amine salt</td> <td>1 - 5</td> <td>Trade secret.</td> </tr> <tr> <td>Polyoxyalkylenes</td> <td>0.1 - 1</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	2-Butoxyethanol	20 - 30	111-76-2	Proprietary surfactant	10 - 20	Trade secret.	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110615-47-9	Alkylarylsulfonate amine salt	1 - 5	Trade secret.	Polyoxyalkylenes	0.1 - 1	Trade secret.
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**1212 N-4H
Marcellus Shale Horizontal
Lewis County, WV**

1212 N-4H SHL

14206116.16N 1785747.12E

Ground Elevation

1332.2'

1212 N-4H LP

14207251.39N 1787391.38E

Azm

340.98°

1212 N-4H BHL

14226411.28N 1780786.63E

WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wall thickness
	26"	20" 94# J-55	Fresh Water	0	105, 273, 302	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi
			Kittanning Coal	987	992					
			Fresh Water Protection	0	1000					
	17.5"	13-3/8" 68# J-55 BTC	Big Lime	1548	1613	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on every joint <i>*will also be running ACP for isolating storage zone*</i>	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480" wall thickness Burst=3450 psi
			Injun / Gantz (Storage)	1613 / 1898	1718 / 1958					
			Intermediate 1	0	2100					
			Fifty / Thirty Foot	2008 / 2105	2033 / 2128					
	12.25"	9-5/8" 40# J-55 BTC	Gordon Stray / Gordon	2128 / 2198	2198 / 2268	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=3950 psi
			5th Sand	2374	2416					
			Bayard Sand	2450	2480					
			Intermediate 2	0	2900					
			Speechley	3078	3089					
	8.5" Vertical	5-1/2" 23# P-110 HP CDC HTQ	Balltown	3278	3350	AIR / 9.0ppg SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions
			Benson	4370	4382					
			Rhinestreet	6256	6445					
	8.5" Curve		Cashaqua	6445	6526	11.5ppg- 12.5ppg SOBM		Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.		
			Middlesex	6526	6625					
			West River	6625	6660					
			Burkett	6660	6751					
Tully Limestone			6751	6815						
Hamilton			6815	6753						
Marcellus			6845	6927						
8.5" Lateral	TMD / TVD (Production)	28078	6925	11.5ppg- 12.5ppg SOBM						
	Onondaga	6927								

LP @ 6925' TVD / 7805' MD

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

+/-20273' ft Lateral

TD @ +/-6925' TVD
+/-28078' MD

X=centralizers

4704105707

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

FLESHER 1212 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H & N-4H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703301574	Harrison	Beeghley	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2625	ACTIVE	39.152970	-80.508015
2	4703302719	Harrison	Coffindaaffer, J	Tenmile Land LLC	Elk	Gas	5512	ACTIVE	39.161387	-80.512301
3	4703303090	Harrison	C C Tallman/M P Davis 1	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2385	PLUGGED	39.149500	-80.502237
4	4703303166	Harrison	R Stanley	Dominion Energy Transmission, Inc.	Alexander	Gas	5273	ACTIVE	39.150573	-80.510360
5	4703303236	Harrison	William L/S Coffindaaffer	Alliance Petroleum Co., LLC	Greenland Gap Fm	Gas	5200	ACTIVE	39.163430	-80.506373
6	4703303272	Harrison	William L Coffindaaffer	Alliance Petroleum Co., LLC	Greenland Gap Fm	Gas	5000	ACTIVE	39.166933	-80.502915
7	4703303298	Harrison	Loxie V McLung	Alliance Petroleum Co., LLC	Balltown	Oil and Gas	3650	ACTIVE	39.159262	-80.507375
8	4703303299	Harrison	Sherry D Baldwin etal	Alliance Petroleum Co., LLC	Greenland Gap Fm	Gas	5100	ACTIVE	39.162227	-80.500606
9	4703303858	Harrison	Catherine C Price	Diversified Resources, Inc.	not available	not available	-	Not Drilled	39.157331	-80.500374
10	4703304114	Harrison	Catherine C Price 1	Enervest Operating, LLC	Greenland Gap Fm	Gas	4800	ACTIVE	39.157941	-80.499754
11	4703304758	Harrison	Geraldine C Dickenson Est	Dominion Energy Transmission, Inc.	Benson	Gas	4950	ACTIVE	39.171734	-80.505778
12	4703305291	Harrison	William R Dallas	Consol Gas Company	not available	not available	-	Not Drilled	39.150104	-80.497282
13	4703305737	Harrison	William R Dallas	Dominion Energy Transmission, Inc.	Alexander	Gas	4950	ACTIVE	39.150090	-80.497450
14	4704100127	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	Fifth	Gas	2380	PLUGGED	39.121173	-80.498140
15	4704100213	Lewis	W T Garton	Dominion Energy Transmission, Inc.	Gantz	Storage	1850	ACTIVE	39.127276	-80.488549
16	4704100214	Lewis	Geo Norris	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2275	ACTIVE	39.115382	-80.490758
17	4704100217	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	Gantz	Storage	1890	ACTIVE	39.124393	-80.489885
18	4704100221	Lewis	F L Post 2	Dominion Energy Transmission, Inc.	Gantz	Storage	1970	ACTIVE	39.132930	-80.486946
19	4704100311	Lewis	A Hughes	Dominion Energy Transmission, Inc.	Up Devonian	Storage	2199	ACTIVE	39.144083	-80.502504
20	4704100312	Lewis	W T Garton	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2263	PLUGGED	39.126053	-80.486425
21	4704100314	Lewis	F L Post	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2397	ACTIVE	39.134769	-80.485998
22	4704100322	Lewis	A H Hughes	UNKNOWN	Hampshire Grp	Gas	2601	PLUGGED	39.140364	-80.507823
23	4704100324	Lewis	Clark Gaston	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2106	ACTIVE	39.134155	-80.495652
24	4704100325	Lewis	George Norris	Hope Natural Gas Company	Hampshire Grp	Gas	2228	PLUGGED	39.120161	-80.492216
25	4704100328	Lewis	H J Hughes	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2401	ACTIVE	39.138624	-80.498743
26	4704100363	Lewis	N J Oldaker	UNKNOWN	Up Devonian	Storage	1905	PLUGGED	39.139006	-80.489544
27	4704101467	Lewis	H J Hughes	UNKNOWN	Fifth	Storage	2407	PLUGGED	39.143186	-80.493922
28	4704101494	Lewis	S R Hall	Dominion Energy Transmission, Inc.	Fifth	Storage	2453	ACTIVE	39.122439	-80.484011
29	4704101535	Lewis	Virginia Hughes	Dominion Energy Transmission, Inc.	Fifth	Dry	2576	PLUGGED	39.146842	-80.505298
30	4704101673	Lewis	Cecil I Dempsey	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4509	ACTIVE	39.118627	-80.488538
31	4704101892	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	Benson	Storage	4470	ACTIVE	39.120917	-80.498325
32	4704102625	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.120873	-80.492026
33	4704102626	Lewis	A R Frashuer	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.128328	-80.494641

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34	4704102634	Lewis	T S Allman	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.126443	-80.484399
35	4704102639	Lewis	H L Frashuer	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.133693	-80.497995
36	4704102648	Lewis	Edwin Gaston	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.126152	-80.497246
37	4704102854	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.115783	-80.496273
38	4704103299	Lewis	Susan Hall	Dominion Energy Transmission, Inc.	not available	not available	2368	PLUGGED	39.122284	-80.485081
39	4704103948	Lewis	John Mann	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4575	ACTIVE	39.128306	-80.493609
40	4704104550	Lewis	R E/Terry Brincefield	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4618	ACTIVE	39.138691	-80.492300
41										
								YELLOW DENOTES WELL WITH TVD > 4,500'		GREEN DENOTES SURVEYED WELLS

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

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

4704105707

March 4, 2020

Dominion Energy Transmission
925 White Oaks Blvd
Bridgeport, WV 26330

RE: Area of Review – Flesher 1212 Well Pad (N-1H to N-4H, S-5H – S8H)
Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, is developing a Marcellus pad (Flesher 1212 pad) located in Lewis County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6900' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Flesher 1212 Pad during the second quarter of 2021. We have identified conventional natural gas wells operated by your company within 1500' of one of the newly planned laterals. A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgenergyllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Diane White

Enclosure

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

4704105707

March 4, 2020

CONSOL Gas Company
1000 CONSOL Energy Drive
Cannonsburg, PA 16317

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

4704105707

March 4, 2020

Enervest Operating Company
300 Capitol Street, Suite 200
Charleston, WV 25301

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

4704105707

March 4, 2020

Alliance Petroleum Company
101 McQuiston Drive
Jackson Center, PA 16133

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

4704105707

March 4, 2020

Tenmile Land, LLC
109 Platinum Drive, Suite 1
Bridgeport, WV 26330

RE: Area of Review – Flesher 1212 Well Pad (N-1H to N-4H, S-5H – S8H)
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March 4, 2020

Hope Natural Gas Company
Bank One Center, W Third Street
Clarksburg, WV 26301

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Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 6900' TVD) and existing conventional natural gas wells.

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3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or dwhite@hgeneryllc.com. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Diane White

Enclosure

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Office of Oil and Gas
SEP 01 2020
WV Department of
Environmental Protection



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

4704105707

March 4, 2020

Dominion Energy Transmission
925 White Oaks Blvd
Bridgeport, WV 26330

RE: Area of Review – Flesher 1212 Well Pad (N-1H to N-4H, S-5H – S8H)
Hydraulic Fracturing Notice

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

4704105707

March 4, 2020

CONSOL Gas Company
1000 CONSOL Energy Drive
Cannonsburg, PA 16317

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Diane White

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

4704105707

March 4, 2020

Enervest Operating Company
300 Capitol Street, Suite 200
Charleston, WV 25301

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

4704105707

March 4, 2020

Alliance Petroleum Company
101 McQuiston Drive
Jackson Center, PA 16133

RE: Area of Review – Flesher 1212 Well Pad (N-1H to N-4H, S-5H – S8H)
Hydraulic Fracturing Notice

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

4704105707

March 4, 2020

Tenmile Land, LLC
109 Platinum Drive, Suite 1
Bridgeport, WV 26330

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

4704105707

March 4, 2020

Hope Natural Gas Company
Bank One Center, W Third Street
Clarksburg, WV 26301

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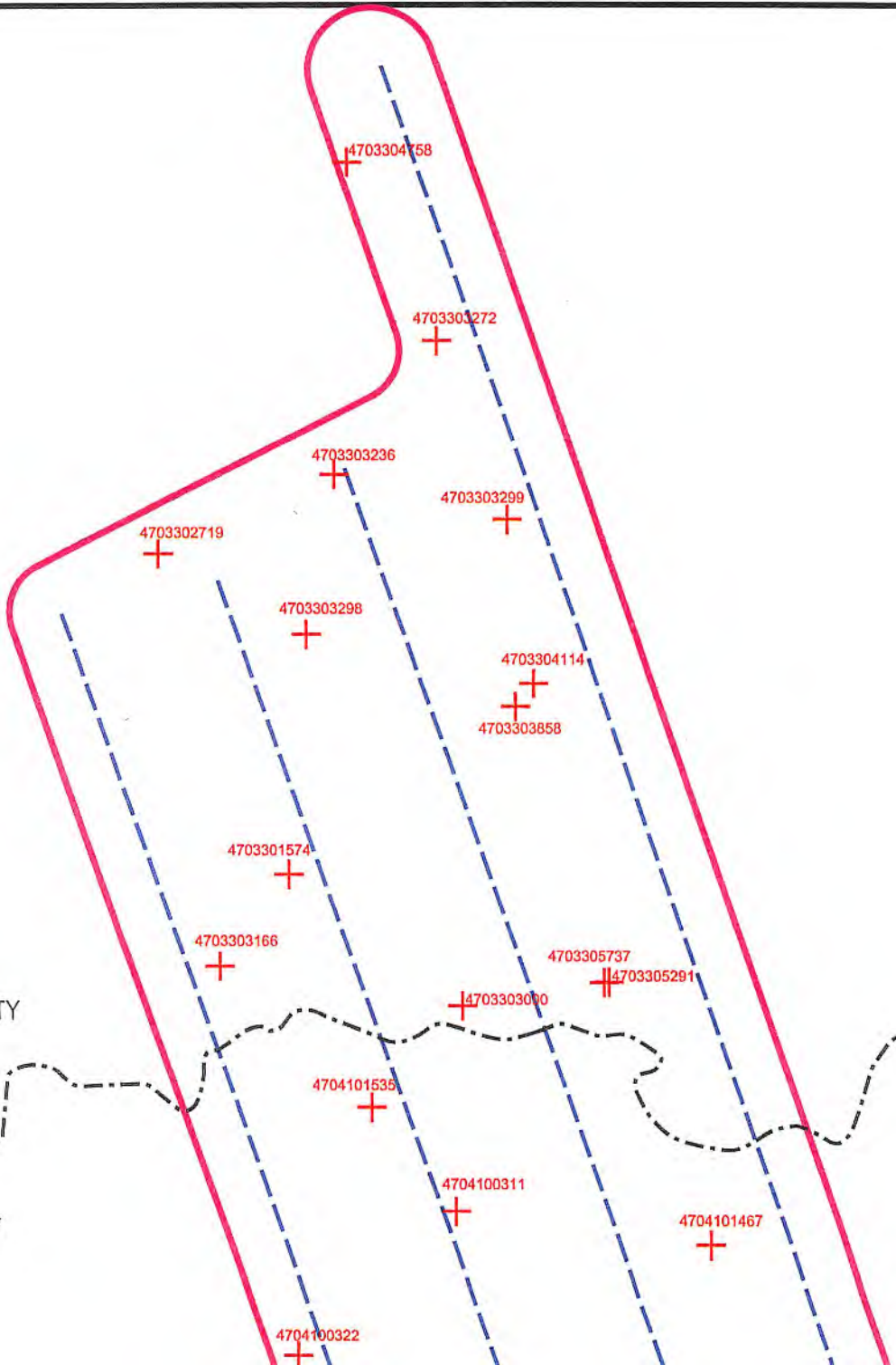
Diane White

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HARRISON COUNTY

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LEWIS COUNTY

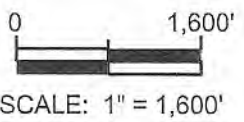
4704105707

Well Key

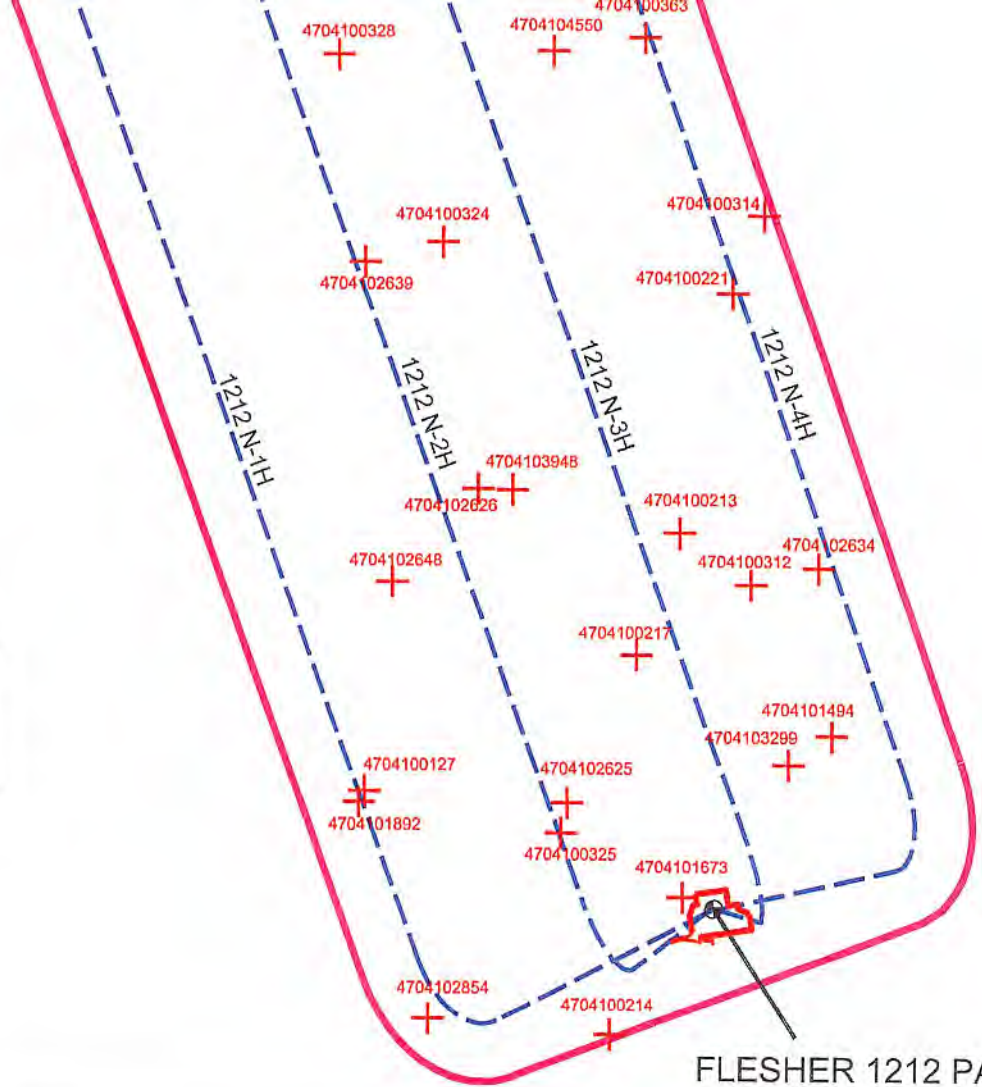
4703302719 + Conventional Vertical Well

--- Proposed Horizontal Marcellus Well

See Accompanying Spreadsheets



DATA SOURCES
WVGES Data Set - 2017; WVDEP Website



FLESHER 1212 PAD

Area of Review for:

FLESHER 1212 NORTH UNIT

Proposed 12121 N-1H Proposed 1212 N-2H
Proposed 12121 N-3H Proposed 1212 N-4H

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



3/3/2020

WW-9
(4/16)

4704105707
API Number 47 - _____
Operator's Well No. Flesher 1212 N-4H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907

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

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

-Landfill or offsite name/permit number? See Attached

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

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

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

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

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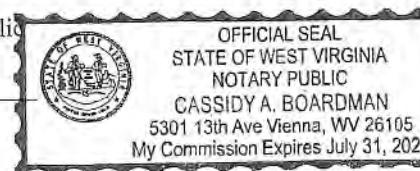
WV Department of
Environmental Protection

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

Cassidy A. Boardman

Notary Public

My commission expires 7/31/2022



4704105707

Form WW-9

Operator's Well No. Flesher 1212 N-4H

HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 32.75 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: Barry Stollings

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

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

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WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 8-24-20

Field Reviewed? Yes No

4704105707

Cuttings Disposal/Site Water

Cuttings - Haul off Company:

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

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

Environmental Coordination Services & Recycling (ECS&R)
8287 US Highway 18
Cochran, PA 16814
814-425-7778

Disposal Locations:

Apex Environmental, LLC Permit # 06-08488
111 County Road 78
Amsterdam, OH 43908
740-548-4889

Westmoreland Waste, LLC Permit # 100277
1111 Conner Lane
Belle Vernon, PA 15012
724-829-7694

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

Max Environmental Technologies, Inc. Facility Permit # PAD004898146 / 801071
288 Max Lane
Yukon, PA 25968
724-722-8500

Max Environmental Technologies, Inc. Facility Permit # PAD05087072 / 801359
200 Max Drive
Bulger, PA 15018
724-796-1571

Waste Management Kelly Run Permit # 100668
1801 Park Side Drive
Elizabeth, PA 15027
412-884-7569

Waste Management South Hills (Arnoni) Permit # 100592
3100 Hill Road
Liberty, PA 15129
724-848-7018
412-884-7569

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

Waste Management Meadowfill Permit # 1082
1488 Dawson Drive
Bridgeport, WV 26380

Brooke County Landfill Permit # SWR-109-87 / WV 0109029
Rd 2 Box 410
Collers, WV 26035
304-748-0014

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WV Department
Environmental Protection

4704105707

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109186
Rt 1 Box 158A
New Martinsville, WV 26035
804-455-3800

Energy Solutions, LLC Permit # UT 2800249
428 West 800 South
Suite 200
Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-78006-L24
1560 Bear Creek Road
Oak Ridge, TN 37830

Northern A-J Environmental Services Permit ID MIP020906814
8947 US 121 North, PO Box 1080
Kalkaska, MI 49646
261-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720488
3780 State Route 7
New Waterford, OH 44445
880-892-0184

Nabors Completion & Production Services Co.
PO Box 876682
Dallas, TX 75397-6682

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

Nuverra Environmental Solutions
11842 Veterans Memorial Highway
Masontown, WV 26542

Mustang Oilfield Services LLC
PO Box 788
St. Clairsville, OH 43950

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

Disposal Locations:

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

Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20758
8065 Arrel-Smith Road
Lowelville, OH 44486
880-586-6825

Adams #1 (Buckeye Brine, LLC)
Permit # 84-031-2-7177
28988 Airport Road
Coshocott, OH 43812
740-575-4484
512-478-6545

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

Force, Inc.
1880 Rte. 286 Hwy. E, Suite 308
Indiana, PA 15701

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

Equipment Transport
1 Tyler Court
Carlisle, PA 17015

Myers Well Service, -----
2001 Ballpark Court
Export, PA 15622

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

Nichols 1-A (SWIW #18)
Permit # 8862
300 Cherrington Pkwy, Suite 200
Coraopolis, PA 15108
412-829-7275

Grosella (SWIW #84)
Permit # 4096
Rt. 88
Garrettsville, OH
718-275-4816

Kemble 1-D Well
Permit # 8780
7575 East Pike
Norwich, Oh 43767
614-648-8898
740-786-6485

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SEP 01 2020

WV Department of
Environmental Protection

4704105707

Adams #2 (Buckeye Brine, LLC)
2205 Westover Road
Austin Tx 78708
Permit # 84-081-2-7178
740-578-4454
612-478-6545

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

Mozena #1 Well (SWIW # 18)
Permit # 84-157-2-8511-00-00
8857 E. State Street
Newcomerstown, OH 43882
740-768-3968

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

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

Dudley #1 UIC (SWIW #1)
Permit # 84-121-2-2458-00-00
Select Energy Services, LLC
7684 S. Pleasants Hwy
St. Marys, WV 26170
804-668-2852

OH UIC #1, Buckeye UIC Barnesville 1 & 2
CNX Gas Company, LLC
1000 Conoco Energy Drive
Permit # 84-018-2-0609-00-00
Permit # 84-018-2-0614-00-00
804-828-6868

US Steale 11885
Permit # 47-001-00561
200 Evergreen Drive
Waynesburg, PA 15780
804-828-6868

Chapin #7 UIC (SWIW #7)
Permit # 84-082-2-4187-00-00
Elkhead Gas & Oil Company
12188 Marne Rd. NE
Newark, OH 43055
740-768-3968

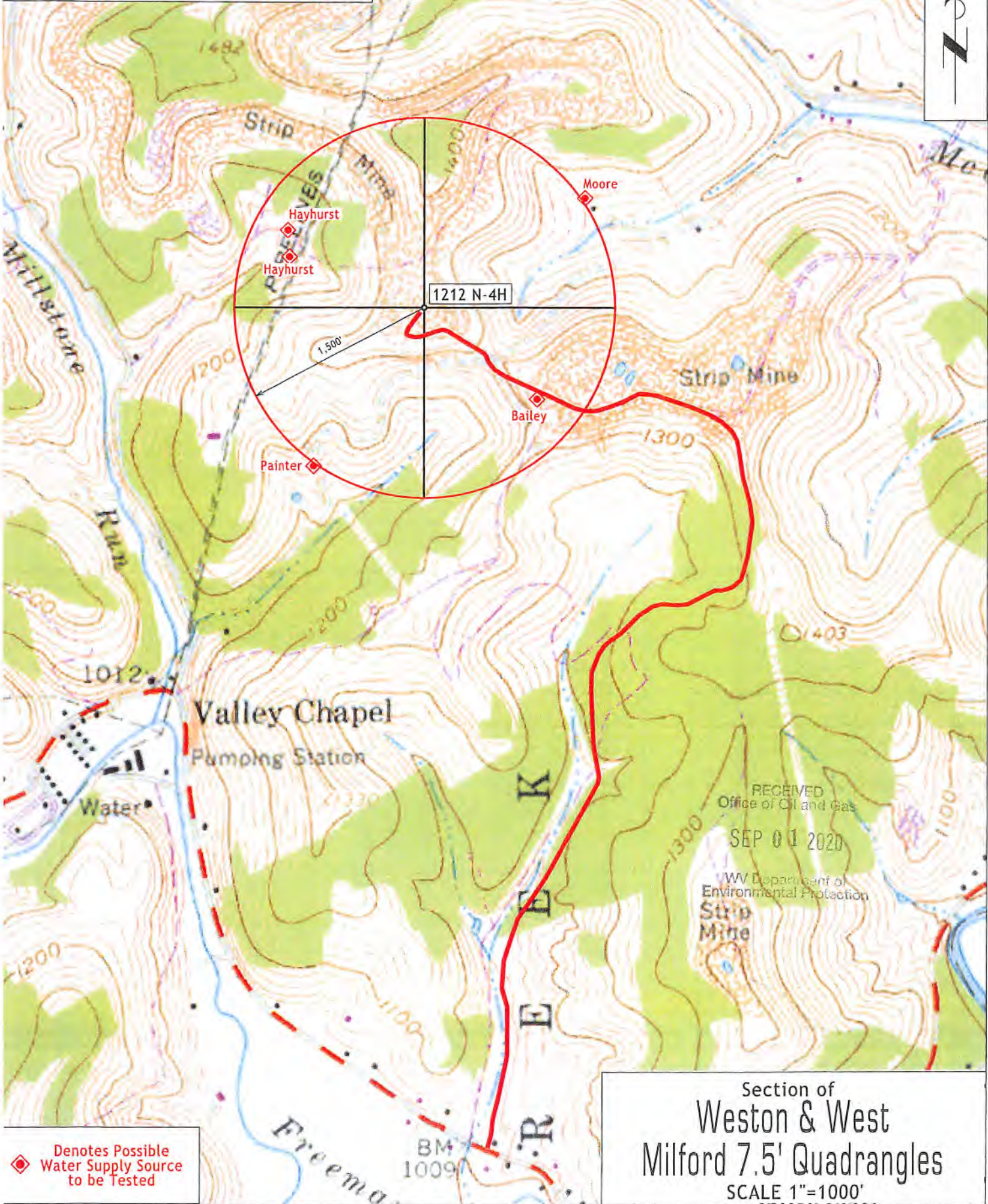
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WV Department of
Environmental Protection

SUBJECT WELL
Flesher 1212 N-4H

McCann River 04105707



◆ Denotes Possible Water Supply Source to be Tested

Section of
Weston & West
Milford 7.5' Quadrangles
SCALE 1"=1000'

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SEP 01 2020
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HG Energy II Appalachia, LLC

Site Safety Plan

Flesher 1212 Well Pad
630 Chapel Road Weston
Lewis County, WV 26378

August 2020: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

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Office of Oil and Gas

SEP 01 2020

WV Department of
Environmental Protection

Signed by Barry Stillings

8-24-20


Site Safety Plan, Flesher 1212 Well Pad

Preface

REVISION RECORD					
Revision Date	Description of Change	Page(s) Changed	Document Author	Document Approver	Approved by Office

DISTRIBUTION		
Copy Number	Plan Holder	Location
1	Onsite Copy	Operations Trailer
2	State of West Virginia Department of Environmental Protection (Permit Submission)	1 (304) 926-0499 601 57th Street Charleston, WV 25304
3	Lewis County LEPC Copy of application will be hand delivered or sent to OEM via Certified mail.	201 Orchard St Weston, WV 26452 Phone: 304-369-6579 LCOEM@LewisOEM.com

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WV Department of
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Benny Stolley 8-24-20


HG Energy II Appalachia, LLC
Well No. Flesher 1212 N-4H

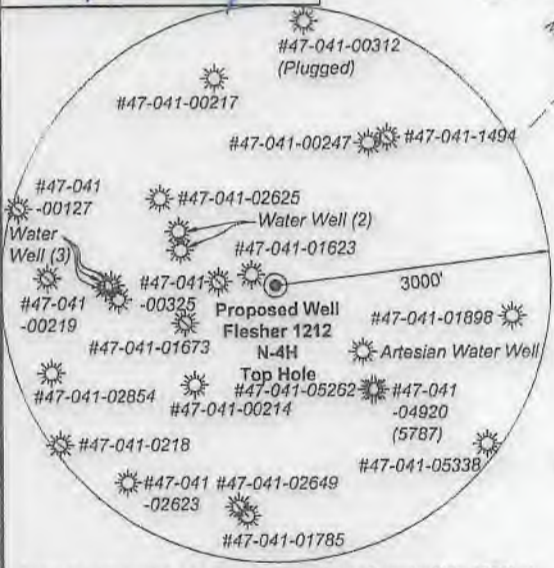
Page 1 of 3



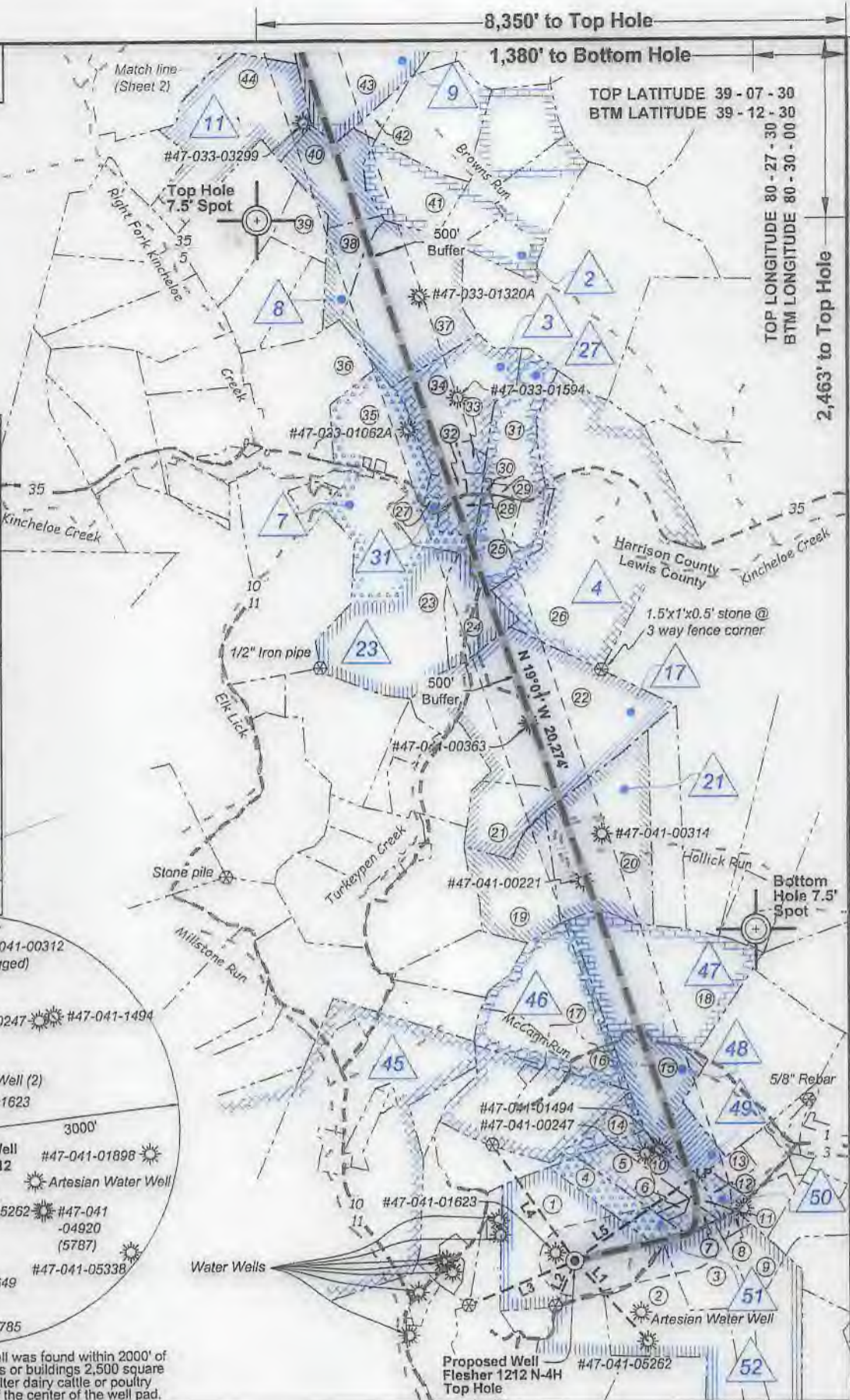
SEAL

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

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



Note: 5 water wells and 1 artesian well 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: 156-36-12-U-F-19
DRAWING NO: 1212 N-4H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: July 28 2020
OPERATOR'S WELL NO. Flesher 1212 N-4H
API WELL NO
47 - 041 - 05107
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: H.G. Energy II Appalachia, LLC
ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: ACREAGE: 210.00

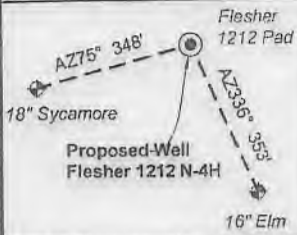
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 6,925' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,079' MD

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

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

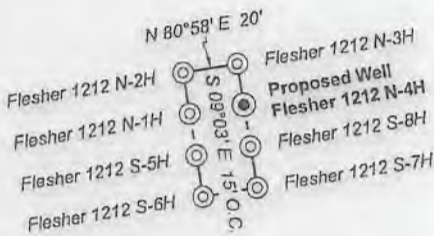


Well Location References
Not to Scale



Tag	Bearing	Dist.	Description
L1	N 42°06' W	1,538.6'	#47-041-05262
L2	N 23°28' E	689.6'	1/2" Rebar
L3	N 67°41' E	1,622.2'	1" Iron pipe
L4	S 35°04' E	2,003.6'	5/8" Rebar
L5	N 55°23' E	1,998.1'	Landing point

Wellhead Layout (NTS)



Legend

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

Notes: Well No. Flesher 1212 N-4H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'05.66" Latitude: 39°10'26.60"
Longitude: 80°29'15.98" Longitude: 80°30'17.53"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,330,032.866m N: 4,336,218.831m
E: 544,296.810m E: 542,784.850m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
references are based upon the magnetic meridian.



Notes:
Well No. Flesher 1212 N-4H
UTM NAD 1983 (USSF)
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N: 14,206,116.16'
E: 1,785,747.12'
Landing Point Coordinates
N: 14,207,251.39'
E: 1,787,391.38'
Bottom Hole Coordinates
N: 14,226,411.28'
E: 1,780,786.63'

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7	A.C. Thrash, et al
8	W.L. Oldaker, et al
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MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: July 28 2020
OPERATOR'S WELL NO. Flesher 1212 N-4H
API WELL NO
47 - 041 - 05107
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: H.G. Energy II Appalachia, LLC
ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: ACREAGE: 210.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 6,925' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,079' 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



Lewis Co. - Freeman Creek Dist.

No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 47	HG Energy II Appalachia, LLC	753 / 453	70.00
2	6C / 45	Fred A. Bailey	W25 / 263	48.00
3	6C / 46	Fred A. Bailey	W25 / 263	47.00
4	6C / 48	Mary Ellen Nicholson	461 / 121	15.00
5	6C / 49	Mary Ellen Nicholson	461 / 121	12.90
6	6C / 52.1	Robert D. & Mary E. Nicholson	512 / 85	1.37
7	6C / 52	Kenneth B. & Lydia M. Burroughs	420 / 196	3.70
8	6C / 54	Kenneth B. & Lydia M. Burroughs	336 / 47	2.00
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16	6C / 60	Bryan Todd Beam	617 / 6	6.78
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22	6B / 37	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	96.14
23	6B / 22	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	99.46
24	6B / 23	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	21.75
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28	443 / 26	Stephen C. & Marye Stalnaker	1312 / 1253	5.80
29	443 / 12	Joseph G. Davis III	1353 / 935	1.04
30	443 / 12.1	Donna L. Davis	F104 / 1	0.63
31	443 / 12.2	Donna L. Davis	F104 / 1	27.92
32	443 / 26.1	Joseph A. & Ashley E. Sayres	1521 / 638	4.01
33	443 / 11.1	Jason S. & Christine L. Davis	1414 / 141	2.92
34	443 / 11	Donna L. Davis	1375 / 729	51.08
35	443 / 22.1	Edith J. Dallas	1314 / 1248	30.61
36	443 / 8	William R. & Edith J. Dallas	1314 / 1248	63.40
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Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: July 28 2020
OPERATOR'S WELL NO. Flesher 1212 N-4H
API WELL NO
47 - 041 - 05707
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek

Btm: Big Isaac
QUADRANGLE: Top: Weston

DISTRICT: Freemans Creek

COUNTY: Lewis

SURFACE OWNER: H.G. Energy II Appalachia, LLC

ACREAGE: 70.00

ROYALTY OWNER: W.D. Hitt, et al, et al

LEASE NO: ACREAGE: 210.00

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: 28,079' MD 6,925' TVD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

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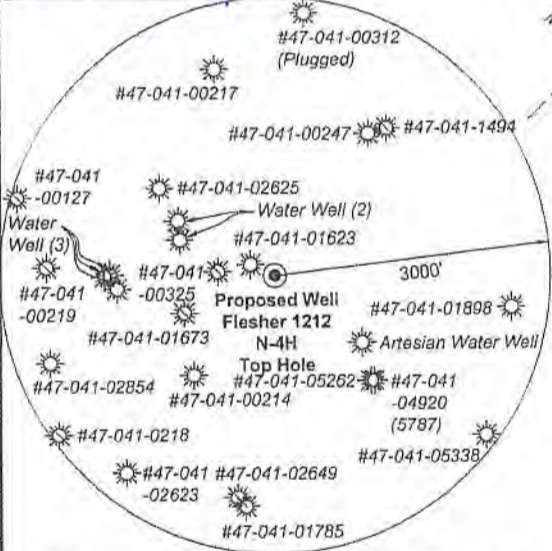
HG Energy II Appalachia, LLC
Well No. Fleisher 1212 N-4H

Page 1 of 3

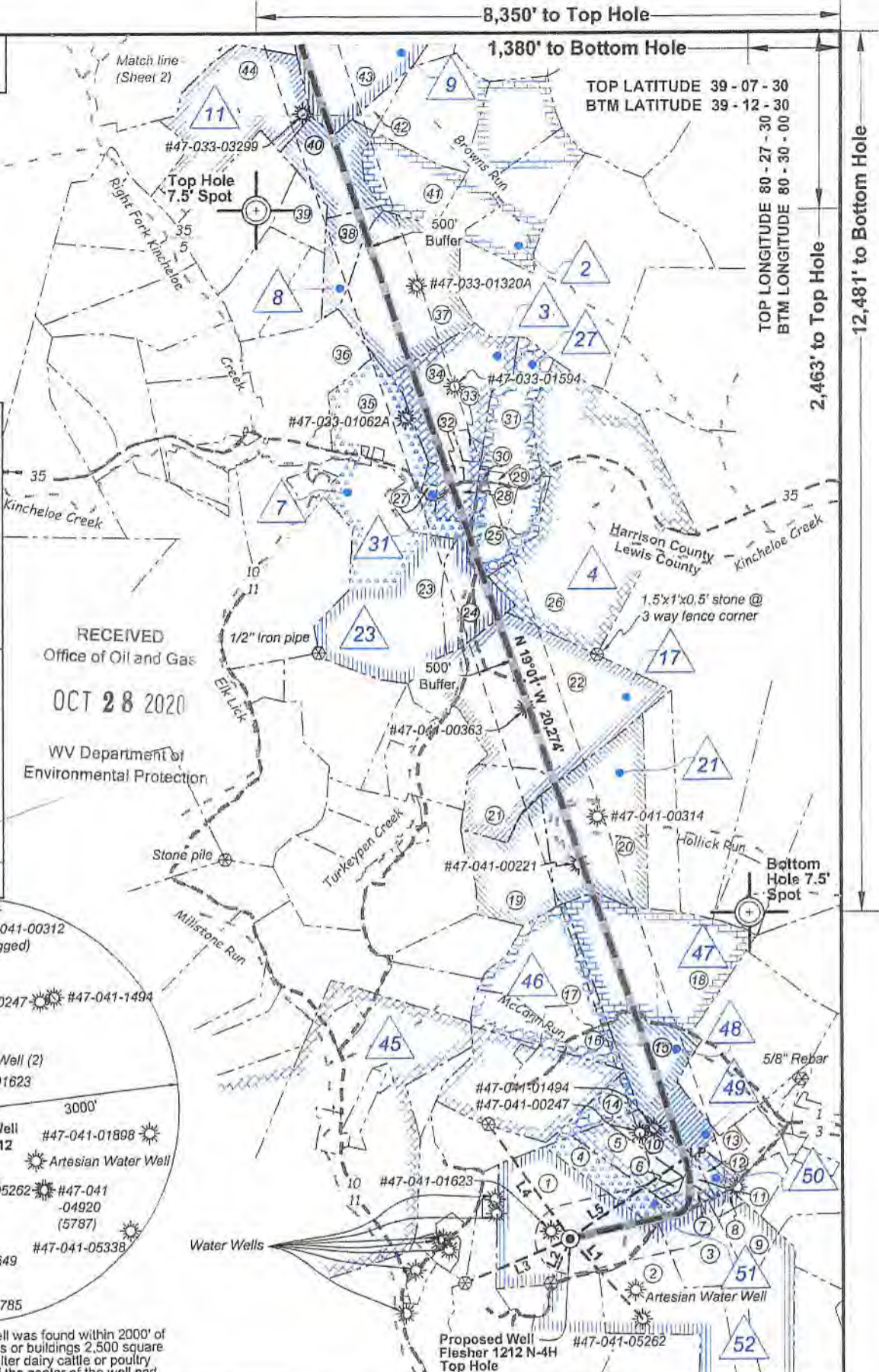


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



Note: 5 water wells and 1 artesian well 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.



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WV Department of
Environmental Protection

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STATE OF WEST VIRGINIA
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OIL AND GAS DIVISION

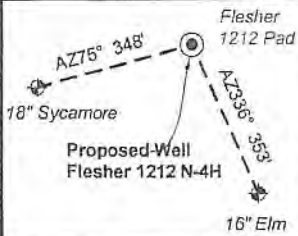
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47 - 041 - 05707
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek
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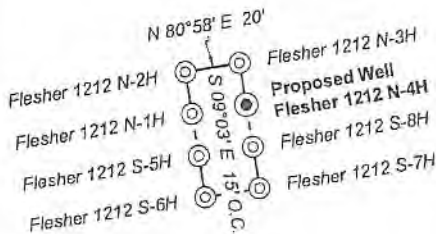


Well Location References
Not to Scale



Tag	Bearing	Dist.	Description
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OIL AND GAS DIVISION

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API WELL NO
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STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek

QUADRANGLE: Btm: Big Isaac
Top: Weston

DISTRICT: Freemans Creek

COUNTY: Lewis

SURFACE OWNER: H.G. Energy II Appalachia, LLC

ACREAGE: 70.00

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DESIGNATED AGENT: Diane C. White

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Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

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

See Attached Sheets

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

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

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

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

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

**HG Energy II Appalachia, LLC
Flesher 1212 N-4H Lease Chains**

1212N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
52	FK053270	03-006C-0045-0000 03-006C-0046-0000 03-006C-0053-0000 03-006C-0054-0000 03-007C-0007-0000 p/o 03-006C-0043-0000 p/o 03-006C-0043-0001 p/o 03-006C-0047-0000	Q100675000	W. D. HITT AND ALDA HITT, HIS WIFE; J. C. HITT AND DORA HITT, HIS WIFE; L.A. MCCARTY AND F. R. MCCARTY, HER HUSBAND; GEORGE W. NEELY AND GRACE M. NEELY, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	524
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
51	FK064389	p/o 03-006C-0047-0000	Q100438000	ALDA V. HITT, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	221	228
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
50	FK059178	03-006C-0048-0000 03-006C-0049-0000 03-006C-0051-0000 03-006C-0051-0001 03-006C-0052-0000 03-006C-0052-0001 03-006C-0055-0000	Q100482000	SUSAN R. HALL, J. W. HALL, ALDA J. HALL AND MARY HALL	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	91
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370
				SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	237
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				GERTRUDE R. ALLMAN, W. A. CHITTUM AND ZURA CHITTUM, HIS WIFE; CLAUDE B. HALL AND META HALL, HIS WIFE; M. O. BROWN, JOHN C. CHITTUM AND MABEL CHITTUM, HIS WIFE; HOMER L. CHITTUM AND JEWEL E. CHITTUM, HIS WIFE; RUBY FOSTER AND H.B. FOSTER, HER HUSBAND; JACK HALL, BLANCH V. FLETCHER, ANNCY M. STALNACKER AND DANIEL D. STALNACKER, HER HUSBAND; JOE HALL AND DOROTHY HALL, HIS WIFE; OVAL L. HALL, JOHN H. HALL AND MARY K. HALL, HIS WIFE; J. A. CHITTUM AND MARY E. CHITTUM, HIS WIFE; ELIZABETH HALL KING, AND EUGENE T. KING, HER HUSBAND; HOMER HALL JR., AND FANNIE MAE HALL, HIS WIFE; PEARL A. ULLOM AND WILLIAM ULLOM SR., HER HUSBAND; ROSE M. HALL, JOHN H. HALL AND RUTH HALL, HIS WIFE; LILLIAN MOON AND BERNARD R. MOON, ER HUSBAND; ALDA V. HITT	HOPE NATURAL GAS COMPANY	STORAGE GRANT	222	74
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139				

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				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
49	FK064827	p/o 03-006C-0062-0000	Q100859000	FLOY RAMSBURG AND HUGH RAMSBURG, HER HUSBAND; GUY ALLMAN, WIDOWER; RUSSELL ALLMAN AND RUTH ALLMAN, HIS WIFE; L. C. ALLMAN AND FLORENCE ALLMAN, HIS WIFE; RAYMOND ALLMAN AND LEO ALLMAN, HIS WIFE; LORA A. BAILEY, WIDOW; GERALDINE HAMMER, SINGLE; AND A. C. ALLMAN AND ORA ALLMAN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	223	129
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
48	FK053236	p/o 03-006B-0045-0000 03-006B-0046-0000	Q100901000	T. S. ALLMAN AND MARY C. ALLMAN, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	140
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
47	FK064485	03-006B-0044-000	Q100858000 FEEHGII0011 FEEHGII0012	W. D. ALLMAN, WIDOWER; S. M. ALLMAN AND CORA B. ALLMAN, HIS WIFE; MAYME A. SMITH AND J. W. SMITH, HER HUSBAND; EARL WIMER, WIDOWER; ZELLA BROWN AND TRUMAN BROWN, HER HUSBAND; BERNICE A. WOODDELL, SINGLE; GUY ALLMAN, WIDOWER; LORA BAILEY, WIDOW; H. R. HAMMER, WIDOWER; FLOY RAMSBURG AND HUGH RAMSBURG, HER HUSBAND; RUSSELL ALLMAN AND RUTH ALLMAN, HIS WIFE; L. C. ALLMAN AND FLORENCE ALLMAN, HIS WIFE; LLOYD W. SMITH AND MARJORIE M. SMITH, HIS WIFE; KATHLEEN C. ALLMAN, WIDOW; R. T. SMITH AND LAVAUGHN SMITH, HIS WIFE; BERNARD M. WOODDELL AND MARY L. WOODDELL, HIS WIFE; RAYMOND ALLMAN AND LEO ALLMAN, HIS WIFE; A. C. ALLMAN AND ORA ALLMAN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	222	15
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499

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				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
21	FK062191	03-006B-0034-0000 03-006B-0043-0000	Q101045000	HENRY L. FRASHEUR AND ICIE FRASHEUR, HIS WIFE; BERTHA J. KELLY AND E. C. KELLY, HER HUSBAND; BERTHA BRINKLEY AND ALLMAN BRINKLEY, HER HUSBAND; MARY KATHERINE KEARNEY AND JAMES KEARNEY, HER HUSBAND; VIRGINIA PLUNKETT, MARRIED AND LIVING SEPARATE AND APART FROM HER HUSBAND, WILLIAM PLUNKETT; HALL POST AND NELLIE D. POST, HIS WIFE; WILLIAM G. POST AND EFFIE POST, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	211	478
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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	139
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
17	FK062224	03-006B-0035-0000 03-006B-0037-0000 p/o 03-006B-0037-0001	Q100501000	HENRY L. FRASHEUR AND ICIE FRASHEUR, HIS WIFE; BERTHA J. KELLY AND E. C. KELLY, HER HUSBAND; MARY POST DAVIS AND EVERETT W. DAVIS, HER HUSBAND; IDA B. OLDAKER, WIDOW; EVELYN MCDONALD AND ROBERT H. MCDONALD, HER HUSBAND; ELMA MCLUNG AND JUNIOR MCLUNG, HER HUSBAND; PARENTHA ROMINE, SINGLE; JAMES H. ROMINE AND MARIE ROMINE, HIS WIFE; NELL ROMINE PEIRCE, WIDOW; LOXIE MCLUNG AND W. D. MCLUNG, HUSBAND; FLODIA B. SMITH AND D. L. SMITH, HER HUSBAND; LUCY A OLDAKER, WIDOW; DORA L/ HOOVER AND JOHN K. HOOVER, HER HUSBAND; WILLIE L. OLDAKER, WIDOW; W. T. FRAHUER AND BERTIE FRASHUER, HIS WIFE; S. E. OLDAKER AND DORA E. OLDAKER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	211	469
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC	CONFIRMATORY DEED	579	155
				DOMINION EXPLORATION & PRODUCTION, INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINON 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	139
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558				
				A. W. DAVIS, A SINGLE MAN	RESERVE GAS COMPANY	NOT LESS THAN 1/8	HARRISON 194 LEWIS 68	269 521
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	HARRISON 508 LEWIS 155	573 202
				WORTHY W. DAVIS AND VIRGINIA C. DAVIS, HIS WIFE; INA G. DAVIS, WIDOW; CALLA BONNELL, WIDOW; EVERETT SAURBOURNE, SINGLE; CHRISTINE QUEEN, WIDOW; CLELLA D. HARKENS AND HAROLD E. HARKENS, HER HUSBAND; BETTY MURPHY, A MARRIED WOMAN, LIVING SEPARATE AND APART FROM HER HUSBAND; WALTER C. DAVIS AND ERNESTINE DAVIS, HIS WIFE; D. W. DAVIS AND GLADYS DAVIS, HIS WIFE; HARRY R. DAVIS AND LILLIAN DAVIS, HIS WIFE; LULU M. SCHAEFFER AND HAROLD P. SCHAEFFER, HER HUSBAND; FRED MONEYPENNY, WIDOWER; H. G. MONEYPENNY AND STELLA M. MONEYPENNY, HIS WIFE; HOWE V. MONEYPENNY AND ROSALIE MONEYPENNY, HIS WIFE; JENNIE C. DAVIS, GUARDIAN OF LINDA LOU DAVIS	HOPE NATURAL GAS COMPANY	STORAGE GRANT	HARRISON 723 LEWIS 223	306 226

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4	FK053272	p/o 20-0443-0028-0000	Q100488000 Q102157001FEE	WV Department of Environmental Protection	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903 LEWIS 294	179 89					
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	HARRISON 1136	250					
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	LEWIS 425	127					
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	51	795					
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	58	362					
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	HARRISON 1522	33					
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	PARTIAL ASSIGNMENT (32%)	LEWIS 672	154					
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	HARRISON 1543	1235					
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	LEWIS 684	57					
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	HARRISON 1576	125					
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	LEWIS 712	848					
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1584	942					
								LEWIS 717	1					
23	FK062057	03-0068-0023-0000 03-0068-0022-0000	Q100500000	WV Department of Environmental Protection	A. C. THRASH AND MARTHA D. THRASHER, HIS WIFE; HOWARD G. HUGHES AND MYRL R. HUGHES, HIS WIFE; FANNIE M. HUGHES; AUDREY H. KEYS AND C. C. KEYS, HER HUSBAND; FODA HUGHES LAYMAN	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	211	114					
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		294	89				
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		425	127				
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		WVSOS					
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		WVSOS					
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT		672	154				
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		684	57				
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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	139				
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		722	170				
					DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE		WVSOS					
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		723	499				
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		734	558				
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		736	220				
									WV Department of Environmental Protection	MRS. MARY ROBINSON, SUSAN H. DAVIS AND A. W. DAVIS, HER HUSBAND	FRED S. RICH	NOT LESS THAN 1/8	HARRISON 119	400
										T. M. BARNSBALL, SOUTHERN OIL COMPANY, FRED S. RISH AND W. S. MOWRIS	RESERVE GAS COMPANY	ASSIGNMENT	LEWIS 40	112
RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	HARRISON 235	432										
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	HARRISON 508	573										
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	LEWIS 155	202										
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	HARRISON 903	179										
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	LEWIS 294	89										
FRED S. RICH	SOUTHERN OIL COMPANY	ASSIGNMENT	HARRISON 1136	250										
SOUTHERN OIL COMPANY	PITTSBURG OIL AND GAS COMPANY	DEED	LEWIS 425	127										
PITTSBURG OIL AND GAS COMPANY	OHIO-WESTVIRGINIA OIL AND GAS CO.	DEED	51	795										
			58	362										
			HARRISON 132	326										
			HARRISON 453	66										
			HARRISON 687	488										

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27	FK052820	20-0443-0012-0000 20-0443-0012-0001 20-0443-0012-0002 20-0443-0027-0001	Q100762000	WV Department of Environmental Protection	OHIO-WEST VIRGINIA OIL AND GAS COMPANY	CNG PRODUCING COMPANY	ASSIGNMENT	1126 LEWIS 130	415 391
					CNG PRODUCING COMPANY	CNG DEVELOPMENT COMPANY	ASSIGNMENT	1129	1055
					CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION, INC	MERGER/NAME CHANGE	58	366
					DOMINION EXPLORATION & PRODUCTION, INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	HARRISON 1457	978
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1522 LEWIS 672	33 154
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	HARRISON 1543 LEWIS 684	1235 57
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	PARTIAL ASSIGNMENT (32%)	HARRISON 1576 LEWIS 712	125 848
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	HARRISON 1584 LEWIS 717	942 1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	HARRISON 1600 LEWIS 722	660 139
					NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	ASSIGNMENT MERGER/NAME CHANGE	HARRISON 1600 WVSOS	692
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1601 LEWIS 723	581 499
					DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	HARRISON 1621 LEWIS 734 736	962 558 220
					C. C. ASH, ET AL	RESERVE GAS COMPANY	NOT LESS THAN 1/8	179	399
					3	FK052923	20-0443-0011-0000 20-0443-0011-0001 20-0443-0026-0000 20-0443-0026-0001	Q100476000 FEEHGII0069	WV Department of Environmental Protection
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179					
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250					
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795					
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362					
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33					
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235					
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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	660					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581					
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS						
DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	1621 736	1295 220					
31	FK064202	20-0443-0024-0000	Q100854000	WV Department of Environmental Protection					
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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	660
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
					DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	1621 1637	1295 1081

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7	FK061786	20-0443-0021-0000 20-0443-0022-0000 20-0443-0022-0001 20-0443-0023-0000 20-0443-0025-0000 20-0443-0030-0000 p/o 03-0068-0022-0000	Q100691000	ETHEL V. THRASH, HIS WIFE; GERTIE LAWSON AND P. E. LAWSON, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	696	252
							LEWIS 210	40
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	HARRISON 903	179
							LEWIS 294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	HARRISON 1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	LEWIS 425	127
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	51	795
							58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1522	33
							LEWIS 672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	HARRISON 1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	PARTIAL ASSIGNMENT (32%)	LEWIS 684	57
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1576	125
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	1600	660
			WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1601	581				
			LEWIS 723	499				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1621	962				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	LEWIS 734	558				
			736	220				
8	FK066061 FEFHGII0072	20-0423-0015-0000 20-0423-0025-0000 20-0423-0026-0000	Q100727000 Q10212001-10	WILLIE L. OLDAKER, WIDOW; LUCY A. OLDAKER, WIDOW; DORA L. HOOVER AND JOHN K. HOOVER, HER HUSBAND; DORA L. HOOVER, GUARDIAN OF JAMES H. OLDAKER; NELL ROMINE PIERCE, WIDOW; PORTHENA ROMINE, SINGLE; JAMES H. ROMINE AND MARIE ROMINE, HIS WIFE; EVELYN MCDONALD AND ROBERT H. MCDONALD, HER HUSBAND; LOXIE V. MCCLUNG AND WILBERT MCCLUNG, HER HUSBAND; ELMA F. MCCLUNG AND JUNIOR MCCLUNG, HER HUSBAND; FLODIA B. SMITH AND D. L. SMITH, HER HUSBAND; S. E. OLDAKER AND DORA D. OLDAKER, HIS WIFE; W. T. FRASHURE AND BERTIE FRASHURE, HIS WIFE; ICIE FRASHUER, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	756	136
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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	660
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				2	FK066078	p/o 20-0423-0016-0000 p/o 20-0423-0017-0000 p/o 20-0423-0021-0000 p/o 20-0423-0022-0000	Q100445000	WORTHY R. LOWMAN AND CORA E. LOWMAN, HIS WIFE; IDA V. LOWMAN, SINGLE; CORA B. RICHARDS AND JOHN E. RICHARDS, HER HUSBAND
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903					179
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136					250
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58					362
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522					33
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543					1235
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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					660
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601					581

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9	FK013946	20-0423-0018-0000 20-0423-0005-0000 20-0423-0003-0000	Q100907000	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1621	1295				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
				D. M. COLE AND E. E. COLE, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	175	166				
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795				
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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	660				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
				11	DAD37950	20-0423-0012-0000	Q101870000	LOXIE V. MCCLUNG AND WILBERT D. MCCLUNG, HER HUSBAND; ELMA F. MCCLUNG AND JUNIOR MCCLUNG, HER HUSBAND	WEST VIRGINIA ENERGIES	NOT LESS THAN 1/8	1143	638
								MARIE H. SMITH AND DONALD R. SMITH, HER HUSBAND; ALICE R. MACE AND ARNOLD G. MACE, HER HUSBAND	WEST VIRGINIA ENERGIES	NOT LESS THAN 1/8	1144	441
								GASTON OLDAKER AND ONIA OLDAKER, HIS WIFE	WEST VIRGINIA ENERGIES	NOT LESS THAN 1/8	1143	641
								WEST VIRGINIA ENERGIES, INC.	STONEWALL GAS COMPANY	ASSIGNMENT	1153	716
STONEWALL GAS COMPANY	DOMINION APPALACHIAN DEVELOPMENT PROPERTIES, INC.	MERGER/NAME CHANGE	59					1086				
DOMINION APPALACHIAN DEVELOPMENT PROPERTIES, INC.	CNX GAS COMPANY LLC	AFFIDAVIT - MERGER/NAME CHANGE	1472					294				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (50%)	1584					13				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584					942				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600					692				
42	FK022341	20-0423-0001-0000 20-0423-0001-0001 20-0423-0004-0000 20-0423-0004-0001 20-0423-0004-0002 20-0423-0004-0003 20-0423-0004-0004	Q100750000 Q102356000 FEE					JESSE B. KNIGHT AND LYDIA E. KNIGHT, HIS WIFE; AND A. B. COFFINDAFFER AND S. J. COFFINDAFFER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	192	362
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795				
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY	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	660				
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1621	1295				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				

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PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

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

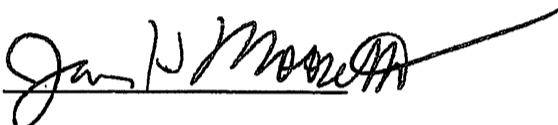
WELL NAME: Flesher 1212 N-4H

Well # 1212 N-4H

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

Submitted 
JOSH HINTON
HG ENERGY, LLC

DATE 8-17-2020

Approved 
Dominion Energy Transmission

DATE 8-19-20

Approved 
Dominion Energy Transmission

DATE 8-19-20

Comments:

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

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Environmental Protection



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

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August 27, 2020

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

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Environmental Protection

RE: Drilling Under Roads – Flesher 1212 N-4H
Freeman 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 Flesher 1212 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 Flesher 1212 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

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

Date of Notice Certification: 08/27/2020

API No. 47- _____ - _____

Operator's Well No. Flesher 1212 N-4H

Well Pad Name: Flesher 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>544296.8</u>
County:	<u>Lewis</u>		Northing:	<u>4330032.9</u>
District:	<u>Freemans Creek</u>	Public Road Access:	<u>Kincheloe Road / Valley Chapel Road</u>	
Quadrangle:	<u>Weston</u>	Generally used farm name:	<u>Flesher</u>	
Watershed:	<u>McCann 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: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED
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WV Department of
Environmental Protection

Required Attachments:

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

Certification of Notice is hereby given:

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

Well Operator: HG II Appalachia, LLC
By: Diane White *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 27th day of August, 2020.

Cassidy A. Boardman Notary Public

My Commission Expires 7/31/2022

Oil and Gas Privacy Notice:

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

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WW-6A
(9-13)

4704105707

API NO. 47-
OPERATOR WELL NO. Flesher 1212 N-4H
Well Pad Name: Flesher 1212

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: 09/29/20 Date Permit Application Filed: 09/01/20

Notice of:

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

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

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

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

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

SURFACE OWNER(s)
Name: HG Energy II Appalachia, LLC (Pad and Road) * Notice was not sent
Address: 5280 Dupont Road
Parkersburg, WV 26101
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____
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COAL OPERATOR
Name: _____
Address: _____
WV Department of
Environmental Protection

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Fred Bailey (also surface owner of water well) ✓
Address: 4853 Old Mill Road
Jane Lew, WV 26378
Name: Phyllis L & Dolores A Hinterer ✓
Address: P. O. Box 730
Jane Lew, WV 26378

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Robert Painter ✓
Address: 445 Millstone Road
Weston, WV 26452

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

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

*Please attach additional forms if necessary

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

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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

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API NO. 47- -
OPERATOR WELL NO. Flesher 1212 N-4H
Well Pad Name: Flesher 1212

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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API NO. 47-
OPERATOR WELL NO. Flesher 1212 N-4H
Well Pad Name: Flesher 1212

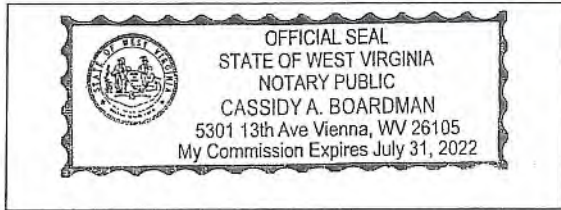
Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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Subscribed and sworn before me this 29th day of August, 2020.

Cassidy A. Boardman Notary Public

My Commission Expires 7/31/2022

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Flesher 1212 N-4H

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

- ✓ Fred Bailey
4853 Old Mill Road
Jane Lew, WV 26378

- ✓ Richard & Loretta Hayhurst
340 Cheyenne Drive
Weston, WV 26452

- ✓ Mary Ellen Nicholson
1149 Millstone Road
Weston, WV 26452

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

- ✓ Scott & Amy Carpenter
1089 Valley Chapel Road
Weston, WV 26452

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Page 1 Continued

Flesher 1212 N-4H

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

Fred Bailey ✓
4853 Old Mill Road
Jane Lew, WV 26378

Richard & Loretta Hayhurst ✓
340 Cheyenne Drive
Weston, WV 26452

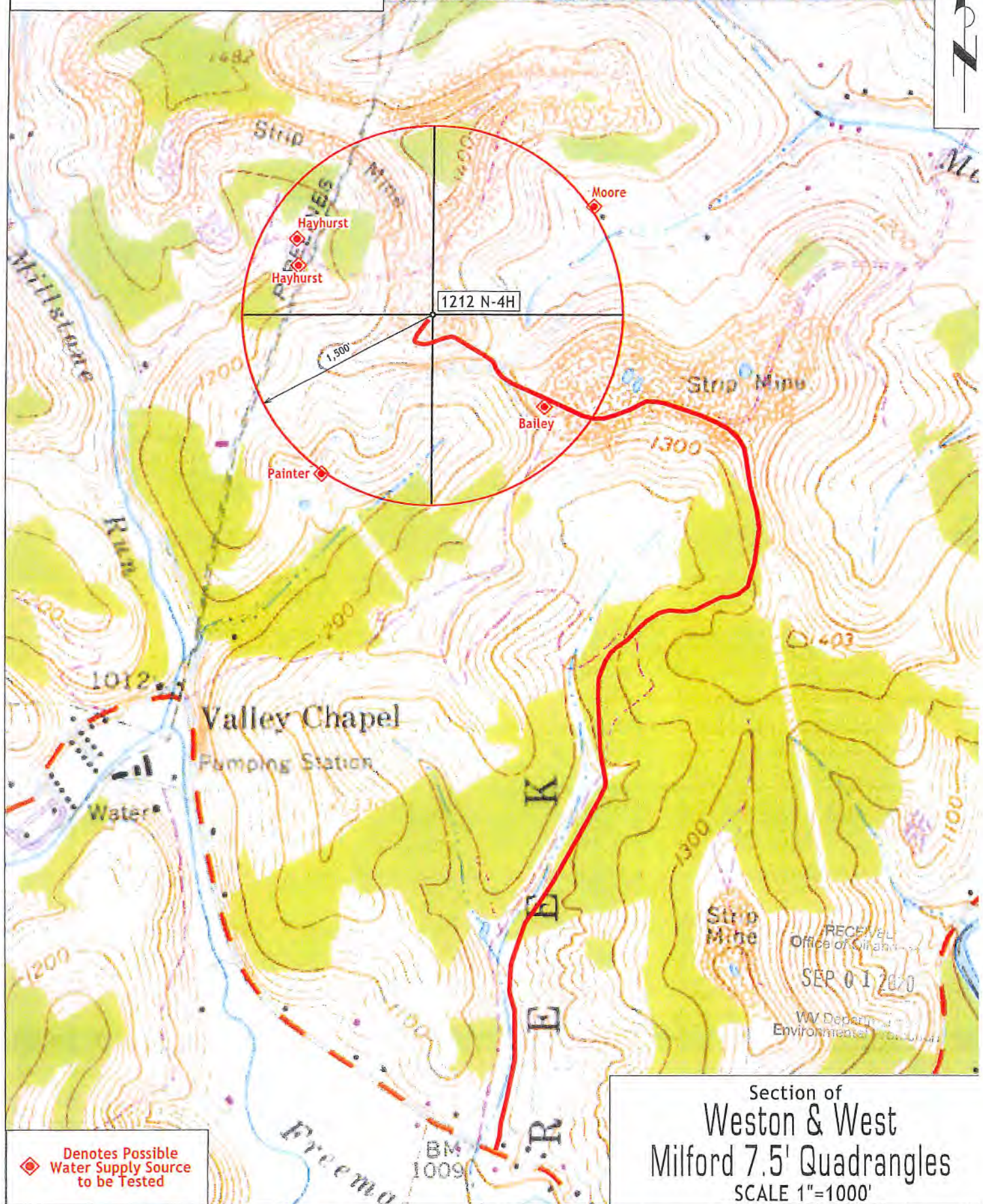
Mary Ellen Nicholson ✓
1149 Millstone Road
Weston, WV 26452

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

Scott & Amy Carpenter ✓
1089 Valley Chapel Road
Weston, WV 26452

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SUBJECT WELL
Flesher 1212 N-4H



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◆ Denotes Possible Water Supply Source to be Tested

Section of
Weston & West
Milford 7.5' Quadrangles
SCALE 1"=1000'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 3/20/20 **Date of Planned Entry:** 3/27/20

Delivery method pursuant to West Virginia Code § 22-6A-10a

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

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: HG Energy II Appalachia, LLC
Address: 5260 Dupont Road
Parkersburg, WV 26101

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: NA
Address: _____

MINERAL OWNER(s)

Name: Mineral Owners
Address: _____

*please attach additional forms if necessary

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Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.118321 & 80.487657</u>
County: <u>Lewis</u>	Public Road Access: <u>SR 19/ Kincheloe Run / Valley Chapel Road</u>
District: <u>Freeman's Creek</u>	Watershed: <u>McCann Run</u>
Quadrangle: <u>Weston 7.5'</u>	Generally used farm name: <u>Flesher</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

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Mineral Owners

Alicia Sue Lang
14 High Meadow Drive
Charleston, WV 25311

Allen Dale Baker
700 Timothy Drive
Frankfort, KY 40601

Barbara J. Allman
721 Tamwood Dr
Canal Fulton, OH 44614

Bernard Bennett
56 Long Run Road
Lost Creek, WV 26385

Brenda Jean Holbert Smith
9908 Easy Street
Disputanta, VA 23842

Carolyn Montanez
PO Box 306
Pomeroy, OH 45769

Charles Gregory Garton
P.O.Box 1234
Weston, WV 26452-2017

Constance Riffle
142 Marshall Road W
Warren, OH 44483

David Hugh Ramsburg
PO Box 876
Jane Lew, WV 26378

Alisa G. Gum
1101 Broad Run Road
Jane Lew, WV 26378

Anna R. Hitt
c/o 1st Community Bank
PO Box 280
Buckhannon, WV 26201

Barbara Joseph
232 Summit Ave. Apt. 2
Niles, OH 44446

Beth Ann Dunham
988 Jackson Mill Road
Jane Lew, WV 26378

Carole Anne Houseman
2368 Brandt Village
Greensboro, NC 27455

Charles E. Garton Trust
PO Box 1234
Weston, WV 26452

Christina Salziger
911 Echo Bay Ct
Gambrills, MD 21054

David C. Garvin
300 Riverside Dr Allegan
Allegan, MI 49010

David Hugh Ramsburg II
215 Tarbert Court
Morgantown, WV 26508

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(1-12)Page 1 ContinuedMineral Owners

David Offield
124 Shirley Court
Breckenridge, TX 76424

Deana Diane Roush
320 McCann Lane
Frankfort, KY 40601

Deborah Garton Butler
P.O. Box 1234
Weston, WV 26452-2017

Debra Jo Heater
441 Hollick Run Rd
Jane Lew, WV 26378

Denise Carol Ramsburg
2516 Copley Drive
Weston, WV 26452

Derrick Joseph Ramsburg
512 Columbia Street
Fairmont, WV 26554

Diana Kay Dunham Neely
478 Kinchloe Road
Jane Lew, WV 26378-6810

Dollena Joy Barber
1820 S Contention Lane
Cottonwood, AZ 86326

Donald Reed Baker
5575 New Glendale Road
Elizabethtown, KY 47201

Donna Davis
2128 Kincheloe Road
Jane Lew, WV 26378

Douglas R Frishe
720 6th St
Wolfforth, TX 79382

Ella Dumke
352 Parkman Road NW
Warren, OH 44485

Ellen E Corathers
14824 Shelter Ln
Haymarket, VA 20169

Frederick Anthony Dunham
1594 Norwood Street
The Villages, FL 32163

Gerald Ramsburg
285 Parkview Drive
Bridgeport, WV 26330

Harrison County Bank, Trustee
Mary & William Thrash Charitable Trust
PO Box 98
Lost Creek, WV 26385

Ida Ruth Hughes
2031 Kincheloe Road
Jane Lew, WV 26378

James Joseph II
98 Copperhead Road
Weston, WV 26452-7991

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Mineral Owners

Jane Earle Dunham
228 Beechwood Estates
Scott Depot, WV 25560

Jeannie McCormick
1652 Romines Mill Rd
Lost Creek, WV 26385

Jeffrey Allman
1202 McWhorter Road
Jane Lew, WV 26378

Joanne E Wolfe
45746 W J 1 Ranch Road
Wickenburg, AZ 85390

John W. Campbell
2309 Blue Ridge Drive
Greensboro, NC 27455

Karen K. Hobbs
1241 East Jefferson Pike
Murfreeboro, TN 37130

Karen Rae Wolfe Coone
4 Pine Ct
Marietta, SC 29661

Karol Wolfe Yeatts
Trust Admin of Jack Reid Wolfe Trust
8446 Campbell Ave
Sebastian, FL 32958

Karrie D. Sims
6833 Wagon Oak Dr
Charlotte, NC 28212

Katherine Ruth Ellis
163000 SE 59th St
Ocklawaha, FL 32179

Kathy C. Frishe
512 W Hullum St.
Breckenridge, TX 76424

Kathy D. Bennett
PO Box 383
Lost Creek, WV 26385

Katrina L. West
73 Kooter Lane
Shinnston, WV 26341

Keith A and Shirley Murphy
828 Laurel Park Road
Clarksburg, WV 26301

Kimberly D. Zaner
412 Downing Drive
Chesapeake, VA 23322

Kristine L White
323 Silky Leaf Dr
Houston, TX 77073

Larry K. Allman
329 Ralph Miller Rd
Lexington, NC 27295

Lee Gregory
1846 Powell Drive #106
Fort Myers, FL 33917

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1212 N-IH --- S-8H

Page 1 Continued

Mineral Owners

Lori Caldwell Minor
16177 Aura Lane
Bokeelia, FL 33922

Marjorie A. Neely
RR 2 Box 80
Jane Lew, WV 26378

Marjorie Neely
375 Neely Hollow Rd
Jane Lew, WV 26378

Mark Allman
7 Avon court
Bloomington, IL 61701

Mary Katherine Gum
6439 Main Street
Jane Lew, WV 26378

Melissa Garton Allison
302 Edgewood Drive
Weston, WV 26452-2017

Michael W Frishe
150 Rebel Hill Dr
 Mooresville, NC 28115

Nancy J McGregor
782 Polk Ave.
Akron, OH 44314

Oleta M. Hitt
1633 Fuller Road
Colorado Springs, CO 80920

Opal M. Garton
PO Box 1234
Weston, WV 26452

Patricia A. Butcher, Agent
1633 Fuller Road
Colorado Springs, CO 80920

Phillip A Frishe
7837 Little Rd
New Port Richey, FL 34654

Phyllis Anne Taylor
187 River View Drive
St. Albans, WV 25177

Phyllis Anne Taylor Hitt
187 River View Drive St
Albans, WV 25177

Phyllis K. Beard Gentry
10611 Woodbridge Road
Camden, MI 49232

Rebecca Lynn Taylor
321 Valley Chapel Rd
Weston, WV 26452

Rebecca Vanhorn
PO Box 555
Lost Creek, WV 26385

Richard W. Dunham
47 Millstone Road
Weston, WV 26452-2017

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Mineral Owners

Robert Turnbull
403 Linway Ave N.W.
Massillon, OH 44646

Roger Allman
50 Royal Lane
Homer, WV 26372

S.A. Smith Morris & C. Burke Morris,
JP Morgan
PO Box 99084 Bank One WV
Fortworth, TX 76199

Sharon K. Lipton Brown
113 Regency Cir
Anderson, SC 29625

Sharon L. Burton
314 NE First Avenue
Paden City, WV 26159

Sharon Sue Garrison
PO Box 388
Jane Lew, WV 26378

Sharron K. Lipton
113 Tegency Circle
Anderson, SC 29625

Shauna Fesler
235 Lee St
Weston, WV 26452

Shirley Ester Murphy
828 Laurel Park Road
Clarksburg, WV 26301

Shirley Murphy and Keith Murphy
828 Laurel Park Road
Clarksburg, WV 26301

Shirley Passmore
1604 E. Jackson St.
Bloomington, IL 61701

Stephen Scott Garton
128 High Street
Weston, WV 26452-2017

T.U.A. John W. Keller, JP Morgan
PO Box 99084 Bank One WV
Fortworth, TX 76199

T.U.A. Nancy H. Heefner, JP Morgan
PO Box 99084 Bank One WV
Fortworth, TX 76199

The Koelln Family Trust
Carol Lynn Koelln Lewis, Sub Trustee
802 Reuter Dr
Hastings, MN 55033

Thelma Nell Palmer
P.O. Box 188
Pine Grove, WV 26419

Thomas Hugh Dunham
548 Cindy Lane
Smyrna, DE 19977

Trustees of Alderson-Broadus College
101 College Hill Drive Box 2004
Philipi, WV 26416

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Mineral Owners

Vicki L. Bolyard
98 Roy Road
Thornton, WV 26440

Vicki Offield
1304 North 19th St
Clarksburg, WV 26301

Virginia J. Hitt
P.O. Box 356
Jane Lew, WV 26378

Virginia J. Hitt
13 Whiteman St
Clarksburg, WV 26301

We Are Farmers, LLC
P.O. Box 219
Coalton, WV 26257

William Bennett
1248 Long Run Rd
Lost Creek, WV 26385

William H. Blake
9100 Bon Air Crossings Dr Apt 122
Richmond, VA 23235

William J Frishe
5730 Rutledge Pike
Knoxville, TN 37924

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4704105707

March 20, 2020

RE: Flesher 1212 N-1H thru S-8H
Freeman's Creek District, Lewis County
West Virginia

Dear Royalty Owner

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WVDEP at 304-926-0450, located at 601 57th Street, Charleston, WV. Copies of such documents or additional information related to horizontal drilling may also be obtained by visiting the WV DEP online.

No action on your part is required. If you have any questions or comments regarding this permit application, you may call this office at (304) 420-1119. Questions concerning lease issues may be directed to Mark Schall at 304-420-1115. Address inquiries should be directed to Bethanne Wilson at 304-370-3246.

Very truly yours,

Diane White

Diane C. White

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Enclosures

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: 03/13/2020 **Date Permit Application Filed:** 03/31/2020

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: HG Energy II Appalachia, LLC * Notice not sent Name: _____
Address: 5260 Dupont Road sent Address: _____
Parkersburg, WV 26101 _____

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: 544296.8
County: Lewis Northing: 4330032.9
District: Freemans Creek Public Road Access: Kincheloe Run Rd to Valley Chapel Road
Quadrangle: Weston 7.5' Generally used farm name: Flesher
Watershed: McCann 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
Facsimile: 304-863-3172

Authorized Representative: Diane White RECEIVED
Address: 5260 Dupont Road Office of Oil and Gas
Parkersburg, WV 26101 SEP 01 2020
Telephone: 304-420-1119 WV Department of
Email: dwhite@hgenergyllc.com Environmental Protection
Facsimile: 304-863-3172

Oil and Gas Privacy Notice:

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



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

August 17, 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 Flesher 1212 Pad, Lewis County
 Flesher N-4H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2020-0148 which has been issued to HG Energy, LLC for access to the State Road for a well site located off Lewis County Route 10 SLS MP 16.2.

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

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WV Department of
 Environmental Protection

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

HG Energy II Appalachia, LLC
List of Frac Additives by Chemical Name and CAS #
Flesher 1212 Well Pad (N-1H to N-4H, S-5H to S-8H)

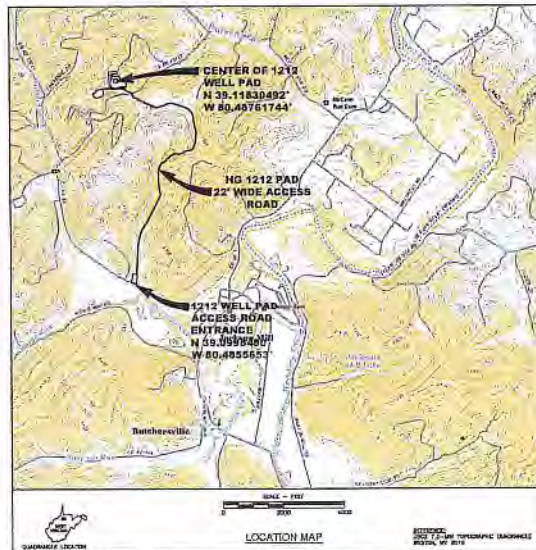
Chemical Name	CAS #	Multiple CAS #'s
Pro Shale Slik 405	Mixture	68551-12-2 7647-14-5 12125-02-9 64742-47-8
Pro Hib II	Mixture	68412-54-4 68607-28-3 107-21-1 111-76-2 67-56-1 107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7 1344-28-1 1309-37-1 13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL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

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CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1212 WELL PAD

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

FREEMANS CREEK DISTRICT LEWIS COUNTY WEST VIRGINIA



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

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

Dist	Dist	Dist	Stockpile
0121 Well Pad	7,200	7,400	-170
0122 Well Pad Access Road	20,400	21,150	-4,350
0123 Well Pad Staging Area 1	630	1,100	-170
0124 Well Pad Staging Area 2	7,300	6,165	1,115
0125 Well Pad Staging Area 3	700	765	-60
Total	41,530	36,680	4,440
Est. Soil Loss (TON)			868
Est. Soil Storage:			6,300
Required Topsoil (Cubic Feet/ft ³)			14,811
Est. Soil Stockpile (TON)			2,903
Est. Topsoil Stockpile Volume (Cubic Yds)			17,176
Minimum Topsoil Storage Capacity (TON)			22,094

Notes:

1. Material balance for est. goes out/in/stockpile quantities only.
2. Topsoil est. volume based on 1.5% average depth.
3. Material balance and appropriate erosion control measures are assumed and may not be representative of actual quantities.
4. Erosion control measures are not included in this estimate.

Dist	Dist	Dist	Dist	Dist	Dist	TOTAL
0121 Well Pad	20,300	4,200	7,775	2,940	18,675	50,990
0122 Well Pad Access Road	1,100	200	840	290	1,200	4,630
0123 Well Pad Staging Area 1						8,000
0124 Well Pad Staging Area 2						1,722
0125 Well Pad Staging Area 3						1,618
TOTAL Estimated 10' Compacted Fiber Stock Length (LF)						19,400
Estimated 12' Fiber Stock Length (LF)						19,281
Estimated 12' Fiber Stock Length (LF)						850
Estimated 12' Fiber Stock Length (LF)						6.84
TOTAL Estimated Length of Disturbance (LINE)						38.75
Well Pad Pad Construction Elevation (FT)						1,738.00
Well Area Surface Elevation (Top of Topsoil Stockpile) (FT)						1,532.00
Well Area Surface Elevation (FT)						1,532.16

CONSTRUCTION SEQUENCE

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

WELL #	LAT.	LONG.
N-1H	N 39.118321	W 80.487657
N-2H	N 39.118362	W 80.487665
N-3H	N 39.118370	W 80.487658
N-4H	N 39.118330	W 80.487598
S-5H	N 39.118281	W 80.487668
S-6H	N 39.118240	W 80.487641
S-7H	N 39.118248	W 80.487572
S-8H	N 39.118289	W 80.487560

WELL ELEVATIONS 1332.16
UTM83-17F

	LATITUDE	LONGITUDE
1212 WELL PAD ACCESS ROAD ENTRANCE	N 39.09984907	W 80.48556532

RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
VALLEY CHAPEL ROAD RIGHT-OF-WAY	N/A	N/A	0.03
PHYLLIS L. & DOLORES A. HINTERER	21-03-0080-0040-0000	12.28	3.01
PHYLLIS L. & DOLORES A. HINTERER	21-03-0080-0030-0000	21.20	1.87
SCOTT & AMY CARPENTER	21-03-0080-0040-0000	42.75	5.52
FRED A. BAILEY	21-03-0080-0032-0001	93.26	1.01
MARY JANE BAILEY	21-03-0070-0016-0000	138.83	0.78
FRED A. BAILEY	21-03-0080-0045-0000	50.25	3.92
FRED A. BAILEY	21-03-0080-0046-0000	40.10	4.21
MILLSTONE ROAD RIGHT-OF-WAY	N/A	N/A	0.04
JARED D. & REBECCA J. FLESHER	21-03-0080-0047-0000	72.07	12.35
TOTAL LIMIT OF DISTURBANCE			32.75 AC.

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TITLE SHEET
HG 1212 WELL PAD
FREEMANS CREEK DISTRICT
LEWIS COUNTY, WEST VIRGINIA

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

APPROVED SEP 03/20/2020
CHECKED SEP 03/20/2020
DRAWN SEP 03/20/2020
PROJECT No. 4000-PAD00113

BARROW NUMBER
PAD001132-001
SHEET 1

111 RYAN COURT, PITTSBURGH, PA 15204
412-722-1222

WEST VIRGINIA CALL BEFORE YOU DIG! Dial 811 or 800.245.4848

1. REMOVE UTILITY MARKS ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MARKING, AND REPLACING AS NECESSARY TO INSURE CONTINUAL SERVICE.

Bay Stelling
8-24-20

C:\NEWWORK\PROJECTS\HG 1212 PAD\TITLE SHEET.DWG, 3/24/2020 11:53 AM