



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Friday, January 22, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

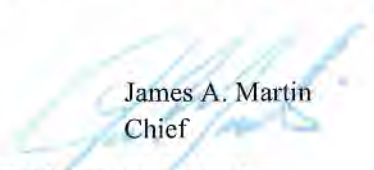
PARKERSBURG, WV 26101

Re: Permit approval for FLESHER 1212 N-3H
47-041-05712-00-00

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.


James A. Martin
Chief

Operator's Well Number: FLESHER 1212 N-3H
Farm Name: H. G. ENERGY II APPALACHIA
U.S. WELL NUMBER: 47-041-05712-00-00
Horizontal 6A New Drill
Date Issued: 1/22/2021

PERMIT CONDITIONS

4704105712

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

CONDITIONS

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

API Number: _____

PERMIT CONDITIONS

4704105712

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
(304) 926-0450
Fax: (304) 926-0452

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:

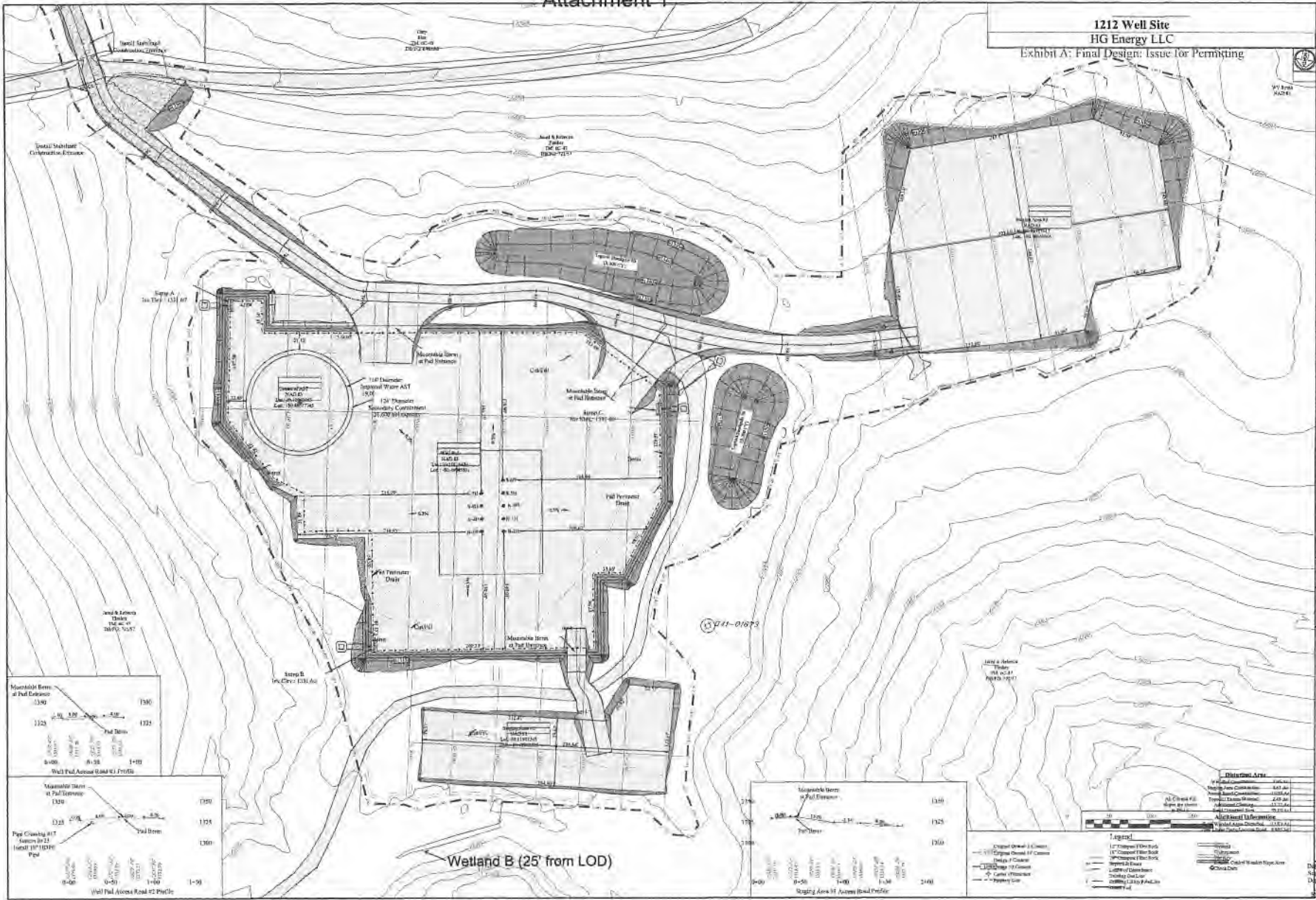
OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

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
HG Energy LLC
 Exhibit A: Final Design: Issue for Permitting





THIS DOCUMENT
 THE PROPERTY OF
 HG ENERGY LLC

K+S
 SURVEYING
 A DIVISION OF
 K+S GROUP

Site File
1212 Well Site
 Freeman Creek District
 Lenoir County, W.V.

Date: 10/23/2020
 Author: A. Shover
 Designer: J. J. Jones
 Plot No.:
 Page 26 of 27

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

1) Well Operator: HG Energy II Appalachia, L.P. 494519932 Lewis Freeman Weston 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Flesher 1212 N-3H 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#.

8) Proposed Total Vertical Depth: 6925'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 24,334'

11) Proposed Horizontal Leg Length: 16,916'

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 in the DTI Storage Field)

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

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

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Office of Oil and Gas
WV Department of Environmental Protection

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

B.S. 11-20-20

4704105712

WW-6B
(04/15)

API NO. 47- _____ - _____
 OPERATOR WELL NO. Flesher 1212 N-3H
 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	24334'	24334'	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	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Lead 40% excess, Tail 0% Excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.19, tail yield 1.94
Tubing							
Liners							

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PACKERS

DEC 16 2020

Kind:				WV Department of Environmental Protection
Sizes:				
Depths Set:				

B.S. 11-20-20

WW-6B
(10/14)

API NO. 47- _____ - _____
 OPERATOR WELL NO. Flesher 1212 N-3H
 Well Pad Name: Flesher 1212

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 16,916' lateral length, 24,334' 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 - Bow Spring on every joint, will also be running ACP for isolating storage zone
 Intermediate 2 - Bow Spring on first 2 joints then every third joint to 100' from surface.
 Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor - N/A, Casing to be drilled in w/ Dual Rotary Rig.
 Fresh Water/Coal - 15.8 ppg PNE-1 + 3% bwoc CaCl₂, 40% Excess Yield = 1.20, CTS
 Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂, 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂ zero% Excess, CTS
 Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂, zero% Excess, CTS
 Production - Lead: 14.8 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc ECI + 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

25) Proposed borehole conditioning procedures:

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

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WV Department of
Environmental Protection

*Note: Attach additional sheets as needed.

HG Energy II Appalachia, LLC

Flesher 1212 Well Pad (N-1H, N-2H, N-3H, N-4H, N-9H, 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>85997-15-1</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> <tr> <td>Magnesium oxide</td> <td>1 - 5</td> <td>1309-48-4</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>0.1 - 1</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Portland cement	90 - 100	85997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>bentonite</td> <td>90 - 100</td> <td>1302-78-9</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-9	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
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Calcium Chloride	Accelerator	A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>90 - 100</td> <td>10043-52-4</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
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Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
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Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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EC-1			<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium magnesium oxide</td> <td>90 - 100</td> <td>37247-91-9</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium magnesium oxide	90 - 100	37247-91-9												
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MPA-170	Gas Migration	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-3H
Marcellus Shale Horizontal
Lewis County, WV

1212 N-3H SHL

14206130.97N 1785744.74E

Ground Elevation

1332.2'

1212 N-3H LP

14206768.53N 1786270.59E

Azm

340.539°

1212 N-3H BHL

14222711.96N 1780636.78E

WELLBORE DIAGRAM

HOLE CASING GEOLOGY TOP BASE MUD CEMENT CENTRALIZERS CONDITIONING COMMENTS

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
			Kittaning 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					
	12.25"	9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	2008 / 2105	2033 / 2128	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=3950 psi
			Gordon Stray / Gordon	2128 / 2198	2198 / 2288					
			5th Sand	2374	2416					
			Bayard Sand	2450	2480					
	8.5" Vertical	5-1/2" 23# P-110 HP CDC HTQ	Speechley	3078	3089	AIR / 9.0ppg SOB	Lead: 14.5 ppg POZ.PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions
			Balltown	3278	3350					
			Benson	4370	4382					
	8.5" Curve		Rhinestreet	6256	6445	11.5ppg-12.5ppg SOB				
Cashaqua			6445	6526						
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)		24334	6925	11.5ppg-12.5ppg SOB					
	Onondaga		6927							

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LP @ 6925' TVD / 7418' MD

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

+/-16916' ft Lateral

TD @ +/-6925' TVD
+/-24334' MD

X=centralizers

4704105712

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Flesher 1212 N-3H

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.M.

-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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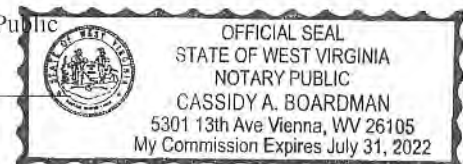
WV Department of
Environmental Protection

Subscribed and sworn before me this 20th day of October, 2020

Cassidy Boardman Notary Public

My commission expires 7/31/2022

B.S. 10-22-20



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
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Maintain E&S controls through the drilling and completion process

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: CTB for BS 1/20/2021

Comments: Pre-seed/mulch as soon as reasonably possible per regulation.
Upgrade E&S if needed per WV DEP E&S manual.

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Title: Oil & Gas Inspector

Date: _____

Field Reviewed? () Yes () No

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Cuttings Disposal/Site Water

Cuttings -Haul off Company:

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

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

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

Disposal Locations:

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

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

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

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

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

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

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

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

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

Brooke County Landfill Permit # SWF-103-97 / WV 0109029
Rd 2 Box 410
Collfers, WV 26035
304-748-0014

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

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

Energy Solutions Services, Inc. Permit # R-73006-L24
1560 Bear Creek Road
Oak Ridge, TN 37830

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions
11942 Veterans Memorial Highway
Masontown, WV 26542

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

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

Disposal Locations:

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

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

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

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

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

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

Equipment Transport
1 Tyler Court
Carlisle, PA 17015

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

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

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

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

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

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

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

Mozena #1 Well (SWIW # 13)
Permit # 34-157-2-5511-00-00
5367 E. State Street
Newcomerstown, OH 43882
740-763-3966

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

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

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

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

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

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

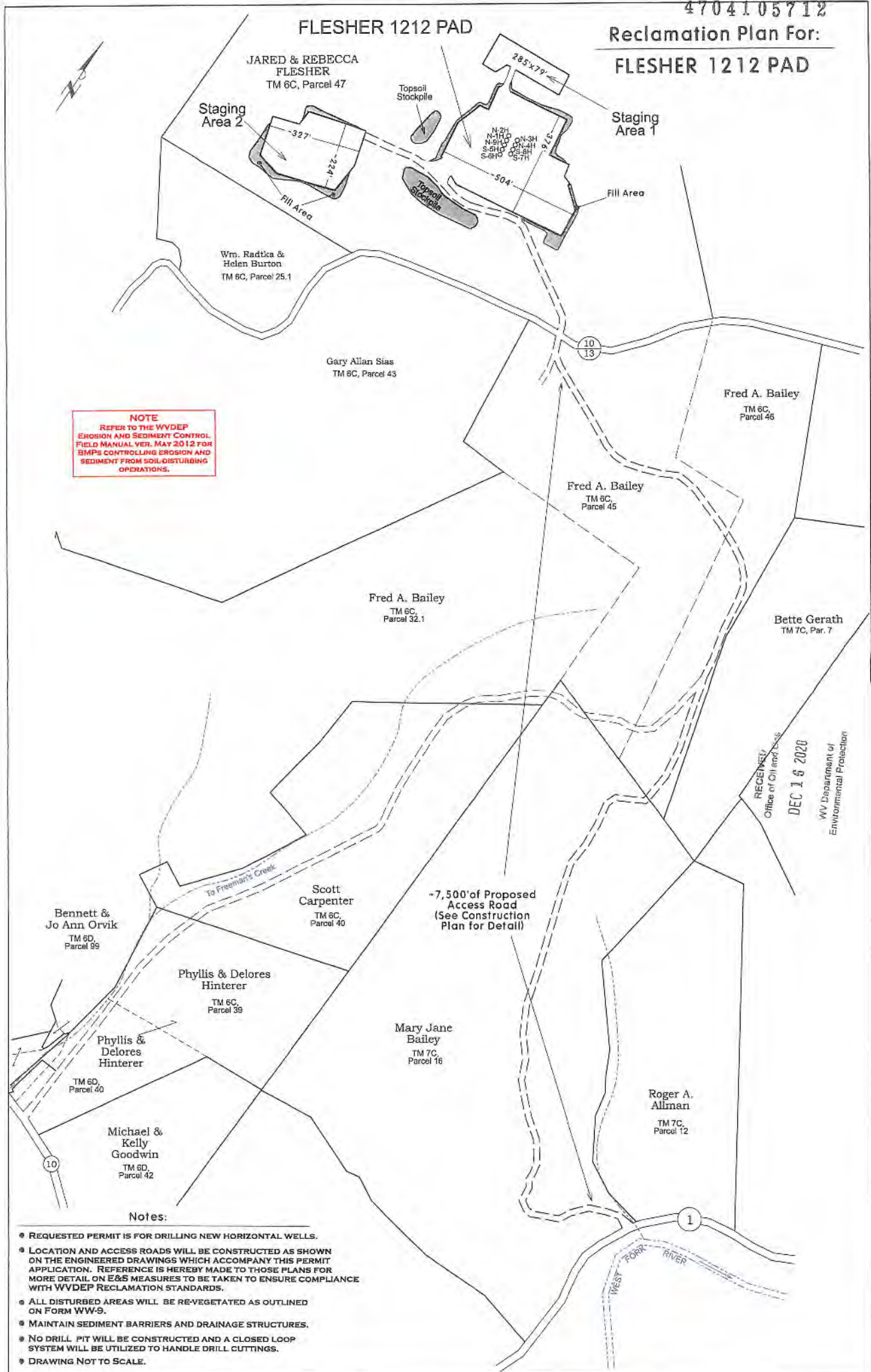
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Reclamation Plan For: FLESHER 1212 PAD

FLESHER 1212 PAD



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

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

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EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

FLESHER 1212 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H & N-9H

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	39.161514	-80.512726
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	39.171609	-80.505825
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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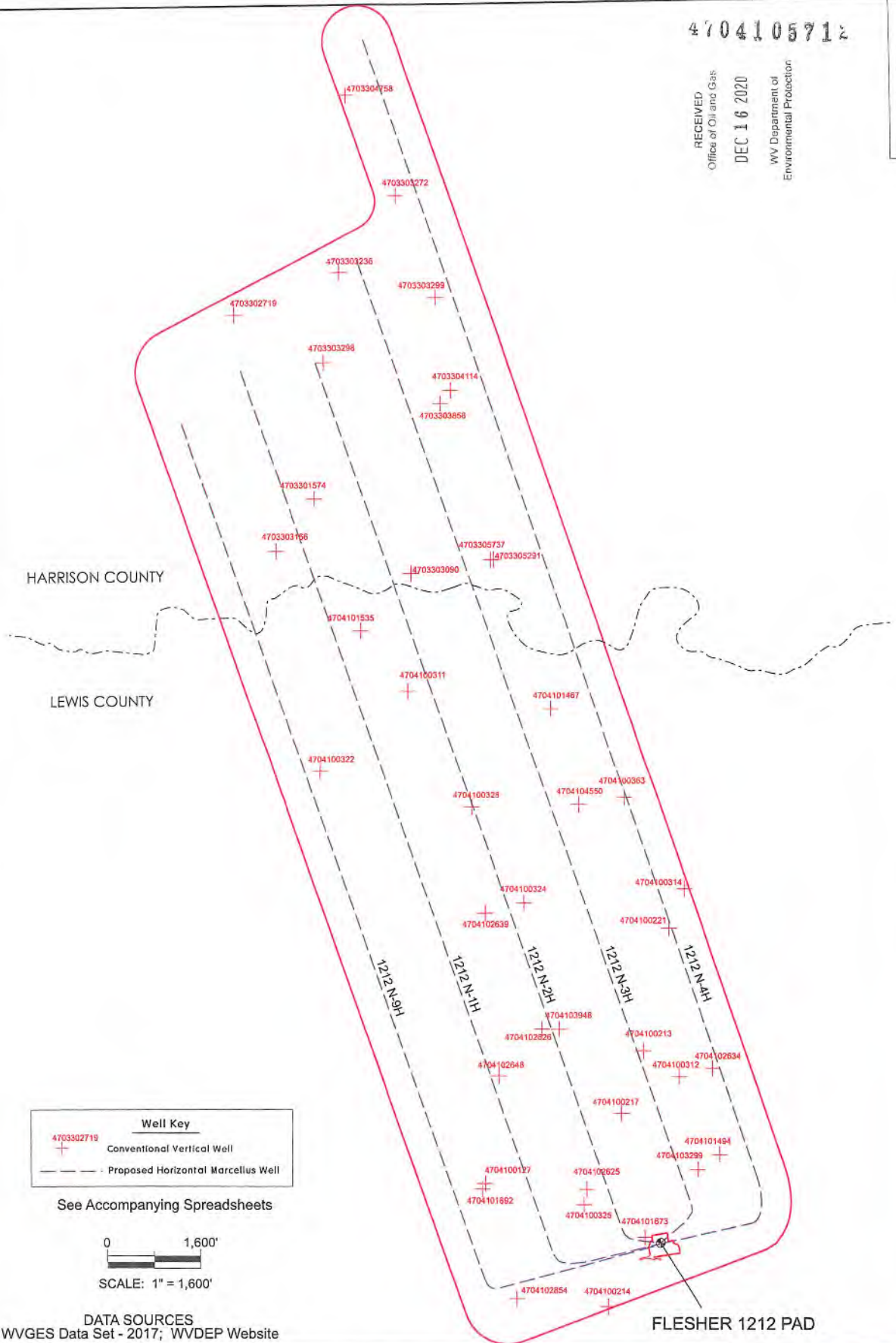
34	4704102634	Lewis	T S Allman	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.126443	-80.484399
35	4704102639	Lewis	H L Frashuer	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.133693	-80.497995
36	4704102648	Lewis	Edwin Gaston	Dominion Energy Transmission, 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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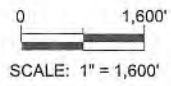
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Well Key	
	4703302719 Conventional Vertical Well
	Proposed Horizontal Marcellus Well

See Accompanying Spreadsheets



DATA SOURCES
WVGES Data Set - 2017; WVDEP Website

FLESHER 1212 PAD

Area of Review for:

FLESHER 1212 NORTH UNIT

- Proposed 1212 N-1H Proposed 1212 N-2H
- Proposed 1212 N-3H Proposed 1212 N-4H
- Proposed 1212 N-9H

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



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

10/23/2020

HG Energy II Appalachia, LLC

Site Safety Plan

Flesher 1212 Well Pad
630 Chapel Road Weston
Lewis County, WV 26452

August 2020: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

Bany Phillips

11-20-20

RECEIVED
Office of Oil and Gas
DEC 16 2020
WV Department of
Environmental Protection

SUBJECT WELL
Flesher 1212 N-3H

McCann Run 704105712



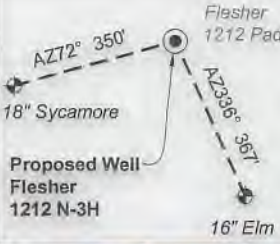
◆ Denotes Possible Water Supply Source to be Tested

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

HG Energy II Appalachia, LLC
Well No. Flesher 1212 N-3H

Page 1 of 2

Well Location References
Not to Scale



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.

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

ID	Lease
5	W.H. Coffindaffer, et al
6	W.H. Coffindaffer, et al
7	A.C. Thrash, et al
8	W.L. Oldaker
12	Mary Post Davis, et al
14	Fannie M. Hughes, et al
15	Alvadore Hughes, et al
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19	A.R. Frashuer, et al
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45	Edwin Gaston, et al
46	B.E. Williams, et al
50	Susan R. Hall, et al
51	Alda V. Hitt
52	W.D. Hitt, et al

8,352' to Top Hole

1,551' to Bottom Hole

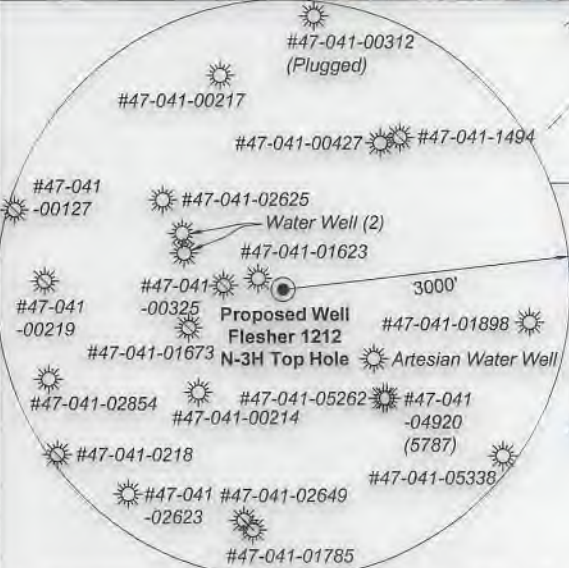
TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 10 - 00

Bottom Hole
7.5' Spot
TOP LONGITUDE 80 - 27 - 30
BTM LONGITUDE 80 - 30 - 00

Tag	Bearing	Dist.	Description
L1	N 41°48' W	1,551.2'	#47-041-05262
L2	N 22°48' E	702.2'	1/2" Rebar
L3	N 67°10' E	1,625.7'	1" Iron pipe
L4	S 35°16' E	1,990.1'	5/8" Rebar
L5	N 39°31' E	826.4'	Landing point

1,009' to Bottom Hole

2,448' to Top Hole



Note: 5 water wells and 1 artesian well was found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



1.5'x1'x0.5' stone @
3 way fence corner

FILE NO: 156-36-12-U-F-19
DRAWING NO: Flesher 1212 N-3H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 18 2020
OPERATOR'S WELL NO. Flesher 1212 N-3H
API WELL NO HGA
47 - 041 - 05712
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

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: 24,335' 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

Legend

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



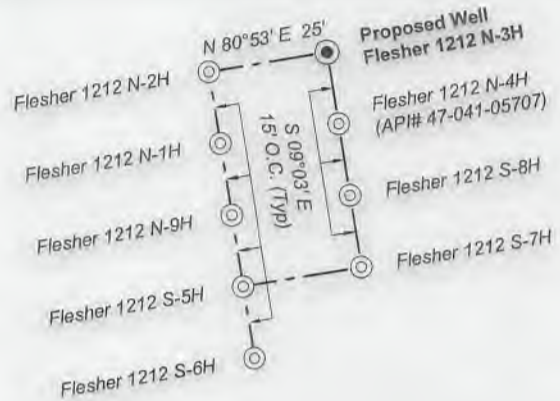
Lewis Co. - Freeman Creek Dist.

No.	TM / Par	Owner	Bk / Pg	Ac.
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18	6B / 35	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	21.75
19	6B / 36	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	28.00
20	6B / 24	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	11.15
21	6B / 25	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	45.00
22	6B / 37	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	96.14
23	6B / 37.1	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	570 / 720	11.72
24	6B / 23	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	21.75
25	6B / 22	Robert E. Brincefield, Jr. & Terri Lynne Trust, et al	578 / 630	99.46
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27	6B / 21.3	Margarete E. Roles	W50 / 769	6.63
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37	423 / 23	Jeffrey & Anessa Griffith	1313 / 1245	25.10
38	423 / 13	Jeffrey & Anessa Griffith	1313 / 1245	45.10
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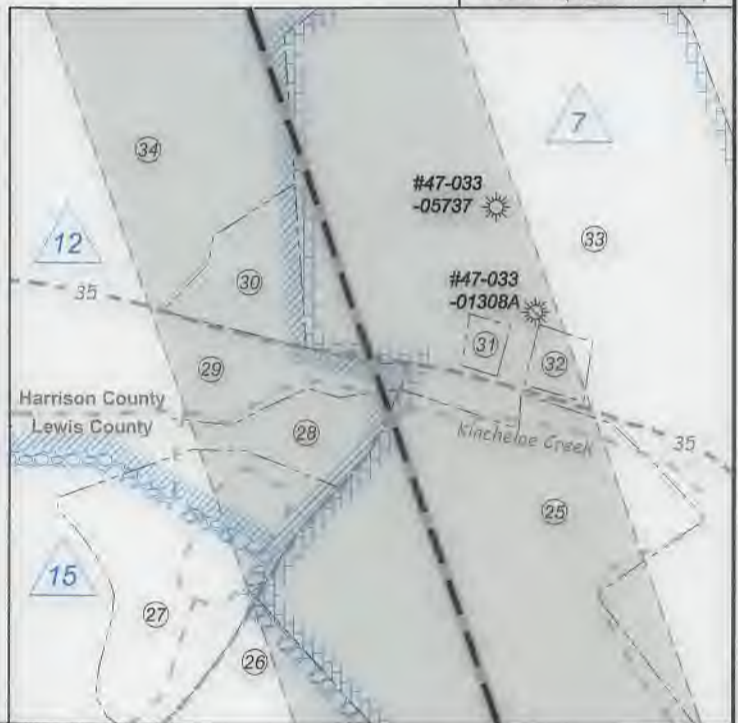
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Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'05.80" Latitude: 39°09'50.03"
Longitude: 80°29'16.01" Longitude: 80°30'19.69"
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E: 544,296.085m E: 542,739.176m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

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N: 14,206,768.53'
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Bottom Hole Coordinates
N: 14,222,711.96'
E: 1,780,636.78'

Wellhead Layout (NTS)



Detail 1 (Scale 1"=500')



FILE NO: 156-36-12-U-F-19
DRAWING NO: Flesher 1212 N-3H 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

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API WELL NO HGA
47 - 041 - 05712
STATE COUNTY PERMIT

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(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

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24,335' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

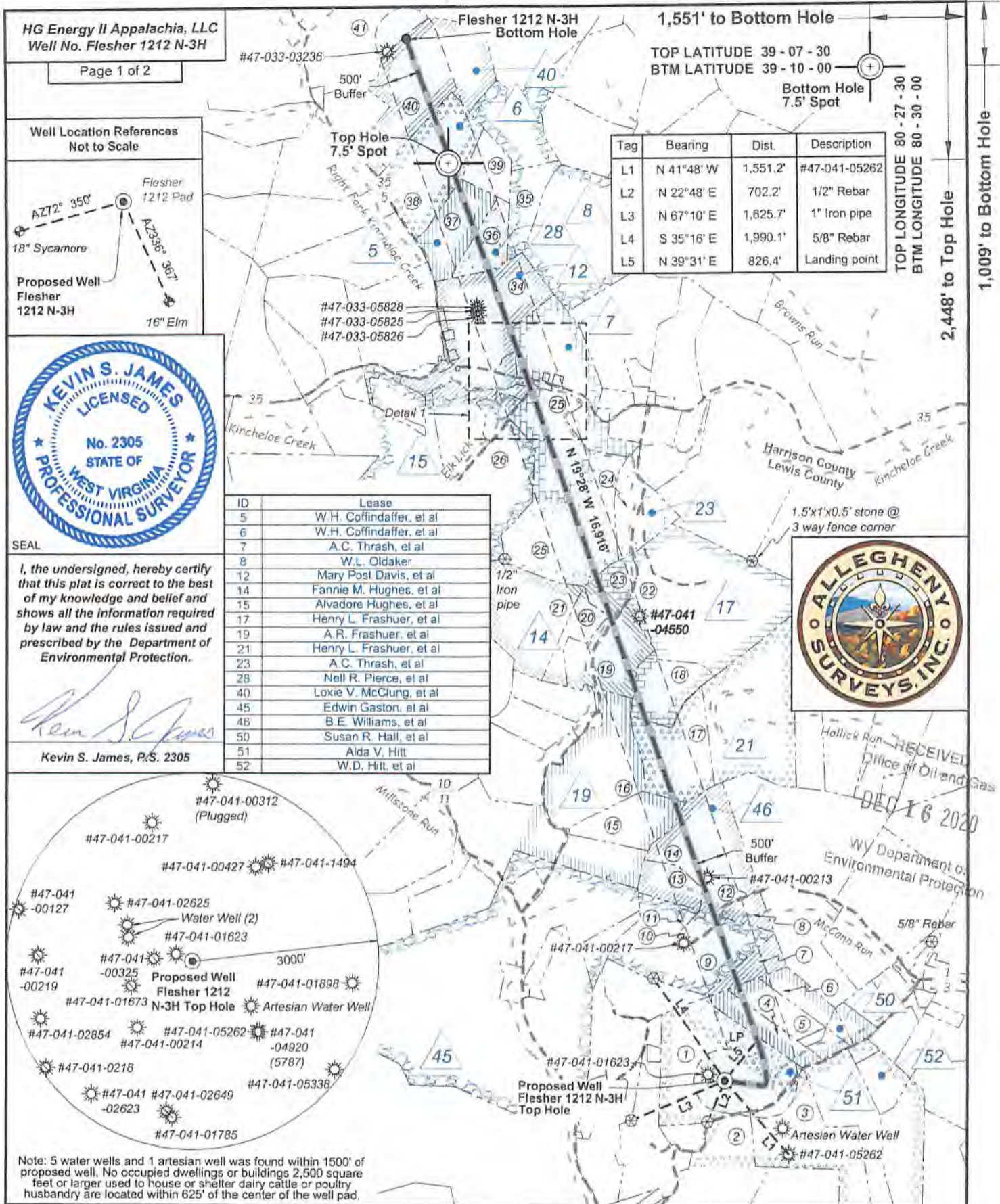
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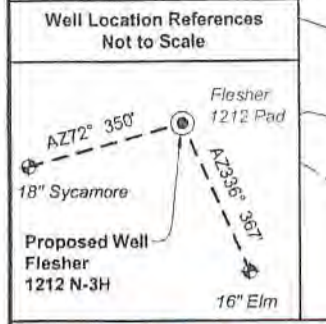
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HG Energy II Appalachia, LLC
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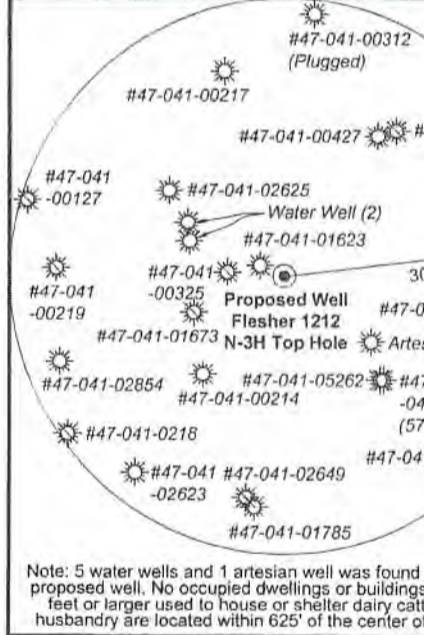
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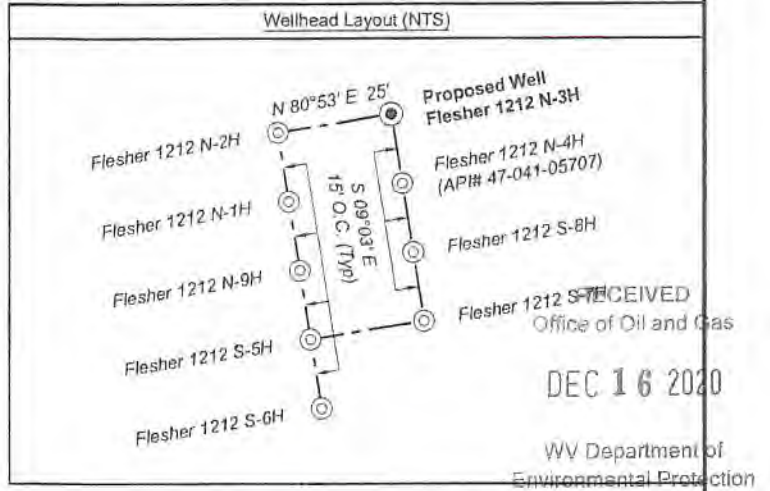
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ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

WW-6A1
(5/13)

Operator's Well No. Flesher 1212 N-3H

**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

RECEIVED
Office of Oil and Gas

DEC 16 2020

WV Department of
Environmental Protection

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

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

HG Energy II Appalachia, LLC
Flesher 1212 N-3H Lease Chain

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				
				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

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50	FK053178	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	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
				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

46	FK064785	03-006B-0030-0000 03-006B-0030-0001 03-006B-0030-0002 03-006B-0030-0003 p/o 03-006C-0023-0000	Q100706000	B. E. WILLIAMS, WIDOWER, FRENCH M. WILLIAMS AND MAE WILLIAMS, HIS WIFE; MYRTLE WILLIAMS, WIDOW; LUCY M. GARTON, WIDOW; GEORGE GARTON, WIDOWER; JAMES GARTON AND DELPHIA R. GARTON, HIS WIFE; NELLIE NICHOLAS, WIDOW; ANNA MCWHORTER AND G. C. MCWHORTER, HER HUSBAND; H. D. WILLIAMS AND IDA O. WILLIAMS, HIS WIFE; MYRTLE WILLIAMS GDN. FOR EARL C. WILLIAMS JR., RALPH DALE WILLIAMS, HARVEY GLEN WILLIAMS AND BOBBY RAY WILLIAMS	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		
				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 COMPANY	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
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	POWER OF ATTORNEY	21	81
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	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

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45	FK053267	<p>Mapped as 03-006B-0029-0000 03-006B-0048-0000 03-006C-0022-0000</p> <p>Assessed as 03-006C-0022-0000 03-006C-0022-0001 03-006C-0058-0000 03-006C-0061-0000</p>	Q100387000 FEEHGII0066	EDWIN GASTON AND LAURA L. GASTON, HUSBAND; CLARK GASTON AND IDA GASTON, HIS WIFE; W. GASTON AND SUSAN GASTON, HIS WIFE; I. V. GASTON	RESERVE GAS COMPANY	NOT LESS THAN 1/8	71	318				
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	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 OF FARMOUT AGREEMENT	672	154				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	POWER OF ATTORNEY	21	81				
				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				
				19	FK053186	<p>03-006B-0013-0000 03-006B-0031-0000 03-006B-0032-0000 03-006B-0033-0000</p>	Q100920000	A. R. FRASHUER AND VICTORIA FRASHUER, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	68
								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	MERGER/NAME CHANGE	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 COMPANY	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				
21	<p>RECEIVED Office of Oil and Gas FK062191</p>	<p>03-006B-0034-0000 03-006B-0043-0000</p>	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				
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139				

WV Department of Environmental Protection

DEC 16 2020

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				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 AMD 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 MCCLUNG AND W. D. MCCLUNG, 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. FRASHUER 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
				FANNIE M. HUGHES; HOWARD G. HUGHES AND MYRL R. HUGHES, HIS WIFE; OLA OAKES AND FINLEY OAKES, HER HUSBAND; AUDREY H. KEYS AND C. C. KEYS, HER HUSBAND; MARIE WALKER AND L. J. WALKER, HER HUSBAND; FLODA HUGHES LAYMAN; EVADNEY HUGHES; JAMES A. HUGHES AND HAZEL D. HUGHES, HIS WIFE; C. B. MARTIN AND ANNA H. MARTIN, HIS WIFE; BEATRICE COTTRELL JONES AND H. E. JONES, HER HUSBAND; GLENOLA ROSENCRANCE AND K. K. ROSENCRANCE, HER HUSBAND; KATHRYN C. JEFFERSON AND AUL L. JEFFERSON, HER HUSBAND; VIRGINIA C. WILEY AND A. V. WILEY, HER HUSBAND; LOLA MARTIN, PAULINE WALSH AND MARTIN WALSH, HER HUSBAND; ALLEN HUGHES AND RUBY HUGHES, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	213	279
				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

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				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
23	FK062057	03-006B-0023-0000 03-006B-0022-0000	Q100500000	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				
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 03-006B-0022-0000	Q100691000	A. C. THRASH AND MARTHA D. THRASH, HIS WIFE; H. A. THRASH AND ETHEL V. THRASH, HIS WIFE; GERTIE LAWSON AND P. E. LAWSON, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	HARRISON 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.	ASSIGNMENT	1600	660				
			WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	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	FARMOUT AGREEMENT	LEWIS 734	558				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
				MARY POST DAVIS AND EVERETT W. DAVIS, HER HUSBAND; O. ROY TALMAN AND MARY L. TALLMAN, HIS WIFE; A. D. TALLMAN AND NATALIE TALLMAN, HIS WIFE; PEARL ANDERSON AND R. E. ANDERSON, HER HUSBAND; H. B. TALLMAN AND SOPHIE L. TALLMAN, HIS WIFE; W.H. TALLMAN AND FLORENCE TALLMAN, HIS WIFE, EDNA WARDEN AND W. W. WARDER, HER HUSBAND; MARY TALLMAN, SINGLE; CLARA R. TALLMAN, WIDOW; C. D. PAUGH, WIDOWER; C. W. PAUGH AND SALLIE PAUGH, HIS; MARY ALMA ATKINSON, SEPARATEDFROM HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	LEWIS 220	325
							HARRISON 775	241

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12	FK064253	20-0443-0006-0000 20-0443-0007-0000 20-0443-0008-0000 20-0443-0008-0001 20-0443-0018-0000 20-4403-0019-0000 20-0443-0020-0000 p/o 03-006B-0021-0002 p/o 03-006B-0021-0003	Q100298000	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	HARRISON 903 LEWIS 294	179 89				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	HARRISON 1136 LEWIS 425	250 127				
				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	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%)	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	HARRISON 1601 LEWIS 723	581 499				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	HARRISON 1621 LEWIS 734	962 558				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
				28	FK066058	20-0423-0024-0000	Q100563000	NELL ROMINE PIERCE, WIDOW; PARTHENA ROMINE, SINGLE; JAMES H. ROMINE AND MARIE ROMINE, HIS WIFE; LOXIE V. MCCLUNG AND WILBERT MCCLUNG, HER HUSBAND; ELMA F. MCCLUNG AND JUNIOR MCCLUNG, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	756	150
								HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136					250				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795				
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58					362				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522					33				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524					491				
DOMINION 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				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543					1235				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576					125				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584					942				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600					660				
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS									
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736					220				
5	FK066096	20-0423-0023-0000	Q100565000	W. H. COFFINDAFFER AND MAXIE COFFINDAFFER, HUSBAND AND WIFE; BERTHA GOLDSMITH, WIDOW; CLAUDIA RINEHART AND SIRE RINEHART, WIFE AND HUSBAND; WANDA MESSENGER AND ELMER MESSENGER, WIFE AND HUSBAND; DALE LIFE AND JONIE E. LIFE, HUSBAND AND WIFE; AND CLARICE BAILEY AND OSCAR A. BAILEY, WIFE AND HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	757	510				
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795				
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491				
				DOMINION 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				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235				

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				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
6	FK066169	20-0423-0013-0000	Q100568000	W. H. COFFINDAFFER AND MAXIE COFFINDAFFER, HIS WIFE; THE UNION NATIONAL BANK OF CLARKSBURG, GUARDIAN OF ROBERT L. COFFINDAFFER; THE UNION NATIONAL BANK OF CLARKSBURG, TRUSTEE FOR CLYDE C. COFFINDAFFER U/W OF ABRAM B. COFFINDAFFER; R. S. COFFINDAFFER AND BEULAH B. COFFINDAFFER, HIS WIFE; ELVA CURREY AND H.T CURREY, HER HUSBAND; BERTHA COFFINDAFFER, WIDOW; TAYLOR COFFINDAFFER AND VIRGINIA COFFINDAFFER, HIS WIFE; MARY LEE GIBSON AND CRAMER W. GIBSON, HER HUSBAND; TILLMAN F. WILLIAMS AND LUETTA WILLIAMS, HIS WIFE; C. Z. COFFINDAFFER AND PAULINE E. COFFINDAFFER, HIS WIFE; ALBERTA WILLIAM, SINGLE; JAMES L. RODGERS AND MARY L.RODGERS, HIS WIFE; JAMES R. RODGERS AND BETTYE MAE RODGERS, HIS WIFE; E. W. COFFINDAFFER AND LAURA E. COFFINDAFFER, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	762	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	FIRST AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1524	491
				DOMINION 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
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				40		20-0422-0036-0000 20-0423-0012-0000	Q101870000	LOXIE V. MCCLUNG AND WILBERT D. MCCLUNG, HER HUSBAND; ELMA F. MCCLUNG AND JUNIOR MCCLUNG, HER HUSBAND
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					660
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600					692

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

December 13, 2020

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

RE: Drilling Under Roads – Flesher 1212 N-3H
Freeman District, Lewis County
West Virginia

Dear Ms. Kees:

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

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

Date of Notice Certification: 12/13/2020

API No. 47- _____ - _____
Operator's Well No. Flesher 1212 N-9H
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>544290.0</u>
County: <u>Lewis</u>		Northing: <u>4330027.1</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>Middle West Fork Creek</u>		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	RECEIVED Office of Oil and Gas	<input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION	DEC 16 2020	<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE	WV Department of Environmental Protection	<input checked="" type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input checked="" type="checkbox"/> RECEIVED

Required Attachments:

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

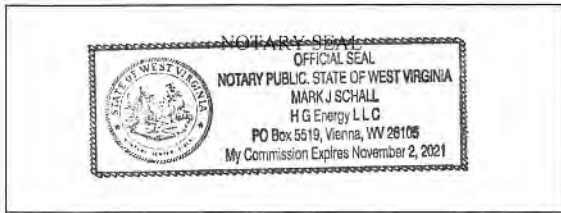
4704105712

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 13th day of December, 2020.
[Signature] Notary Public
My Commission Expires 11/2/2021

Oil and Gas Privacy Notice:

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

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WW-6A
(9-13)

API NO. 47-4704105712
OPERATOR WELL NO. Flesher 1212 N-1H to S-8H
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: 08/29/20 **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)
 Address: 5260 Dupont Road
Parkersburg, WV 26101
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

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

COAL OPERATOR
 Name: _____
 Address: _____

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

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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.

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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WW-6A
(8-13)

API NO. 47-4704105712
OPERATOR WELL NO. Flesher 1212 N-1H to S-8H
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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List of persons qualified to

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

APIN NO. 47-4105712
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 *Diane White*

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

Oil and Gas Privacy Notice:

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



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

Cassidy A. Boardman Notary Public

My Commission Expires 7/31/2022

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

Flesher 1212 N-1H to S-8H

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

Richard & Loretta Hayhurst
340 Cheyenne Drive
Weston, WV 26452

Fred Bailey
4853 Old Mill Road
Jane Lew, WV 26378

Mary Elen Nicholson
1149 Millstone Road
Weston, WV 26452

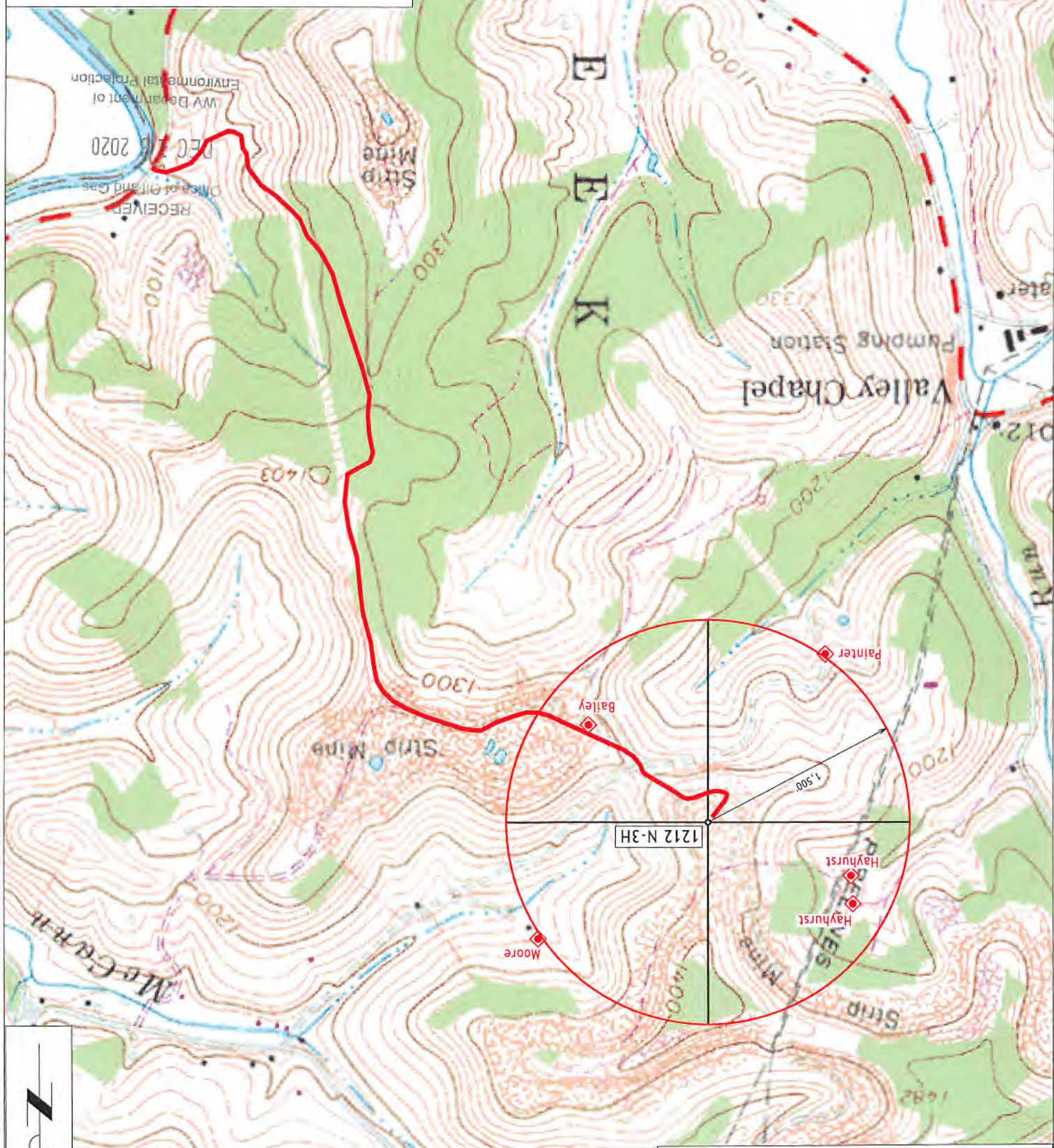
Surface Owner (s) (Road and/or Other Disturbance)

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

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Denotes Possible Water Supply Source to be Tested

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



SUBJECT WELL
Flesher 1212 N-3H



4704105712
McGarrick Run

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 11/17/2020 **Date Permit Application Filed:** 11/25/2020

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): HG Energy was not noticed

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

Name: _____
Address: _____

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 544296.1
County: Lewis Northing: 4330037.4
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 Diane White
Facsimile: 304-863-3172

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

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 11/17/2020 **Date Permit Application Filed:** 11/25/2020

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s) * HG Energy was not noticed ✓
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>HG Energy II Appalachia LLC</u>	Name: _____
Address: <u>5260 Dupont Road</u>	Address: _____
<u>Parkersburg, WV 26101</u>	_____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>544296.1</u>
County: <u>Lewis</u>	Northing: <u>4330037.4</u>
District: <u>Freemans Creek</u>	Public Road Access: <u>Kincheloe Rd / Valley Chapel Road</u>
Quadrangle: <u>Weston 7.5'</u>	Generally used farm name: <u>Flesher</u>
Watershed: <u>McCann Run</u>	

This Notice Shall Include:

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

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

Oil and Gas Privacy Notice:

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

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HG Energy II Appalachia, LLC**List of Frac Additives by Chemical Name and CAS #
Flesher 1212 Well Pad (N-1H to N-4H, N-9H, 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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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-3H 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

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

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HG Energy II Appalachia, LLC

**List of Frac Additives by Chemical Name and CAS #
Flesher 1212 Well Pad (N-1H to N-4H, N-9H, 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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1212 Well Site

Site Design, Construction Plan, & Erosion and Sediment Control Plans
 HG Energy LLC
 Lewis County
 Freemans Creek District
 Latitude 39.11818424°
 Longitude -80.48745931°
 Middle West Fork River Watershed

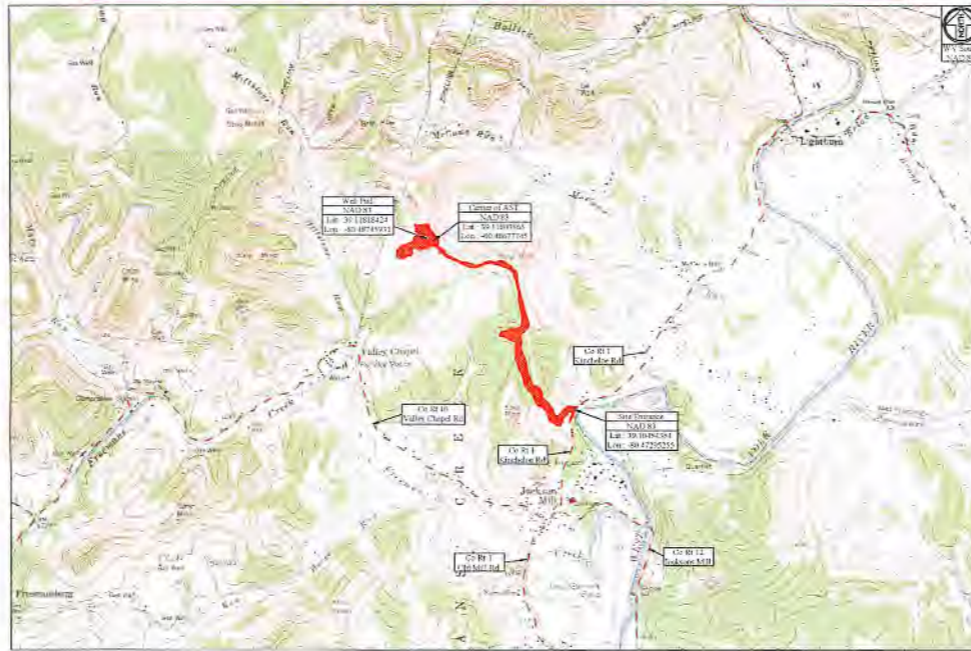
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Pertinent Site Information
 1212 Well Site
 Emergency Number: 304-269-8235
 Freemans Creek District, Lewis County, WV
 Watershed: Middle West Fork River Watershed
 Site 911 Address:
 HG Energy Contact Number: 304-420-1100

4704105712

Exhibit A: Final Design: Issue for Permitting

Site Location	Center of Well Pad	Center of ANI Storage W Area	Center of Storage Area #1	Center of Storage Area #2
WV-S-NAD 83 N 20922.17 WV-S-NAD 84 E 21862.99 WV-S-NAD 27 S 71027.97 WV-S-NAD 27 E 21862.92 Low NAD 83: 39 1610181 Low NAD 83: 40 2729244 Low NAD 27: 30 1561938 Low NAD 27: 40 2714822 UTM 17 NAD 83 N: 423243.52 UTM 17 NAD 83 E: 345116.97 Elev: 1332.21	WV-S-NAD 83 N 21176.29 WV-S-NAD 83 E 21107.97 WV-S-NAD 27 S 71107.97 WV-S-NAD 27 E 21862.92 Low NAD 83: 39 1610181 Low NAD 27: 30 1561938 Low NAD 27: 40 2714822 UTM 17 NAD 83 N: 423243.52 UTM 17 NAD 83 E: 345116.97 Elev: 1332.21	WV-S-NAD 83 N 21176.29 WV-S-NAD 83 E 21107.97 WV-S-NAD 27 S 71107.97 WV-S-NAD 27 E 21862.92 Low NAD 83: 39 1610181 Low NAD 27: 30 1561938 Low NAD 27: 40 2714822 UTM 17 NAD 83 N: 423243.52 UTM 17 NAD 83 E: 345116.97 Elev: 1332.21	WV-S-NAD 83 N 21176.29 WV-S-NAD 83 E 21107.97 WV-S-NAD 27 S 71107.97 WV-S-NAD 27 E 21862.92 Low NAD 83: 39 1610181 Low NAD 27: 30 1561938 Low NAD 27: 40 2714822 UTM 17 NAD 83 N: 423243.52 UTM 17 NAD 83 E: 345116.97 Elev: 1332.21	WV-S-NAD 83 N 21176.29 WV-S-NAD 83 E 21107.97 WV-S-NAD 27 S 71107.97 WV-S-NAD 27 E 21862.92 Low NAD 83: 39 1610181 Low NAD 27: 30 1561938 Low NAD 27: 40 2714822 UTM 17 NAD 83 N: 423243.52 UTM 17 NAD 83 E: 345116.97 Elev: 1332.21



Property Owner Information - 1212 Well Site
 Freemans Creek District - Lewis County

Owner	TM	W	E	S	Area	Area	Area	Area	Area	Area
Maple Hill Estate	20	10	10	10	20	10	10	10	10	10
Paul Leake	20	10	10	10	20	10	10	10	10	10
Paul Leake	20	10	10	10	20	10	10	10	10	10
Maple Hill Estate	20	10	10	10	20	10	10	10	10	10
WV DEPT OF ENVIRONMENTAL PROTECTION	20	10	10	10	20	10	10	10	10	10

Access Road

Surface Area	1.5' Tread	1.5' Tread	1.5' Tread	1.5' Tread
Clay Lined Road	2.56	2.56	2.56	2.56
Gravel Road	2.56	2.56	2.56	2.56
Gravel Road	2.56	2.56	2.56	2.56
Gravel Road	2.56	2.56	2.56	2.56
Gravel Road	2.56	2.56	2.56	2.56

Disturbed Area

Well Pad Construction	2.56 AC
Storage Area Construction	1.11 AC
Access Road Construction	10.34 AC
Other Disturbance	2.40 AC
Additional Items	17.72 AC
Total Disturbance	34.13 AC
Total Wetland Area Disturbed	11.87 AC
Total Wetland Area to be Avoided	22.26 AC

1212 Well Site Quantities

Location	Vol (cu yd)	Vol (cu yd)	Vol (cu yd)	Vol (cu yd)	Vol (cu yd)	Vol (cu yd)	Vol (cu yd)
Well Pad	4,282.48	4,282.48	4,282.48	4,282.48	4,282.48	4,282.48	4,282.48
Storage Area #1	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14
Storage Area #2	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14
Access Road #1	2,560.00	2,560.00	2,560.00	2,560.00	2,560.00	2,560.00	2,560.00
Access Road #2	2,560.00	2,560.00	2,560.00	2,560.00	2,560.00	2,560.00	2,560.00
Other Disturbance	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14	1,168.14
Total	13,307.30	13,307.30	13,307.30	13,307.30	13,307.30	13,307.30	13,307.30

Stream Impact (Linear Feet)

Stream	Linear Feet	Linear Feet	Linear Feet	Linear Feet	Linear Feet
Stream 1	17.19	17.19	17.19	17.19	17.19
Stream 2	17.19	17.19	17.19	17.19	17.19
Stream 3	17.19	17.19	17.19	17.19	17.19
Stream 4	17.19	17.19	17.19	17.19	17.19
Stream 5	17.19	17.19	17.19	17.19	17.19
Total Stream Impact	85.95	85.95	85.95	85.95	85.95

Wetland Impact (Square Feet)

Wetland	Area (sq ft)	Area (sq ft)	Area (sq ft)	Area (sq ft)
Wetland 1	2,560	2,560	2,560	2,560
Wetland 2	2,560	2,560	2,560	2,560
Wetland 3	2,560	2,560	2,560	2,560
Wetland 4	2,560	2,560	2,560	2,560
Wetland 5	2,560	2,560	2,560	2,560
Total Wetland Impact	12,800	12,800	12,800	12,800

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 11/17/2020

Project Contacts

HG Energy LLC
 5300 Chapel Street
 Freedom, WV 26031
 PH: 304-420-1100
 Fax: 304-463-3175

Survey and Boundary
 Kenneth Kelly
 304-338-6100
 Zedekiah Sautter
 304-338-6100

Environment
 Wetland Determination is provided by WVDEP Environmental
 dated October 15, 2020.

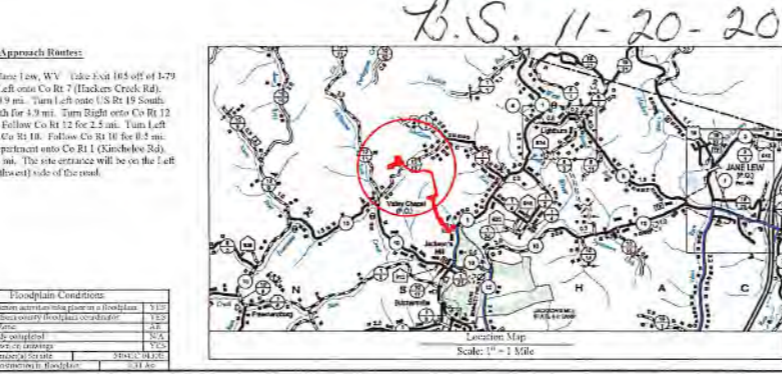
MISS UTILITY OF WEST VIRGINIA
 1-800-2-2-6-8-8

811
 Know what's below.
 Call before you dig.

Approach Routes:
 From I-79 North near Jane Lew, WV. Take Exit 165 off of I-79 (Jane Lew). Turn Left onto Co Rt 7 (Hackers Creek Rd). Follow Co Rt 7 for 0.9 mi. Turn Left onto US Rt 19 South. Follow US Rt 19 South for 1.3 mi. Turn Right onto Co Rt 12 (Jacksons Mill Rd). Follow Co Rt 12 for 2.5 mi. Turn Left (across bridge) onto Co Rt 11. Follow Co Rt 11 for 0.5 mi. Turn Right at Fire Department onto Co Rt 1 (Kingshole Rd). Follow Co Rt 1 for 0.5 mi. The site entrance will be on the Left (Northwest) side of the road.

Floodplain Conditions

Division	Condition	Value
Division 1	Division 1	1.00
Division 2	Division 2	1.00
Division 3	Division 3	1.00
Division 4	Division 4	1.00
Division 5	Division 5	1.00
Division 6	Division 6	1.00
Division 7	Division 7	1.00
Division 8	Division 8	1.00
Division 9	Division 9	1.00
Division 10	Division 10	1.00
Division 11	Division 11	1.00
Division 12	Division 12	1.00
Division 13	Division 13	1.00
Division 14	Division 14	1.00
Division 15	Division 15	1.00
Division 16	Division 16	1.00
Division 17	Division 17	1.00
Division 18	Division 18	1.00
Division 19	Division 19	1.00
Division 20	Division 20	1.00
Division 21	Division 21	1.00
Division 22	Division 22	1.00
Division 23	Division 23	1.00
Division 24	Division 24	1.00
Division 25	Division 25	1.00
Division 26	Division 26	1.00
Division 27	Division 27	1.00
Division 28	Division 28	1.00
Division 29	Division 29	1.00
Division 30	Division 30	1.00
Division 31	Division 31	1.00
Division 32	Division 32	1.00
Division 33	Division 33	1.00
Division 34	Division 34	1.00
Division 35	Division 35	1.00
Division 36	Division 36	1.00
Division 37	Division 37	1.00
Division 38	Division 38	1.00
Division 39	Division 39	1.00
Division 40	Division 40	1.00
Division 41	Division 41	1.00
Division 42	Division 42	1.00
Division 43	Division 43	1.00
Division 44	Division 44	1.00
Division 45	Division 45	1.00
Division 46	Division 46	1.00
Division 47	Division 47	1.00
Division 48	Division 48	1.00
Division 49	Division 49	1.00
Division 50	Division 50	1.00



Wetland Location Restrictions:

All Wetland Determinations comply with the following restrictions:

- "200" from an existing well or abandoned spring used for domestic water supply.
- "250" from an existing or future gas well that is 1,500 SF or less in primary or secondary well completion of the pad.
- "500" from the center of a disturbance to a naturally regenerating forest stream.
- "1,000" from the center of a disturbance to a public water supply.

(WV) Location Restrictions of WV Code 22-6-6-12.

Design Certification:

The design, construction, and maintenance of this project shall be in accordance with the provisions of the WV Code 22-6-6-12 and the WV Code 22-6-6-13. The design shall be prepared by a registered professional engineer in the State of West Virginia. The design shall be prepared by a registered professional engineer in the State of West Virginia. The design shall be prepared by a registered professional engineer in the State of West Virginia.

Professional Engineer:
 Zachary C. Sumwalt
 Registered Professional Engineer
 State of West Virginia
 No. 2214
 Date: 11/23/2020

Sheet

Sheet	Description
1	Cover Sheet
M1	Schedule of Quantities
M1-M2	Site Map
2	Pre-Construction Site Conditions
3	Site Soil Map
4	Clearing Exhibit
5	Overall Plan View
6-12	F&S Plan View
13	Toe Key Exhibit
14-20	Plan Views
21	Cross Sections - Well Pad
22	Cross Sections - Singing Areas
23-27	Cross Sections - Access Road
G1-G2	Geotechnical Exhibit
L1	Landowner Disturbed Area Exhibit
S1	Site Reclamation
M1-M2	Production Exhibit
D1-D2	Erosion and Sediment Control Details
R1	Access Road Details
P1	Pad Details



THIS DOCUMENT PREPARED FOR HG ENERGY LLC



Cover Sheet
 1212 Well Site
 Freemans Creek District
 Lewis County, WV

Date: 10/23/2020
 Scale: As Shown
 Designed By: ZS
 VLE No.
 Sheet 1 of 27



1212 Well Site
Site Design, Construction Plan, &
Erosion and Sediment Control Plans
HG Energy LLC
Lewis County
Freemans Creek District
Latitude 39.11818424°
Longitude -80.48745931°
Middle West Fork River Watershed

Pertinent Site Information
1212 Well Site
Emergency Number: 304-269-8235
Freemans Creek District, Lewis County, WV
Watershed: Middle West Fork River Watershed
Site 911 Address:
HG Energy Contact Number: 304-420-1100

Table with 10 columns: Well ID, Well Type, Well Depth, Well Diameter, Well Annular Seal, Well Completion, Well Status, Well Location, Well Construction, Well Construction Date.

Exhibit A: Final Design: Issue for Permitting

Table with 5 columns: Well ID, Well Type, Well Depth, Well Diameter, Well Annular Seal, Well Completion, Well Status, Well Location, Well Construction, Well Construction Date.

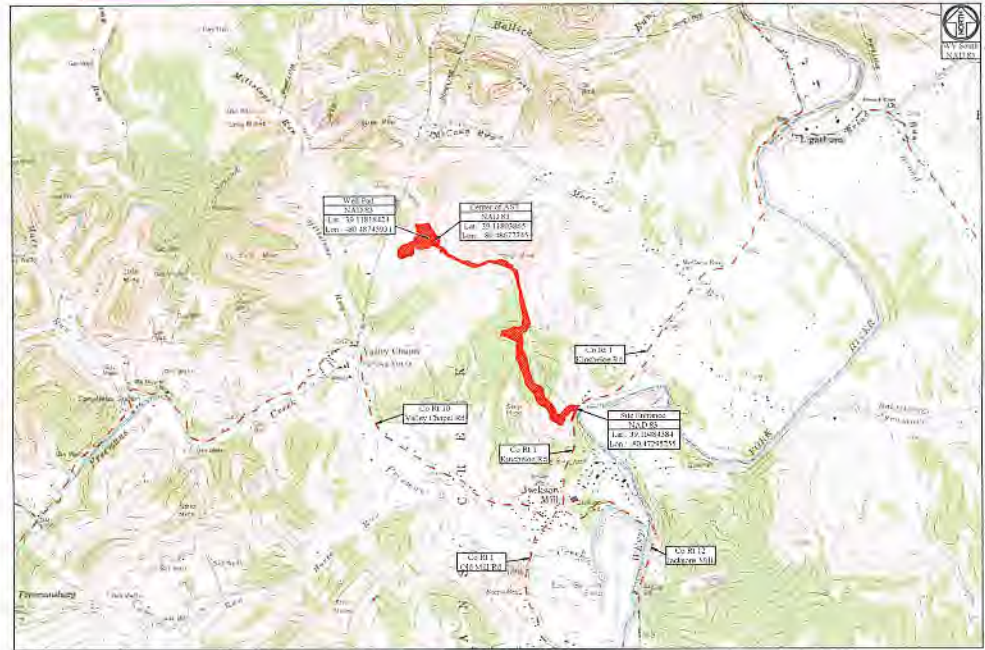


Table with 4 columns: Access Road, Well Pad, Well Annular Seal, Well Completion.

Table with 2 columns: Disturbed Area, Additional Information.

Table with 3 columns: Description, Quantity, Units.

Table with 4 columns: Stream and Impact Class, Channel Length, Stream Flow, Stream Velocity.

Table with 4 columns: Wetland Type, Wetland Area, Wetland Depth, Wetland Slope.

Table with 5 columns: Well ID, Well Type, Well Depth, Well Diameter, Well Annular Seal, Well Completion, Well Status, Well Location, Well Construction, Well Construction Date.

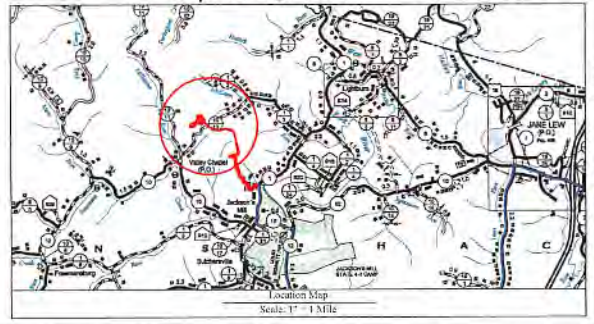


APPROVED WVDEP OOG 11/17/2020

Project Contacts
HG Energy LLC
Lead Engineer: Kenneth Kelly
Survey and Plotting: Gateway Surveying

RECEIVED Office of Oil and Gas DEC 16 2020 WV Department of Environmental Protection

Approach Routes:
From I-79 North near Jane Lew, WV, Take Exit 105 off of I-79 (Jane Lew), Turn Left onto Co Rt 7 (Hackers Creek Rd), Follow Co Rt 7 for 0.9 mi. Turn Left onto US Rt 19 South, Follow US Rt 19 South for 4.9 mi. Turn Right onto Co Rt 12 (Jackson Mill Rd), Follow Co Rt 12 for 2.5 mi. Turn Left (across bridge) onto Co Rt 10, Follow Co Rt 10 for 0.5 mi. Turn Right at the department onto Co Rt 1 (Kinbelee Rd), Follow Co Rt 1 for 0.3 mi. The site entrance will be on the Left (Northwest) side of the road.



Well Location Restrictions:
All well construction activities will be in accordance with the following restrictions:
*20' Area of Control: well or development shall be located within a 20' Area of Control measured from the center of the well.
*10' from the edge of disturbance to any existing or proposed stream.
*10' from the edge of disturbance to any existing or proposed stream.

Table with 2 columns: Sheet, Description.

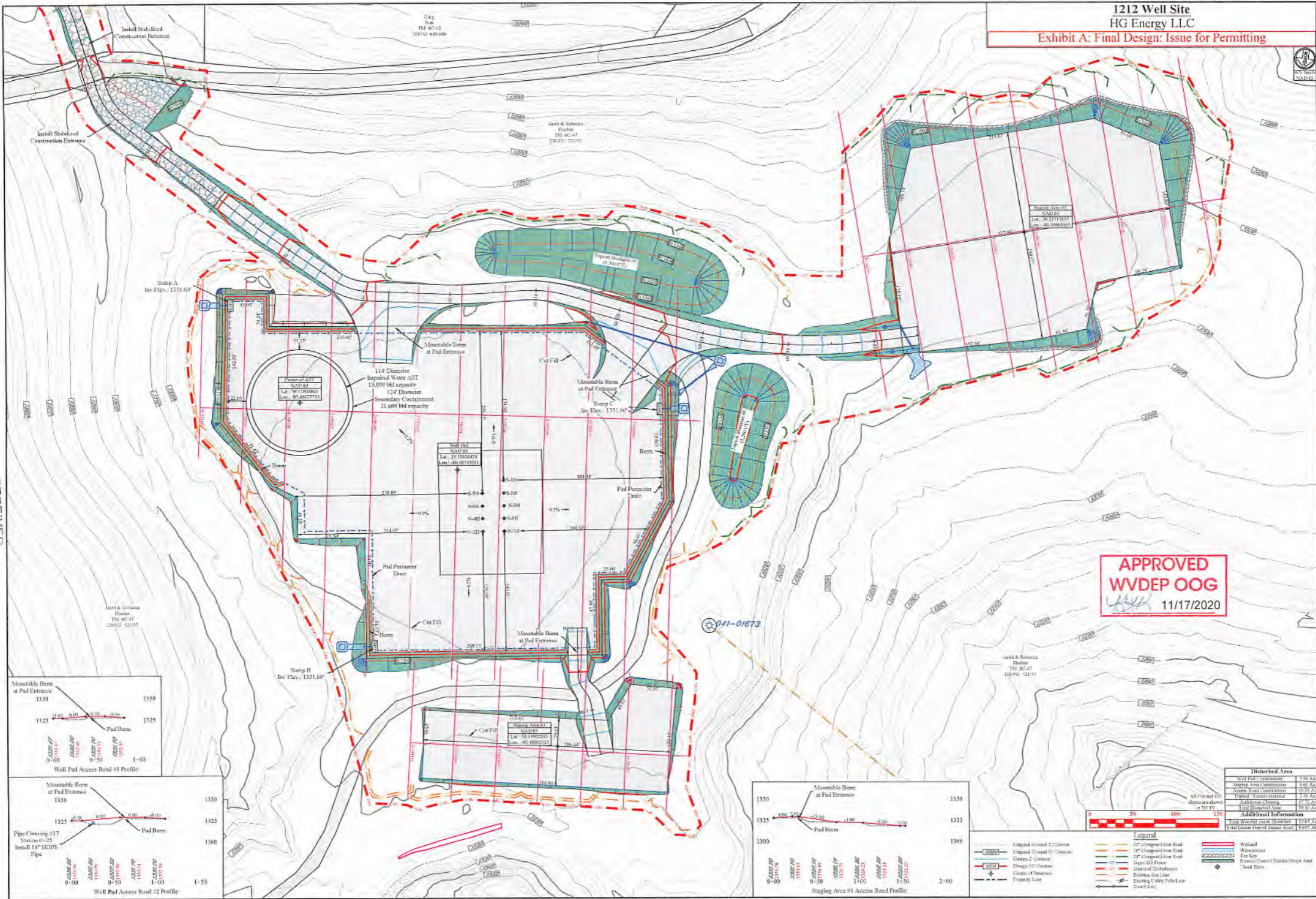
MISS UTILITY OF WEST VIRGINIA
7-800-245-4188
Know what's below. Call before you dig.



Kah Surveying

1212 Well Site
Freemans Creek District
Lewis County, WV

Date: 10/23/2020
Scale: As Shown
Designed By: ZS
File No.
Sheet 1 of 77



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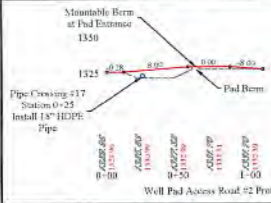
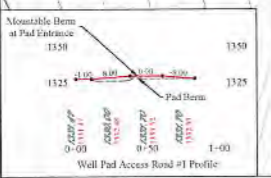
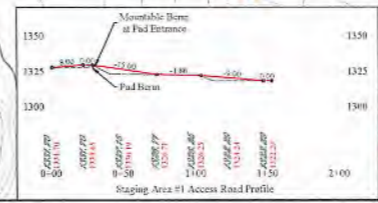
THIS DOCUMENT PREPARED FOR HG ENERGY LLC



Site Plan
1212 Well Site
Fremans Creek District
Lewis County, WV

Disturbed Area	
Well Pad Construction	1.96 AC
Staging Area Construction	4.81 AC
Access Road Construction	11.11 AC
Utility Lines Material	2.38 AC
Additional Clearing	17.72 AC
Total Disturbed Area	38.00 AC
Additional Information	
Total Wooded Area Disturbed	17.89 AC
Total Linear Feet of Access Road	8,500.00

Legend		
Original Ground Contour	12" Compacted Fine Sand	Wetland
Original Ground to Contour	18" Compacted Fine Sand	Watercourse
Design 2 Contour	24" Compacted Fine Sand	Fence
Design 1st Contour	30" Compacted Fine Sand	Excavated Channel/Blanket/Stone Area
Center of Structure	Existing Gas Lines	Check Dam
Property Line	Existing Utility Protection	
	Drain Pipe	



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DEC 16 2020
WV Department of
Environmental Protection