



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

Monday, September 30, 2024
WELL WORK PERMIT
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for VAN WIE 1221 N-6H
47-041-05765-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, Chief, is written over a faint background of a signature strip.

James A. Martin
Chief

Operator's Well Number: VAN WIE 1221 N-6H
Farm Name: HG ENERGY II APPALACHIA
U.S. WELL NUMBER: 47-041-05765-00-00
Horizontal 6A New Drill
Date Issued: 9/30/2024

Promoting a healthy environment.

10/04/2024

PERMIT CONDITIONS

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

CONDITIONS

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. 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. Also, 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.
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.

10/04/2024

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

1) Well Operator: HG Energy II Appalachia, LLC

<u>494519932</u>	<u>Lewis</u>	<u>Freeman</u>	<u>Vadis 7.5'</u>
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Van Wie 1221 N-6H Well Pad Name: Van Wie 1221

3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: CR 11/3 aka Straight Run Road

4) Elevation, current ground: 1256' Elevation, proposed post-construction: 1251.7'

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 7002' / 7049' and 47' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7,035' ✓

9) Formation at Total Vertical Depth: Marcellus ✓

10) Proposed Total Measured Depth: 24,475' ✓

11) Proposed Horizontal Leg Length: 15,448' ✓

12) Approximate Fresh Water Strata Depths: 150', 181', 826' ✓

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-017-02906, 2480, 4233,) ✓

14) Approximate Saltwater Depths: NA

15) Approximate Coal Seam Depths: 220' - 225', 428'-438', 495'-501' (Surface casing is being extended to cover the coal in the DTI Field)

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

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

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

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WW-6B
(04/15)

4704-105765
 API NO. 47-
 OPERATOR WELL NO. Van Wie 1221 N-6H
 Well Pad Name: Van Wie 1221

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' ✓	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1225'	1225' ✓	40% Excess, CTS ✓
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2760'	2760' ✓	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N/L-80 BTC	40	6450'	6450' ✓	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	24475'	24475' ✓	20% Excess Tail, CTS
Tubing							
Liners							

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
 DN: CN = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov, C = AD O = WVDEP OUI = Oil and Gas
 Date: 2024.08.15 11:20:27 -0400

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	5750		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 1.00
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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 7035'. Drill horizontal leg to estimated 15,448' lateral length, 24,475' 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): 24.95 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.53 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 - Vertical - Run 1 spiral centralizer every 5 joints from the top of the curve to surface, Curve - 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 - *15.6 ppg PNE-1 + 3% bwoc CaCl40% ExcessYield=1.20 / CTS*
Intermediate 1 - **** Storage String *** CTS ***15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VDWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D085 1.5 lb per bbl CemNET* - 60% Excess15.9 ppg Tail - Yield 1.17 - D696 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOC* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess*
Intermediate 2 - *Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS*
Production - *Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% ExcessLead Yield=1.19Tail Yield=1.94CTS*

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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*Note: Attach additional sheets as needed.

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*** Storage String *** CTS ***
 15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
 B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB
 Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess
 15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
 B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam /
 D801 - 0.03 gal / sack Retarder - 0% Excess

1221 N-6H
 Marcellus Shale Horizontal
 Lewis County, WV



Ground Elevation		1221 N-6H SHL					14197376.01N 1734530.17E			
Azm		1221 N-6H LP					14198866.97N 1737902.18E			
WELLBORE DIAGRAM		1221 N-6H BHL					14213425.94N 1732767.69E			
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	Coal	740	746	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	
		Fresh Water Protection	0	1225						
17.5"	13-3/8" 68# J-55 BTC	Little Lime	2167	2187	AIR / KCL Salt Polymer	See above (LEFT) for Storage String Cement Blend to Meet DTI Requirements for Gas Storage Field Isolation	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	
		Big Lime	2216	2265						
		Injun / Gantz (Storage)	2265 / 2597	2361 / 2647						
		Intermediate 1	0	2760						
12.25"	9-5/8" 40# N / L-80 BTC	Thirty Foot	2789	2799	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=5750 psi	
		Gordon	2837	2915						
		5th Sand	3066	3102						
		Bayard	3161	3174						
		Speechley	3634	3666						
		Benson	5038	5072						
		Alexander	5324	5444						
Intermediate 2	0	TVD: 5675' MD: 6450' Inc: 48 deg.								
8.75"	8.5" Curve 5-1/2" 23# P-110 HP TXP / W461				AIR / 9.0ppg SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.	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	
Rhinestreet		6303	6591							
Cashaqua		6591	6736							
Middlesex		6736	6815							
West River		6815	6884							
Burkett		6884	6925							
Tully Limestone		6925	6952							
Hamilton		6952	7002							
Marcellus		7002	7049							
TMD / TVD (Production)		24475	7035							
Onondaga		7049								

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LP @ 7035' TVD / 9027' MD
 8.5" Hole - Cemented Long String
 5-1/2" 23# P-110 HP TXP / W461
 +/-15448' ft Lateral
 TD @ +/-7035' TVD +/-24475' MD

4704105765

HG Energy II Appalachia, LLC
Van Wie 1221 Well Pad (N-1H to S-12H)
Cement Additives

Material Name	Material Type	Material Description	CAS #																		
Premium NE-1	Portland Cement	Premium NE-1 is a portland cement with early compressive strength properties.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Portland cement</td> <td>90 - 100</td> <td>65997-15-1</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> <tr> <td>Magnesium oxide</td> <td>1 - 5</td> <td>1309-48-4</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>0.1 - 1</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Portland cement	90 - 100	65997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>bentonite</td> <td>90 - 100</td> <td>1302-78-9</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-9	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
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Calcium Chloride	Accelerator	A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>90 - 100</td> <td>10043-52-4</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
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Calcium chloride	90 - 100	10043-52-4																			
Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
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Tributyl phosphate	90 - 100	126-73-8																			
Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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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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Calcium magnesium oxide	90 - 100	37247-91-9																			
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></td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt		Trade secret.												
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Organic acid salt		Trade secret.																			
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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Alkylarylsulfonate amine salt	1 - 5	Trade secret.																			
Polyoxyalkylenes	0.1 - 1	Trade secret.																			

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10/04/2024

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Van Wie 1221 N-6H

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) Fink Creek Quadrangle Vadis 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 site)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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

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

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

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

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

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

-Landfill or offsite name/permit number? See Attached

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

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

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

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

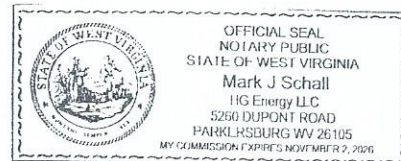
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Environmental Protection

Subscribed and sworn before me this 13th day of June, 2024

[Signature] Notary Public

My commission expires 11/2/2026



10/04/2024

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 (ECSR)
3237 US Highway 19
Cochranon, PA 16314
814-425-7773

Disposal Locations:

Apex Environmental, LLC Permit # 06-08438
11 County Road 7B
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 #R90-079001 05-2010
4301 Sycamore Ridge Road
Hurricane, WV 25526
304-562-2611

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

Max Environmental Technologies, Inc. Facility Permit # PAD05087072 / 301359
200 Max Drive
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-103-87 / WV 0109029
Rd 2 Box 410
Colliers, WV 26035
304-748-0014

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

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

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

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions
 11942 Veterans Memorial Highway
 Masontown, WV 26542

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

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

Disposal Locations:

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

Solidification/Incineration
 Soil Remediation, Inc. Permit # 02-20753
 6065 Arrel-Smith Road
 Lowellville, OH 44436
 330-586-6825

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 # 3882
 300 Cherrington Pkwy, Suite 200
 Coraopolis, PA 15108
 412-829-7275

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

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

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

Adams #3 (Buckeye Brine, LLC)
Permit # 34-031-2-7241-00-00
2530 Exposition, Suite 117
Austin, TX 78708
512-478-6545

Mozana #1 Well (SWIW # 18)
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 Charrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7275

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

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

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

US Steele 11385
Permit # 47-001-00561
200 Evergreen Drive
Waynesburg, PA 15780
304-323-6568

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

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Form WW-9

Operator's Well No. Van Wie 1221 N-6H

HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 51.82 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

Maintain E&S controls through the drilling and completion process

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Kenneth Greynolds
Digitally signed by: Kenneth Greynolds
DN: CN = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OUI = Oil and Gas
Date: 2024.08.16 11:23:37 -0400

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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AUG 26 2024

Title: Oil & Gas Inspector

Date: _____
WV Department of Environmental Protection

Field Reviewed? () Yes () No

10/04/2024

HG Energy II Appalachia, LLC

Site Safety Plan

Van Wie 1221 Well Pad
2891 Straight Run Road, Alum Bridge
Doddridge County, WV 26321

January 2024: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

Parkersburg, WV 26101

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Environmental Protection

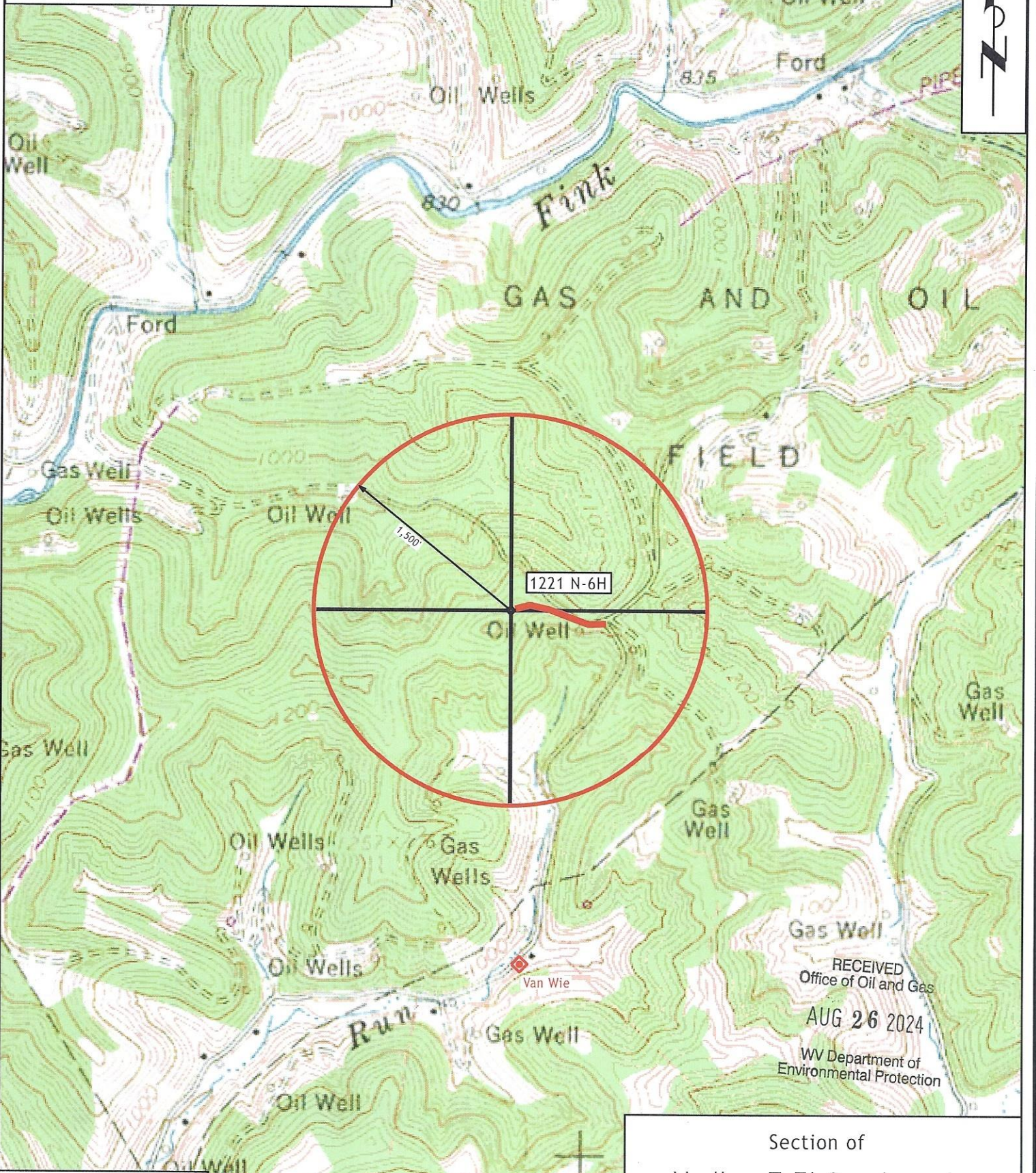
Kenneth Greynolds

Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds anai = Kenneth L.
Greynolds@wv.gov C = AD O = WVDEP OJ = Oil and
Gas
Date: 2024.08.16 11:25:55 -0400

10/04/2024

4704105765

SUBJECT WELL
Van Wie 1221 N-6H



Denotes Possible Water Supply Source to be Tested

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

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2,212' to Bottom Hole

508' to Top Hole

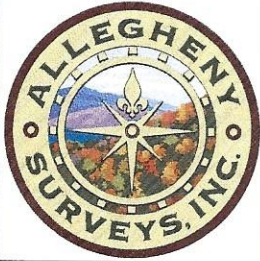
TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 10 - 00

TOP HOLE LONGITUDE 80 - 40 - 00
BTM HOLE LONGITUDE 80 - 40 - 00

10,963' to Top Hole

10,077' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Van Wie 1221 N-6H



Page 1 of 2

Page 2 Match Line

Stone w/3
notches on
top of knob

5/8" Rebar w/cap

2" Iron Pipe

500' Buffer

47-041-01328

47-041-02747

47-041-05676

5/8" Rebar w/cap

Sand Fork

Doddridge County
Lewis County

2" Iron Pipe

Large Rock

Leading
Creek

47-041-02657

47-041-01155

47-041-02660

47-041-02809

47-041-01176

47-041-01176

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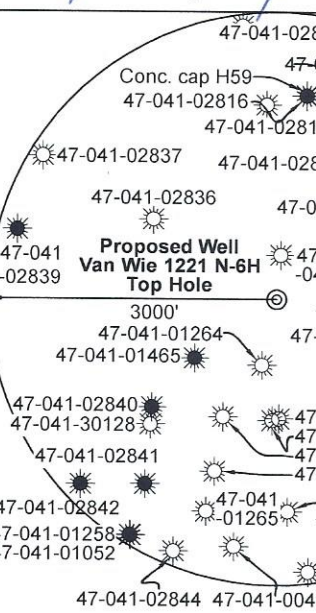
47-041-01176

47-041-01176

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

Dwayne D. Matheny

Dwayne D. Matheny, P.S. 2070



Note: 0 water wells, 0 cistern, and 0 pond were 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.

Tag	Bearing	Dist.	Description
L1	N 73°05' E	2,961.3'	5/8" Iron rebar
L2	S 75°33' E	2,821.5'	47-041-02839
L3	S 62°25' E	2,494.6'	5/8" Iron rebar
L4	S 29°35' W	1,617.6'	47-041-02809
L5	N 66°09' E	3,686.9'	Landing Point

FILE NO: 170-12-30-FC-22
DRAWING NO: Van Wie 1221 N-6H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: July 8 20 24
OPERATOR'S WELL NO. Van Wie 1221 N-6H
API WELL NO
47 - 041 - 05765
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,251.77' WATERSHED: Fink Creek QUADRANGLE: Vadis
DISTRICT: Freemans Creek COUNTY: Lewis

SURFACE OWNER: HG Energy II Appalachia, LLC, et al ACREAGE: 131.85
ROYALTY OWNER: Joseph Krenn, et al LEASE NO: ACREAGE: 245

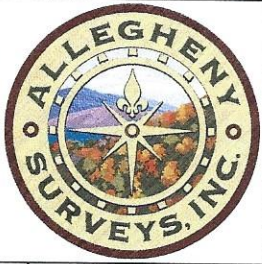
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,035' TVD
24,475' MD

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

10/04/2024

HG Energy II Appalachia, LLC
Well No. Van Wie 1221 N-6H

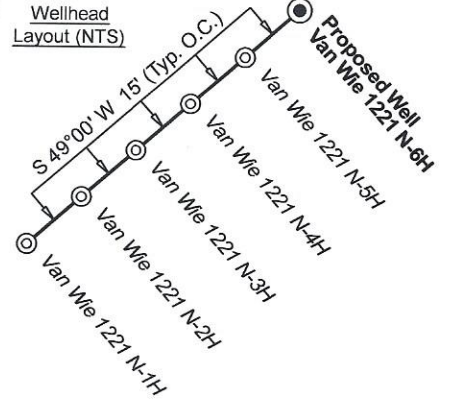


Page 2 of 2

Legend

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

Wellhead
Layout (NTS)



Well Location References
Not to Scale



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

Notes: Well No. Van Wie 1221 N-6H
WVCS 1927, North Zone
Top Hole Coordinates
Lat: 39°05'41.60"
Lon: 80°40'06.45"
Landing Point Coordinates
Lat: 39°05'56.22"
Lon: 80°39'23.59"
Bottom Hole Coordinates
Lat: 39°08'20.36"
Lon: 80°40'28.08"

UTM Zone 17, NAD 1983
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes: Well No. Van Wie 1221 N-6H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,197,376.01'
E: 1,734,530.17'
Landing Point Coordinates
N: 14,198,866.97'
E: 1,737,902.18'
Bottom Hole Coordinates
N: 14,213,425.94'
E: 1,732,767.69'

Notes: Well No. Van Wie 1221 N-6H
UTM NAD 1983 (Meters)
Top Hole Coordinates
N: 4,327,368.863m
E: 528,685.853m
Landing Point Coordinates
N: 4,327,823.308m
E: 529,713.644m
Bottom Hole Coordinates
N: 4,332,260.891m
E: 528,148.648m

ID	Lease
1	J.C. Starcher & A.C. Starcher
2	HG Energy II Appalachia, LLC
3	Joseph Krenn, et ux
16	William Walsh
17	Frank J. Maxwell, et ux, et al
18	Lorena M. Fahey, et vir, et al
19	C.E. Lawhead, et ux, et al
20	Leeman Maxwell, et al
21	Dennis Conry & Maggie Conry
22	Virginia Trimble, et al
25	Emma Droppleman, et al
28	R.A. Droppleman, et ux, et al

Lewis Co. (Freemans Creek Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	2D / 3	HG Energy II Appalachia, LLC	800 / 637	131.85
2	2D / 29	Anthony S. & Dawn H. VanWie	732 / 622	26.63
3	2D / 30	Anthony S. & Dawn H. VanWie	732 / 622	19.00
4	2D / 37	Jacob R. Straley Heirs	728 / 53	97.00
5	2D / 45	Matthew D. & Linda S. Richards	553 / 117	54.00
6	2D / 3.1	HG Energy II Appalachia, LLC	800 / 637	20.00
7	2D / 38	William J. & Ann McCutchan	793 / 173	26.96
8	2D / 40	Judith A. Rioch	403 / 270	63.89
9	2D / 42	Frances McCutchan, et al	726 / 561	124.30
10	2C / 7	James R. & Sheila A. Gum, II	721 / 350	350.78
11	2C / 9	William & Anne McCutchan	683 / 426	46.04
12	2C / 10	William & Anne McCutchan	683 / 426	1.04
13	2C / 8	Frances McCutchan	726 / 561	9.00
14	2C / 12	Frances McCutchan, et al	726 / 561	159.75
15	2C / 11	Robert E. & Joyce E. McCutchan	775 / 930	91.14
16	2C / 13	Jenny E. Dropplemann, et al	740 / 25	97.00
17	2C / 14	Jenny E. Dropplemann, et al	740 / 25	16.00
18	2C / 15	Jenny E. Dropplemann, et al	740 / 25	107.25
19	2C / 27	Dorothy K. Downey & Frank A. Altomare, Jr	418 / 615	90.90
Doddridge Co. (Cove Dist.)				
No.	TM / Par	Owner	Bk / Pg	Ac.
20	10 / 15	Scott Flanagan, et al	W44 / 594	98.44
21	10 / 15.1	Scott Flanagan, et al	239 / 591	101.56
22	6 / 11.1	Florence A. Adams	W103 / 448	102.00
23	7 / 2	Florence A. Adams	W103 / 448	292.87

FILE NO: 170-12-30-FC-22
DRAWING NO: Van Wie 1221 N-6H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: July 8 20 24
OPERATOR'S WELL NO. Van Wie 1221 N-6H
API WELL NO
47 — 041 — 05765
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,251.77' WATERSHED: Fink Creek QUADRANGLE: Vadis
DISTRICT: Freemans Creek COUNTY: ~~Wayne~~ **10/04/2024**
SURFACE OWNER: HG Energy II Appalachia, LLC, et al ACREAGE: 131.85
ROYALTY OWNER: Joseph Krenn, et al LEASE NO: ACREAGE: 245
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,035' TVD 24,475' MD

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

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

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

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

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

****See Attached Sheets****

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AUG 26 2024
WV Department of
Environmental Protection

Co-Tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-Tenancy Act
Horizontal Well Unit Utilization - Subject to unitization filing with the WV Oil and Gas Conservation Commission

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

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

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

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

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

**HG Energy II Appalachia, LLC
Van Wie 1221 N-6H**

1221N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
1	FK002931	03-002D-0037-0000	FK002931	J. C. STARCHER AND A. C. STARCHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	201
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	52	239
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				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	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				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	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE		WVSOS
				DOMINION ENERGY TRANSMISSION, INC.	EASTERN GAS TRANSMISSION AND STORAGE, INC.	MERGER/NAME CHANGE		WVSOS
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	798	42				
2	FK079442 FEE	03-002D-0038-0000	FK079442 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746
		03-002D-0040-0000 p/o 03-002D-0042-0000						
3	FK054825 FK079440 FEE	03-002D-0003-0000 03-002D-0003-0001 03-002D-0003-0003 03-002D-0028-0000 03-002D-0029-0000 03-002D-0030-0000	Q100903000	JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	232
				WILLIAM A. LOUWTHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	401
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494
				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	9	628
				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	NOT LESS THAN 1/8	692	570
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	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				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	746				
				WILLIAM WALSH	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	1
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494

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16	FK054831 FK083808	03-002C-0008-0000 03-002C-0012-0000	Q101031000	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	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				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	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	FK057667	03-002C-0013-0000	Q100495000	FRANK J. MAXWELL AND CLARA G. MAXWELL, HIS WIFE; RUTH M. JOHNSON AND LOUIS A. JOHNSON, HER HUSBAND; W. BRENT MAXWELL, JR. AND MARGUERITE MAXWELL, HIS WIFE; EVERETT W. MAXWELL AND RUBY FARR MAXWELL, HIS WIFE; HARRIET M. JARVIS AND HUGH JARVIS, HER HUSBAND; EMMA M. LATHAM AND J. FRANK LATHAM, HER HUSBAND; ISAAC H. MAXWELL AND ELLA LOUISE MAXWELL, HIS WIFE; THE UNION BANK OF CLARKSBURG, GUARDIAN OF JAMES HORNER DAVIS III AND WILLIAM MAXWELL DAVIS, MINORS, BY HUGH JARVIS, PRESIDENT; BLANCHE M. HARRISON AND S.R. HARRISON, JR., HER HUSBAND; CLAY MAXWELL AND BLANCHE S. MAXWELL, HIS WIFE; J.H. MAXWELL AND VIRGINIA E. MAXWELL, HIS WIFE; SUSIE P. KIGER AND L.E. KIGER, HER HUSBAND; INEZ WILSON, WIDOW; LEWIS M. WOLFE AND EDITH M. WOLFE, HIS WIFE; PEARL FLEMING AND A.W. FLEMING, HER HUSBAND; CHRISTINE M. THOMPSON AND CHARLES H. THOMPSON, HER HUSBAND; GRACE M. GAYLORD, WIDOW; MARY M. HARPER AND WILLIAM J. HARPER, HER HUSBAND; RUTH M. DAVIES, WIDOW; F.P. MAXWELL AND RETA MAXWELL, HIS WIFE; CARRIE V. MAXWELL AND HAYMOND MAXWELL, SR., HER HUSBAND; SUSAN MAXWELL TUTENBERG AND CHARLES TUTENBERG, HER HUSBAND; CLAUDE D. MAXWELL AND WINIFRED L. MAXWELL, HIS WIFE; CAROLYN M. WILLIAMS AND DAVID WILLIAMS, HER HUSBAND, BY RETTA CARROLL, ATTORNEY-IN-FACT; AND A.F. MCCUE AND ALICE M. MCCUE, HIS WIFE									
				HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	179	55					
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89					
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127					
				CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS						
				DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS						
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154					
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57					
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848					
				NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	717	1					
				DOMINON TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170					
				DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS						
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499					

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				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				LORENA M. FAHEY AND W. C. FAHEY, HER HUSBAND; JOHN DROPPLEMAN; MARY MULLOOLY; JAMES P. DROPPLEMAN AND BERTHA F. DROPPLEMAN, HIS WIFE; J. P. DROPPLEMAN, COMMITTEE OF MARY LUNSFORD DROPPLEMAN AND GRACE M. DROPPLEMAN, INCOMPETENT; CLARA G. DROPPLEMAN; CATHERINE B. GEARY AND ROLAND R. GEARY, HER HUSBAND; EDNA BRONUSHAS AND I. B. BRONUSHAS, HER HUSBAND; ELLA KEIHE AND CLARENCE FRANK KEIHE, HER HUSBAND; HELEN A. DROPPLEMAN; PAUL DROPPLEMAN AND SIGALEE DROPPLEMAN, HIS WIFE; HELEN M. TAYLOR AND L. W. TAYLOR, HIS WIFE; VIRGINIA ARMSTRONG; DONALD DROPPLEMAN; JEAN DROPPLEMAN; AND JEAN DROPPLEMAN, TRUSTEE FOR BERNARD DROPPLEMAN AND MARY DROPPLEMAN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	228	365
				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	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	628
				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	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
				C. E. LAWHEAD AND ERMA R. LAWHEAD, HIS WIFE; AND LAURA LYDEN, WIDOW	A. T. CARR	NOT LESS THAN 1/8	61	379
				A. T. CARR	JAMES T. COX	ASSIGNMENT	61	438
				A. T. CARR	HOMER ROBINSON AND PHIL SHIPP	ASSIGNMENT	86	188
				HOMER ROBINSON AND PHIL SHIPP	R. WAYNE CHRISTENSON	ASSIGNMENT	87	184
				JAMES T. COX, DECEASED	BRUGGERMAN	LAST WILL AND TESTAMENT	53	499
				J. JOSEPH COX, DECEASED	CLARA ANN MORAN AND MARY JO BRUGGEMAN [sic]	LAST WILL AND TESTAMENT	U	107
				ALTA SHIPP, SURVIVOR OF HERSELF AND PHIL SHIPP, DECEASED	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	111	21
				HOMER ROBINSON AND JEWEL ROBINSON HIS WIFE	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	111	19
				ROCKWELL PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	112	316
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	112	440
				ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	112	442
				CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	112	228
				CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	112	297
				CARSON PETROLEUM COMPANY	ROYAL W. CARSON III	ASSIGNMENT	112	309
				GEORGE P. STUBBS AND R. WAYNE CHRISTENSON, TRUSTEE	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	123	98
				WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	126	434
				CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	128	184
				CPC 79-H LTD, BY CARSON PETROLEUM, ITS GENERAL PATNER	MARY A. CALLAN AND R.C. GRAYSON: 1.6%	ASSIGNMENT	133	307
				MASON	ALICE E. MASON	ASSIGNMENT	135	354

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Environmental Protection

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19	ARC-9707	02-0010-0015-0000 02-0010-0015-0001	ARC-9707	<p style="text-align: center;">RECEIVED Office of Oil and Gas AUG 26 2024</p> <p style="text-align: center;">WV Department of Environmental Protection</p>	DEVON ENERGY CORPORATION, A NEVADA CORPORATION; DEVON ENERGY CORPORATION AS ATTORNEY-IN-FACT FOR VAN A. BARBER & PAT BARBER; HENRY A. BITTNER; FRED J. AND L. DARLENE CASOTTI; JOHN F. CHANEY; THOMAS E. CORSON; GOLSETH, YOUNG & YOUNG 79-H; MARY A. CALLAN AND R. C. GRAYSON; GREENS INDUSTRIAL PARK COMPANY; JOHN HAMER AND GAYLE G. HAMER; JAMES C. HARRIS; JEANNE N. HOLLENBECK; GEORGE H. JENNINGS; GEORGE R. JOYCE; JULIAN KELLY AND BARBARA KELLY; NEIL C. KING; ALICE E. MASON, TRUSTEE; DALE W. MATTSON; HAROLD B. METCALF; DERLAND MOORE; LYNN L. MEYERS; CLINTON B. NORTHCUTT; ROY SCHENK; WESSON SCROGGIN AND BARBARA SCROGGIN; FREDERICK C. STREICH; PETER B. TAYLOR; AND DONALD V. H. WALKER	DEVON INVESTORS LTD	ASSIGNMENT			
					ALVIN REEVES, JR. AND PAM L. REEVES	DEVON INVESTORS LTD	ASSIGNMENT	144	488	
					B. W. HAMMERT III AND LOIS M. HAMMERT, HIS WIFE	CONTINENTAL PETROLEUM COMPANY	ASSIGNMENT		148	519
					DISTRICT OF OKLAHOMA	LOCATOR'S OIL & GAS INC	ASSIGNMENT		147	258
					DEVON ENERGY CORPORATION (DELAWARE)	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT		157	628
					GLENVILLE 1979	CPC CONSOLIDATED PROGRAM	ASSIGNMENT		163	69
					DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL & GAS CO INC	ASSIGNMENT		166	622
					ROBERT R. JONES	ROBERT R. JONES II	ASSIGNMENT		178	682
					CONTINENTAL PETROLEUM, AND ROBERT R. JONES	ABARTA OIL & GAS CO INC	ASSIGNMENT		179	383
					J. FRANK & PHILLIS PARMER	ABARTA OIL & GAS CO INC	ASSIGNMENT		180	7
					GWEN G. ROBERSON REINARZ	ABARTA OIL & GAS CO INC	ASSIGNMENT		180	168
					MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC	ABARTA OIL & GAS CO INC	ASSIGNMENT		180	191
					AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	CONTINENTAL PETROLEUM LLC	ASSIGNMENT		184	434
					ABARTA OIL & GAS CO INC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT		191	128
					MARY JO BRUGGERMAN	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT		261	463
					CLARA ANN MORAN	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT		271	568
					1979	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT		271	572
					ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE		WVSOS	
					ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT		508	442
					CP LEASE HOLDINGS & ROBERT R JONES II	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		795	485
					LOCATOR'S OIL AND GAS, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		794	808
20	FK002930	03-002D-0042-0000 03-002D-0043-0000 03-002D-0044-0000 03-002D-0049-0000	Q100747000		LEEMAN MAXWELL, W. BRENT MAXWELL, LEWIS MAXWELL, AND PORTER MAXWELL	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8		39	35
					SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT		52	239
					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	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
					DENNIS CONRY AND MAGGIE CONRY	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8		39	4

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21	FK054816 FK084380 FEE	03-002C-0009-0000 03-002C-0010-0000 03-002C-0011-0000 03-002C-0011-0001 03-002C-0011-0002 03-002C-0020-0000	Q100389000	SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	156	570				
				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	166	494				
				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	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				
				22	BHE-1	03-002B-0005-0000 03-002C-0001-0000	BHE-1	VIRGINIA TRIMBLE, A CO-PARTNER IN THE PARTNERSHIP FIRM OF PEEL TREE GAS COMPANY; AND VICTORIA B. SHAHADY AND GEORGE SHAHADY, HER HUSBAND	ROCKWELL PETROLEUM COMPANY	NOT LESS THAN 1/8	380	91
								ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	62
								ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	64
								ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	66
								ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	68
								ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	382	70
ROCKWELL PETROLEUM COMPANY	MARK R WORL	ASSIGNMENT	389					631				
ROCKWELL PETROLEUM COMPANY	ROBERT R. JONES	ASSIGNMENT	396					485				
CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	381					513				
CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	381					515				
CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	381					517				
CARSON PETROLEUM COMPANY	ROYAL W. CARSON JR	ASSIGNMENT	381					519				
CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	381					568				
CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	381					566				
CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	381					562				
CARSON PETROLEUM COMPANY	CPC 79-H LTD	ASSIGNMENT	381					564				
CARSON PETROLEUM COMPANY	ROYAL CARSON III	ASSIGNMENT	381					580				
CARSON PETROLEUM COMPANY	ROYAL CARSON III	ASSIGNMENT	381					572				
CARSON PETROLEUM COMPANY	ROYAL CARSON III	ASSIGNMENT	381					574				
CARSON PETROLEUM COMPANY	ROYAL CARSON III	ASSIGNMENT	381					576				
CARSON PETROLEUM COMPANY	ROYAL CARSON III	ASSIGNMENT	381					578				
CARSON PETROLEUM COMPANY	ROYAL CARSON III	ASSIGNMENT	381					570				
CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	412					736				
CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	412					735				
CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	412					738				
CARSON PETROLEUM COMPANY	GLENVILLE 1979	ASSIGNMENT	412					737				
CARSON PETROLEUM COMPANY	THOMAS E. EVANS	ASSIGNMENT	381					560				
CARSON PETROLEUM COMPANY	HAL MCKNIGHT	ASSIGNMENT	382					380				
ROCKWELL PETROLEUM COMPANY (ROBERT R. JONES AND MACK R. WORL, AS SOLE PARTNERS, ROBERT R. JONES, INDIVIDUALLY; AND MACK R. WORL, INDIVIDUALLY)	CARSON PETROLEUM CORPORATION	ASSIGNMENT	402					546				
CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R. WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CORPORATION	ASSIGNMENT	406					266				
THOMAS E. EVANS	DEVON ENERGY CORPORATION	ASSIGNMENT	408					140				

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CPC 79-H LTD, BY CARSON PETROLEUM, ITS GENERAL PATNER	DEVON ENERGY CORPORATION ET AL	ASSIGNMENT	421	460
DEVON ENERGY CORPORATION ET AL	DEVON INVESTORS LTD	ASSIGNMENT	444	345
ALVIN REEVES, JR. AND PAM L. REEVES	DEVON INVESTORS LTD	ASSIGNMENT	457	79
DEVON INVESTORS LTD	DEVON ENERGY CORPORATION (DELAWARE)	ASSIGNMENT	470	584
DEVON ENERGY CORPORATION (DELAWARE)	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	490	562
DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL & GAS CO INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	539	181
B. W. HAMMERT III AND LOIS M. HAMMERT, HIS WIFE	CONTINENTAL PETROLEUM COMPANY	ASSIGNMENT	449	547
CONTINENTAL PETROLEUM, AND ROBERT R. JONES	ABARTA OIL & GAS COMPANY INC	ASSIGNMENT	542	350
J. FRANK & PHILLIS PARMER	ABARTA OIL & GAS COMPANY INC	ASSIGNMENT	544	257
GWEN G. ROBERSON REINARZ	ABARTA OIL & GAS COMPANY INC	ASSIGNMENT	Doddridge 180	191
DEVON ENERGY CORPORATION (NEVADA)	ROBERT R. JONES	PARTIAL ASSIGNMENT	539	133
ROBERT R. JONES, JUDITH L. JONES, AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	571	574
ABARTA OIL & GAS COMPANY INC	BETA HELIX ENERGY LLC	ASSIGNMENT	765	446
BETA HELIX ENERGY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	788	266
CP LEASE HOLDINGS & ROBERT R JONES II	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	795	485
HAL MCKINGHT	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	AB 8	722
LOCATOR'S OIL AND GAS, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	794	808
EMMA DROPPLEMAN, WIDOW; AND EMMA TERESA MORAN, EXECUTRIX OF THE ESTATE OF HENRY J. DROPPLEMAN	ROCKWELL PETROLEUM COMPANY	NOT LESS THAN 1/8	108	464
ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT of well and 30 acres	110	550
CARSON PETROLEUM CORPORATION	CPC 79-G LTD	ASSIGNMENT of well and 30 acres	112	287
CARSON PETROLEUM CORPORATION	HS II-B LTD	ASSIGNMENT of well and 30 acres	112	223
CARSON PETROLEUM CORPORATION	CPC 79-H LTD	ASSIGNMENT of well and 30 acres	112	293
CARSON PETROLEUM CORPORATION	ROYAL W. CARSON III	ASSIGNMENT of well and 30 acres	112	304
CPC 79-H LTD., CARSON PETROLEUM CORPORATION	VAN AND PAT BARBER (0.016000); MARY A. CALLAN AND R.C. GRAYSON (0.016000); DEVON ENERGY CORPORATION (0.1280000); JACK E. COUNTS, JR. (0.016000); JOHN AND GAYLE HAMER (0.0080000); J. FRANK AND PHYLLIS PARMER JT/WRS. (0.016000); HAROLD B. METCALF: (0.016000); DALE W. MATTSON (0.016000); FRED J. AND L. DARLENE CASOTTI (0.016000); NEIL C. KING (0.016000); PETER B. TAYLOR (0.0080000); LYNN L. MYERS, M.D. (0.016000); KENNETH PENNELL OR BRIDGITTE PENNELL FT/WRS (0.016000); B. W. HAMMERT, III (0.0240000); JAMES C. HARRIS C/O HARRIS PACKING CO. (0.0240000); GEORGE H. JENNINGS, M.D. (0.016000); JOHN F. CHANEY (0.016000); ROBERT R. AND JUDITH L. JONES (0.0960000); GREENS INDUSTRIAL PARK CO. (0.15600000); JEANNE N. HOLLENBECK (0.016000); DONALD V. H. WALKER: (0.016000); DERLAND MOORE (0.016000); THOMAS E. CORSON (0.0400000); ALICE E. MASON, EXECUTRIX ESTATE OF RICHARD DEAN MASON (0.0400000); FRANCES D. OAKES, M.D. (0.016000); ALVIN REEVES, JR. (0.0240000); GWEN G. ROBERSON (0.016000); CLINTON B. NORTHCUTT (0.016000); ROY SCHENK (0.0400000); WESSON AND BARBARA SCOGGIN (0.016000); FREDRICK C. STREICH (0.0240000); GEORGE R. JOYCE (0.016000); GOLSETH, YOUNG AND YOUNG (0.0320000); HENRY A. BITTNER (0.016000); JULIAN KELLY AND BARBARA KELLY JT/WRS: (0.016000).	ASSIGNMENT (112-293)	133	307

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WV Department of
Environmental Protection

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ALICE E. MASON, AS EXECTURIX OF THE ESTATE OF RICHARD DEAN MASON	ALICE E. MASON, AS TRUSTEE UNDER A LIVING TRUST AGREEMENT WITH ALICE E. MASON	ASSIGNMENT (112-287)	135	362
ALICE E. MASON, AS EXECTURIX OF THE ESTATE OF RICHARD DEAN MASON	ALICE E. MASON, AS TRUSTEE UNDER A LIVING TRUST AGREEMENT WITH ALICE E. MASON	ASSIGNMENT (112-293)	135	354
DEVON ENERGY CORPORATION AND DEVON RESOURCE INVESTORS	DEVON INVESTORS LTD	MERGER/NAME CHANGE	WVSOS	
DEVON ENERGY CORPORATION; DEVON ENERGY CORPORATION AS ATTORNEY-IN-FACT FOR REGINALD K. BAILEY; VAN A. BARBER & PAT BARBER; DONALD M. BATES; HENRY A. BITTNER; FRED J. AND L. DAPELENE CASOTTI; JOHN F. CHANEY; RONALD CIESLAK; THOMAS E. CORSON; PATRICIA N. DAVIS; PETER C. DIETZE, TRUSTEE; LESLIE FOWLER AND JANE FOWLER; RONALD W. GILCHRIST, JR., M.D.; GOLSETH, YOUNG AND YOUNG 79-H; GOLSETH, YOUNG AND YOUNG 79-G; MARY A. CALLAN AND R. C. CALLAN; GREENS INDUSTRIAL PARK COMPANY; JOHN HAMER AND GAYLE G. HAMER; JAMES C. HARRIS; M. STANLEY HENDRICKSON; JEANNE N. HOLLENBECK; HALES S. IRWIN; GEORGE H. JENNINGS; GEORGE R. JOYCE; JULIAN KELLY AND BARBARA KELLY; NEIL C. KING; KWB	DEVON INVESTORS LTD	ASSIGNMENT	144	488
OIL PROPERTIES; LARK INVESTMENTS; EUGENE R. LOVE; ALICE E. MASON, TRUSTEE; DALE W. MATTSON; DONALD F. MENK; HAROLD B. METCALF; MILTON W. MEYER; DERLAND MOORE; LYNN L. MEYERS; WARREN D. MCPHEE; JOHN L. QUEBEDEAUX; CLINTON B. NORTHCUTT; ROY SCHENK; WESSON SCROGGIN AND BARBARA SCROGGIN; FREDERICK C. STREICH; PETER B. TAYLOR; JOHN E. TOUHEY; DONALD V. H. WALKER; AND JO ANN YATES	DEVON ENERGY CORPORATION, A DELAWARE CORPORATION	ASSIGNMENT	156	436
DEVON INVESTORS LTD., A LIMITED PARTNERSHIP, OF WHICH DEVON ENERGY CORPORATION (NEVADA), A NEVADA CORPORATION, IS THE SOLE GENERAL PARTNER	CONTINENTAL PETROLEUM COMPANY	ASSIGNMENT	147	258
B.W. HAMMERT III AND LOIS M. HAMMERT, HIS WIFE	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	180	7
CONTINENTAL PETROLEUM COMPANY AND ROBERT R. JONES	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	180	191
GWEN G. ROBERSON REINARZ	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	180	168
J. FRANK & PHILLIS PARMER	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	180	127
LESLIE W. BAXTER	LOCATOR'S OIL & GAS INC	ASSIGNMENT	157	628
NANCY K. HYDE, TRUSTEE OF BANKRUPTCY COURT FOR THE WESTERN DISTRICT OF OKLAHOMA	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	518	532
LOCATORS OIL AND GAS INC	SHAMROCK OIL & GAS INC	ASSIGNMENT (112-287 and 112-293)	166	653-A
CANDID OIL AND GAS INC/CANDID ENTERPRISES, COUNTS ENERGY, BEVERLY COUTNS ELLESS, AND JACK E. COUNTS, JR.	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	191	128
ROBERT R. JONES, INDIVIDUALLY, JUDITH L. JONES, INDIVIDUALLY, AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	ANTERO RESOUCES APPALACHIAN CORPORATION	ASSIGNMENT	274	151
SUSAN M. HENRY	HS CONSOLIDATED ASSET PARTNERSHIP	ASSIGNMENT	139	439
HS II-B LTD	HS CONSOLIDATED GROWTH PARTNERSHIP	ASSIGNMENT	139	443
HS II-B LTD	HS RESOURCES INC	ASSIGNMENT	153	500
HS CONSOLIDATED ASSET PARTNERSHIP	HS RESOURCES INC	ASSIGNMENT	153	477
HS CONSOLIDATED GROWTH PARTNERSHIP				

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				HS RESOURCES INC, HS CONSOLIDATED ASSET PARTNERSHIP, HS CONSOLIDATED GROWTH PARTNERSHIP, HS/SBH JOINT VENTURE	DEVON ENERGY CORPORATION	ASSIGNMENT	158	408
				ROCKWELL PETROLEUM COMPANY	ROYAL W. CARSON, JR.	ASSIGNMENT	114	582
				CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R. WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	126	434
				CONTINENTAL PETROLEUM LLC AND ROBERT R. JONES	CP LEASE HOLDINGS LLC	ASSIGNMENT	439	312
				ROBERT R. JONES II AND CP LEASE HOLDINGS LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	520	563
				ROCKWELL PETROLEUM COMPANY AND CARSON PETROLEUM CORPORATION	DEVON ENERGY CORPORATION	ASSIGNMENT	128	277
				DEVON ENERGY CORPORATION (DELAWARE)	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	163	69
				DEVON ENERGY CORPORATION (NEVADA)	ABARTA OIL & GAS CO., INC (90%) AND ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT	178	682
				MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC	ABARTA OIL & GAS COMPANY, INC	ASSIGNMENT	184	434
				ABARTA OIL & GAS CO., INC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	463
				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	531	124
				R. A. DROPPLEMAN AND MARGARET F. DROPPLEMAN, HIS WIFE; REGINA KREYENBUHL AND C. L. KREYENBUHL, HER HUSBAND; JOAN G. ENEIX AND LLOYD J. ENEIX, HER HUSBAND; WILL T. MCLAUGHLIN II, AS COMMITTEE FOR W. T. MCLAUGHLIN; LEO F. DROPPLEMAN AND IRENE M. DROPPLEMAN, HIS WIFE; JOHN L. GISSY AND GRACE M. GISSY, HIS WIFE; AND ROBERT J. GISSY AND ERNESTINE B. GISSY, HIS WIFE	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	98	592
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135	583
				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	323	187
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	424	234
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	377	212
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	388	34
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	454	483
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	479	1
28	FK108089	p/o 02-0006-0005-0001 02-0007-0002-0000 02-0007-0002-0001	Q100550000					

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HG Energy II Appalachia, LLC

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

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June 19, 2024

Cragin Blevins
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Drilling Under Roads – Van Wie 1221 N-6H
Freemans Creek District, Lewis County
West Virginia

Dear Mr. Blevins:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Van Wie 1221 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 Van Wie 1221 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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WW-PN
(11-18-2015)

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Weston Democrat Newspaper

Public Notice Date: Wednesday, May 22nd & Wednesday, May 29th, 2024

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: HG Energy II Appalachia, LLC **Well Number:** Van Wie 1221 N-6H

Address: 5260 Dupont Road
Parkersburg, WV 26101

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Lewis</u>
District:	<u>Freemans Creek</u>	Quadrangle:	<u>Vadis 7.5'</u>
UTM Coordinate NAD83 Northing:	<u>4327368.9</u>		
UTM coordinate NAD83 Easting:	<u>528685.9</u>		
Watershed:	<u>Fink Creek</u>		

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the County, permit number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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10/04/2024

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

Date of Notice Certification: 06/05/2023

API No. 47- _____
Operator's Well No. Van Wie 1221 N-6H
Well Pad Name: Van Wie

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	Eastings:	<u>528685.9</u>
County:	<u>Lewis</u>		Northing:	<u>4327368.9</u>
District:	<u>Freemans Creek</u>	Public Road Access:	<u>CR 11 / 3 via Straight Run Road</u>	
Quadrangle:	<u>Vadis WV 7.5's</u>	Generally used farm name:	<u>Van Wie</u>	
Watershed:	<u>Fink 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 <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED RECEIVED Office of Oil and Gas AUG 26 2024 <input checked="" type="checkbox"/> WV Department of Environmental Protection <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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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.

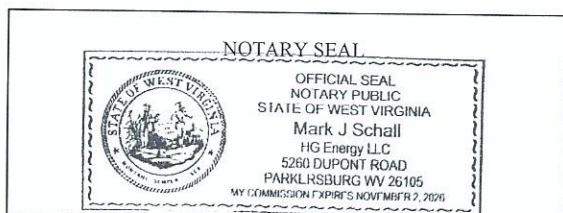
10/04/2024

WW-6AC
(1/12)

Certification of Notice is hereby given:

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

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



Subscribed and sworn before me this 5th day of June, 2024.

Mark J Schall Notary Public

My Commission Expires 11/2/2026

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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10/04/2024

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: 12/10/23 Date Permit Application Filed: 12/13/23

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:
 ** HG Energy II Appalachia is not being noticed as they are the Operator of the well pad.

SURFACE OWNER(s)
 Name: HG Energy II Appalachia, LLC **

Address: 5260 Dupont Road
 Parkersburg, WV 26101

Name: Anthony and Dawn Van Wie

Address: 2700 Jones Road
 Dunkirk, MD 20754

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
 Address: _____

Name: _____
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: NA
 Address: _____

COAL OPERATOR
 Name: NA
 Address: _____

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: BHE GT&S - Attn: Jamie Moore
 Address: 925 White Oaks Blvd
 Bridgeport, WV 26330

*Please attach additional forms if necessary

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WW-6A
(8-13)

API NO. 47- -
OPERATOR WELL NO. Van Wie 1221 NWH to 812H
Well Pad Name: Van Wie 1221

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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API NO. 47-
OPERATOR WELL NO. Van Wie 1221 N1H to S12H
Well Pad Name: Van Wie 1221

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

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.**

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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API NO. 47-
OPERATOR WELL NO. Van Wie 1221 M1H to S12H
Well Pad Name: Van Wie 1221

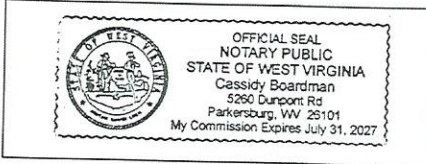
Notice is hereby given by:

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: 304-863-3172

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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 11th day of December, 2023
Cassidy Boardman Notary Public
My Commission Expires 7/31/2027

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WV Department of
Environmental Protection

10/04/2024

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

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

Date of Notice: January 5, 2024 Date of Planned Entry: January 12, 2024

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

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

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

Notice is hereby provided to: * Notice was not sent to HG Energy II Appalachia LLC as they are the Operator of Record

<input checked="" type="checkbox"/> SURFACE OWNER(s)	<input type="checkbox"/> COAL OWNER OR LESSEE
Name: <u>Anthony and Dawn Van Wie</u>	Name: <u>N/A</u>
Address: <u>2700 Jones Road</u>	Address: _____
<u>Dunkirk, MD 20754</u>	
Name: <u>HG Energy II Appalachia, LLC *</u>	<input checked="" type="checkbox"/> MINERAL OWNER(s)
Address: <u>5260 Dupont Road</u>	Name: <u>Same as Surface Owners</u>
<u>Parkersburg, WV 26101</u>	Address: _____
Name: _____	
Address: _____	

*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.094644 / 80.666480</u>
County: <u>Lewis</u>	Public Road Access: <u>CR11 / 3 via Straight Run Road</u>
District: <u>Freemens Creek</u>	Watershed: <u>Fink Creek</u>
Quadrangle: <u>Vadis</u>	Generally used farm name: <u>Van Wie</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: <u>HG 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> <u>Diane White</u>	Facsimile: <u>304-863-2752</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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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: 01/05/2024 **Date Permit Application Filed:** 01/15/2024

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

HAND DELIVERY CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

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

Name: Anthony and Dawn Van Wie
Address: 2700 Jones Road
Dunkirk, MD 20754

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: 528668.6
County: Lewis Northing: 4327353.9
District: Freemans Creek Public Road Access: CR11 / 3 via Straight Run Road
Quadrangle: Vadis WV 7.5' Generally used farm name: Van Wie
Watershed: Fink Creek

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

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Oil and Gas Privacy Notice:

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

10/04/2024

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: 01/05/2024 **Date Permit Application Filed:** 01/12/2024

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: HG Energy II Appalachia, LLC Name: Anthony and Dawn Van Wie
Address: 5260 Dupont Road Address: 2700 Jones Road
Parkersburg, WV 26101 Dunkirk, MD 20754

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: West Virginia UTM NAD 83 Easting: 528668.6
County: Lewis Northing: 4327353.9
District: Freemans Creek Public Road Access: CR 11 / 3 via Straight Run Road
Quadrangle: Vadis WV 7.5' Generally used farm name: Van Wie
Watershed: Fink Creek

This Notice Shall Include:

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

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

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Oil and Gas Privacy Notice:

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

10/04/2024



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of HighwaysOffice of the District Engineer/Manager
District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E.
Deputy Secretary of Transportation
Deputy Commissioner of HighwaysJimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

December 04, 2023

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304Subject: DOH Permit for the Van Wie 1221, Lewis County
N-6H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit 07-2023-0352 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 11/3 SLS MP 2.941.

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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Stephen G. Johnson
Director of Operations

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WV Department of
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Cc: Diane White
HG Energy II Appalachia, LLC
CH, OM, D-7
File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

10/04/2024

HG Energy II Appalachia, LLC
List of Frac Additives by Chemical Name and CAS #
Van Wie 1221 Well Pad (N-1H thru S-12H)

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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WW-6A7
(6-12)

OPERATOR: HG Energy II Appalachia, LLC WELL NO: Van Wie 1221 N-6H

PAD NAME: Van Wie 1221

REVIEWED BY: Diane White SIGNATURE: Diane White

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

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

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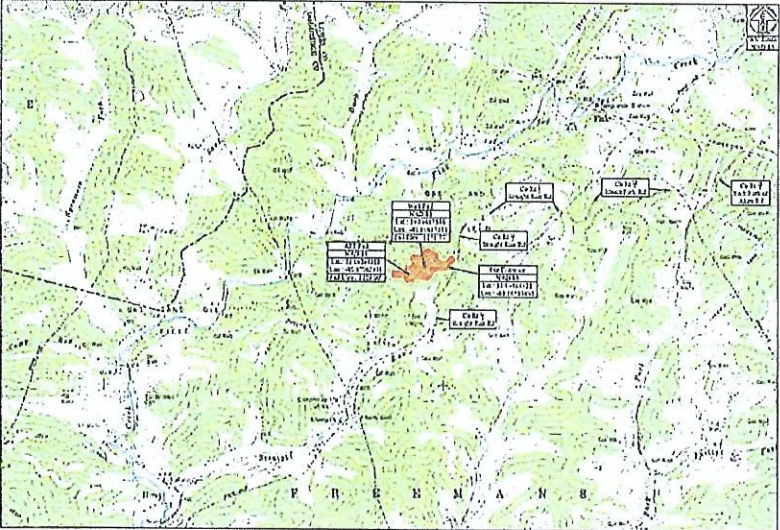
1221 Well Site
 Site Design, Construction Plan, &
 Erosion and Sediment Control Plans
 HG Energy LLC
 Lewis County
 Freemans Creek District
 Latitude 39.09467556°
 Longitude -80.66867393°
 Leading Creek Watershed

Permit Site Information
 1221 Site
 Emergency Number: 301-269-8241
 Freemans Creek District, Lewis County, WV
 Watershed: Leading Creek Watershed
 Site 911 Address:
 HG Energy Contact Number: 304-426-1100

Property Owner Information - 1221 Well Site

Code	Acres	Parcel ID	Parcel ID	Parcel ID	Parcel ID	Parcel ID	Parcel ID
1221	1.00	001	002	003	004	005	006
1221	1.00	007	008	009	010	011	012
1221	1.00	013	014	015	016	017	018

Exhibit A: Final Design: Issue for Permitting



Adjacent Roads

Property	Address	Parcel ID	Parcel ID	Parcel ID
1221	1221	001	002	003
1221	1221	004	005	006
1221	1221	007	008	009

Site Elevation Data

Station	Elevation	Station	Elevation	Station	Elevation
WVNSD111 7294.41	7294.41	WVNSD112 7294.41	7294.41	WVNSD113 7294.41	7294.41
WVNSD114 7294.41	7294.41	WVNSD115 7294.41	7294.41	WVNSD116 7294.41	7294.41
WVNSD117 7294.41	7294.41	WVNSD118 7294.41	7294.41	WVNSD119 7294.41	7294.41

Site Elevation Data (Continued)

Station	Elevation	Station	Elevation	Station	Elevation
WVNSD120 7294.41	7294.41	WVNSD121 7294.41	7294.41	WVNSD122 7294.41	7294.41
WVNSD123 7294.41	7294.41	WVNSD124 7294.41	7294.41	WVNSD125 7294.41	7294.41
WVNSD126 7294.41	7294.41	WVNSD127 7294.41	7294.41	WVNSD128 7294.41	7294.41

1221 Well Site Quantities

Item	Quantity	Unit	Notes
Excavation	100	cu yd	
Fill	50	cu yd	
Gravel	200	cu yd	
Asphalt	100	sq yd	

Project Contacts

Role	Name	Phone	Email
Project Manager	John Doe	304-123-4567	john.doe@hgenergy.com
Site Supervisor	Jane Smith	304-123-4567	jane.smith@hgenergy.com

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MISS UTILITY OF WEST VIRGINIA
 1-800-245-4848

811
 Call before you dig

Site Locations (NAD 83)

Feature	Latitude	Longitude
Well Location	39.09467556	-80.66867393
Access Road	39.09467556	-80.66867393

Well Location Summary

1221 Well Site is located on the east side of the road, approximately 100 feet from the road. The well is located on a 1.00-acre parcel. The well is located on a 1.00-acre parcel. The well is located on a 1.00-acre parcel.

Site Location (NAD 83)

Feature	Latitude	Longitude
Well Location	39.09467556	-80.66867393
Access Road	39.09467556	-80.66867393

Scale 1" = 112.5'

Digitally signed by: Kenneth Greynolds
 SIGNED BY: Kenneth Greynolds email=kenneth.l.greynolds@wv.gov C=AD O=WVDEP OU=Oil and Gas
 Date: 2024.08.16 11:24:23 -0400

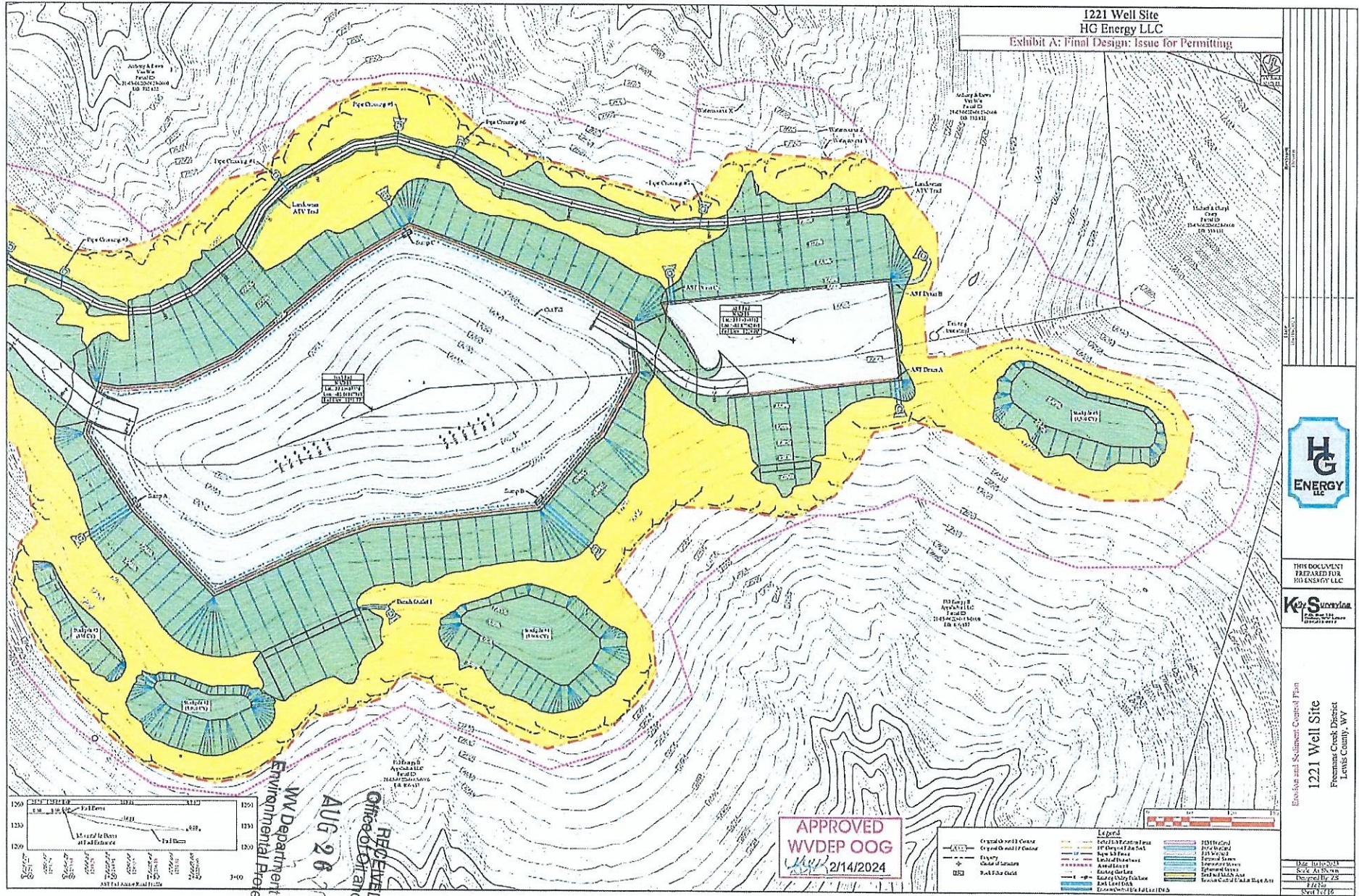
HG ENERGY

THIS DOCUMENT PREPARED FOR HG ENERGY LLC

Kelly Summers
 304-123-4567

1221 Well Site
 Freemans Creek District
 Lewis County, WV

47061057AR



1221 Well Site
HG Energy LLC
 Exhibit A: Final Design: Issue for Permitting



THIS DOCUMENT
 PREPARED FOR
 HG ENERGY LLC



Enclave and Equipment Control Plan
1221 Well Site
 Fremont Creek District
 Letcher County, WV

Date: 10-10-2013
 Scale: As Shown
 Project No.: 22
 Sheet No.: 10

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 2/14/2024

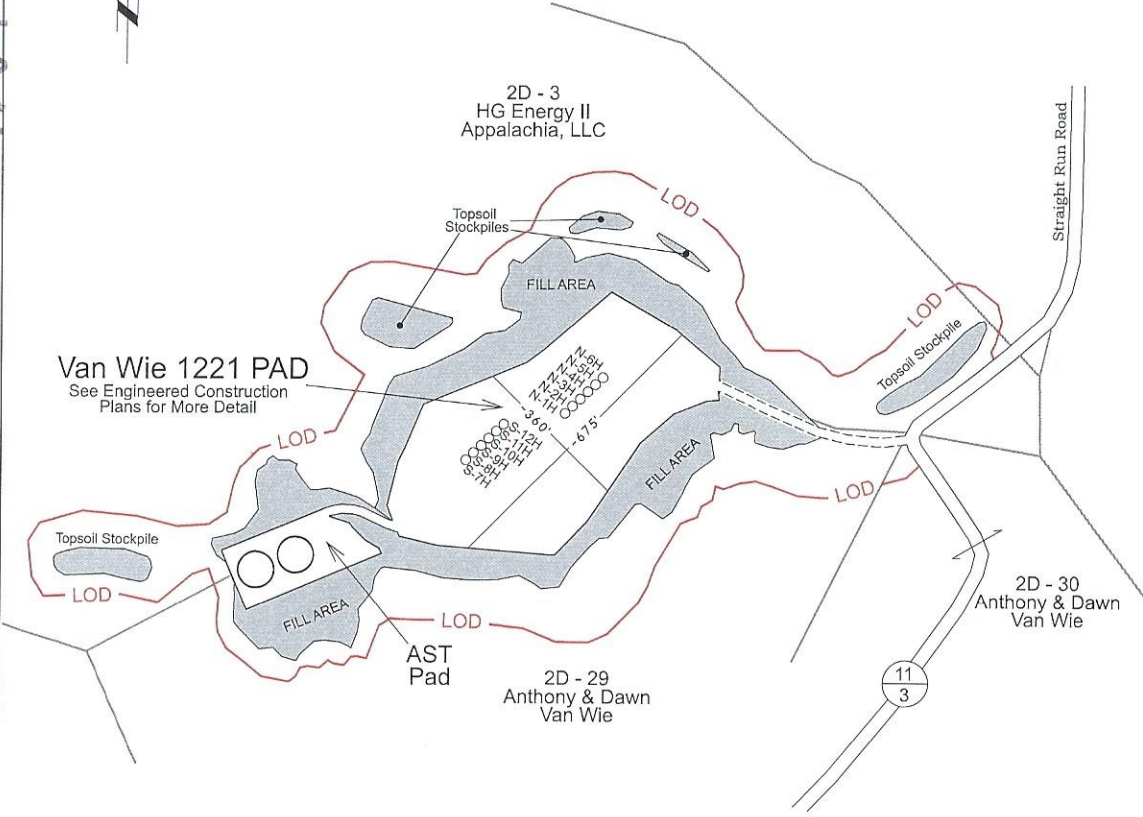
Symbol	Description	Symbol	Description
—	Grasshopper Contour	—	100' Contour
—	Gravel Contour	—	200' Contour
—	Color of Surface	—	300' Contour
+	Peak of Surface	—	400' Contour
—	Peak of Gravel	—	500' Contour
—	Gravel Contour	—	600' Contour
—	Gravel Contour	—	700' Contour
—	Gravel Contour	—	800' Contour
—	Gravel Contour	—	900' Contour
—	Gravel Contour	—	1000' Contour

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 WV Department of
 Environmental Protection

Kenneth Greynolds
 Digitally signed by: Kenneth Greynolds
 DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas
 Date: 2024.08.16 11:25:09 -0400

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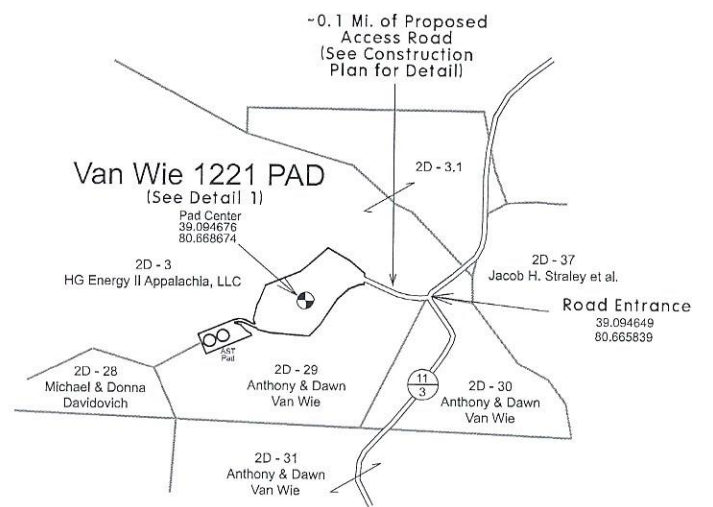


Van Wie 1221 PAD
Detail 1
 NTS

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

Reclamation Plan For:
Van Wie 1221 PAD

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 Environmental Protection



- 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.