



---

west virginia department of environmental protection

---

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, February 12, 2026  
WELL WORK PERMIT  
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for BARNES 1223 N-1H  
47-017-07003-00-00

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.

H. Jason Harmon  
Acting Chief

Operator's Well Number: BARNES 1223 N-1H  
Farm Name: MAXINE S. RASTLE  
U.S. WELL NUMBER: 47-017-07003-00-00  
Horizontal 6A: New Drill  
Date Issued: 2/12/2026

Promoting a healthy environment.

02/13/2026

# 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.

02/13/2026

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

1) Well Operator: HG Energy II Appalachia, L 494519932 Doddridge Cove Vadis 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Barnes 1223 N-1H Well Pad Name: Barnes 1223

3) Farm Name/Surface Owner: Barnes Public Road Access: SLS 29

4) Elevation, current ground: 1305' Elevation, proposed post-construction: 1311'

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 7129' to 7232' and 103' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7272'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,792'

11) Proposed Horizontal Leg Length: 7,862'

12) Approximate Fresh Water Strata Depths: 220', 400'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-017-02490,47-017-02742, 2520)

14) Approximate Saltwater Depths: NA

15) Approximate Coal Seam Depths: NA

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: \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
**JAN 20 2026**  
WV Department of  
Environmental Protection

4701707003

WW-6B  
(04/15)

API NO. 47- \_\_\_\_\_  
 OPERATOR WELL NO. Barnes 1223 N-1H  
 Well Pad Name: Barnes 1223

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	20"	New	LS	94	120'	120' ✓	Drilled In
Fresh Water	13.375"	NEW	J-55 BTC	54.5	1300'	1300' ✓	40% excess, yield = 1.18, CTS
Coal							
Intermediate	9 5/8"	NEW	N-80 BTC	40	7570'	7570' ✓	Lead - 40% excess, Tail - 0% Excess <input checked="" type="checkbox"/>
Production	5 1/2"	NEW	P-110 HP	23	15792'	15792' ✓	Lead - Yield = 1.19, Tail - yield = 1.94 <input checked="" type="checkbox"/>
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	20"	.438				Drilled In
Fresh Water	13 3/8"	17.5"	.380	2730	1200	Type 1, Class A ✓	30 % excess yield = 1.20, CTS
Coal							
Intermediate	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	40% excess yield = 0% Excess Lead <input checked="" type="checkbox"/>
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.19, tail yield 1.94 <input checked="" type="checkbox"/>
Tubing							
Liners							

**PACKERS**

Kind:				RECEIVED Office of Oil and Gas  <b>JAN 12 2026</b>  WV Department of Environmental Protection
Sizes:				
Depths Set:				

WW-6B  
(04/15)

API NO. 47- \_\_\_\_\_  
 OPERATOR WELL NO. Barnes 1223 N-1H  
 Well Pad Name: Barnes 1223

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	20"	New	LS	94	120'	120'	Drilled In
Fresh Water	13.375"	NEW	J-55 BTC	54.5	1300'	1300'	40% excess yield = 1.19 CTS
Coal							
Intermediate	9 5/8"	NEW	N-80 BTC	40	7570'	7570'	Lost - 4% excess, Tol - 0% Excess Yield
Production	5 1/2"	NEW	P-110 HP	23	15792'	15792'	Lost - Yield = 1.19, Tol - yield = 1.19, 40% Excess Yield
Tubing							
Liners							

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: 2025.01.07 08:42:03 -0500

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	20"	20"	.438				Drilled In
Fresh Water	13 3/8"	17.5"	.380	2730	1200	Type 1, Class A	30% excess yield = 1.20 CTS
Coal							
Intermediate	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	40% excess yield - 0% Excess Yield
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.11, tol yield = 1.11
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

RECEIVED  
Office of Oil and Gas

JAN 12 2026

WV Department of  
Environmental Protection

02/13/2026

WW-6B  
(10/14)

API NO. 47- \_\_\_\_\_

OPERATOR WELL NO. Barnes 1223 N-1H

Well Pad Name: Barnes 1223

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 7272'. Drill horizontal leg to an estimated 7,862' lateral length, 15,792' 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.

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. Maximum pressure not to exceed 12,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 51.82 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.11 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.  
Freshwater - Bow Spring on every other joint.  
Intermediate - Bow Spring on first 2 joints then every third joint to 100' from surface.  
Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the curve.

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig.  
Fresh Water - \*15.6 ppg Class A Neat 94#/sk40% ExcessYield=1.18 / CTS\*  
Intermediate - \*Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl2/0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl2 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 - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.  
Intermediate - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.  
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

\*Note: Attach additional sheets as needed.



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

4701707003

January 7, 2026

Mr. Cragin Blevins  
WVDEP  
Division of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304

RE: Barnes 1223 N-1H  
Cove District, Doddridge County  
West Virginia

RECEIVED  
Office of Oil and Gas

JAN 12 2026

WV Department of  
Environmental Protection

Dear Mr. Blevins -

Reasoning for Extending the Surface Casing –

HG has previously asked for and been granted permission to drill surface casing deeper than the 100' below the freshwater depths. In this area surrounding the BHE Gas Transmission Storage Field / Pool, we encounter numerous coal strings not previously recorded at depths in and around our requested deeper surface casing set depth and we want to make sure the surface casing is extending past all coal and freshwater strings we might encounter. HG is taking a cautious approach with this string of casing, especially since we plan to drill on air for a portion of the next hole size / section and do not want to have any water influx from said coal seams. Furthermore, after this air drilling, we are required to drill on water based mud in order to drill through the storage horizon and as we know, coal seams are most often under pressured and if drilling on mud / WBM in this case, coal seams can break down ("drink") if hydrostatic pressure above them from the mud weights gets too high and the coal seams can then become thief zones (mud loss zones) where the drilling fluid can leak off. Lastly, having the surface casing shoe as deep as possible is also preferable in the case of having to shut in during a well control event while drilling through the storage field. However unlikely this may be, we want to be cautious and plan for all contingencies.

Let me know if you have any other questions, and thank you,  
Diane

02/13/2026

**HG Energy II Appalachia, LLC  
Barnes 1223 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			
			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																			
Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>bentonite</td> <td>90 - 100</td> <td>1302-78-9</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-9	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
			Ingredient name	%	CAS number																
bentonite	90 - 100	1302-78-9																			
Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7																			
Calcium Chloride	Accelerator	A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>90 - 100</td> <td>10043-52-4</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
			Ingredient name	%	CAS number																
Calcium chloride	90 - 100	10043-52-4																			
Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
			Ingredient name	%	CAS number																
No hazardous ingredient																					
FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
			Ingredient name	%	CAS number																
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												
			Ingredient name	%	CAS number																
Sucrose	90 - 100	57-50-1																			
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												
			Ingredient name	%	CAS number																
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														
			Ingredient name	%	CAS number																
No hazardous ingredient																					
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									
			Ingredient name	%	CAS number																
Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7																			
Calcium oxide	1 - 5	1305-78-8																			
R-3	Retarder	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Organic acid salt</td> <td>40 - 50</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
			Ingredient name	%	CAS number																
Organic acid salt	40 - 50	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.
			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.																			

Office of Oil and Gas

JAN 12 2026

WV Department of Environmental Protection

02/13/2026



4701707003

**1223 N-1H  
Marcellus Shale Horizontal  
Doddridge County, WV**

Ground Elevation			1223 N-1H SHL					14203144.54N 1720529.74E		
Azm			1223 N-1H LP					14203340.48N 1718351.18E		
WELBORE DIAGRAM			1223 N-1H BHL					14210726.04N 1715683.86E		
HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
20"	20" 94# LS				AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Surface casing = 0.438" wall thickness	
		Conductor	0	120						
17.5"	13-3/8" 54.5# J-55 BTC	Coal	580		AIR	15.6 ppg Class A Neat 94#/sk 40% Excess Yield=1.18 / CTS	Bow Spring on every other joint	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.380" wall thickness Burst=2730 psi	
		Coal	610							
		Coal	900							
		Fresh Water Protection	0	1300						
12.25"	9-5/8" 40# N-80 BTC	Little Lime/Big Lime	2290/2345	2305/2401	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	
		Big Injun/Gantz	2401/2755	2495/2785						
		50 Foot/Gordon	2861/3042	2903/3122						
		Fifth	3213	3263						
		Bayard	3286	3311						
		Warren/Speechley	3594/3807	3629/3842						
		Benson / Alexander	5213 / 5474	5346 / 5604	AIR / 9.0ppg SOBM					
		Rhinestreet	6431	6719						
		West River	6943	7012						
		Burkett	7012	7053						
		Tully Limestone	7053	7078						
Intermediate	0		TVD: 7062' MD: 7570' Inc. 69 deg.							
8.5" Curve	5-1/2" 23# P-110 HP TXP / W461				11.5ppg-12.5ppg 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	
		Hamilton	7078	7129						
8.5" Lateral		Marcellus	7129	7232						
		TMD / TVD (Production)	15792	7135						
		Onondaga	7232							

RECEIVED  
Office of Oil and Gas  
JAN 12 2025  
WV Department of Environmental Protection

LP @ 7135' TVD / 7930' MD      8.5" Hole - Cemented Long String 5-1/2" 23# P-110 HP TXP / W461      +/-7862' ft Lateral      TD @ +/-7272' TVD +/-15792' MD

X=centralizers

4701707003

WW-9  
(4/16)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Barnes 1223 N-1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appalachia, LLC OP Code 494501907

Watershed (HUC 10) 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 )
- 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 RECEIVED Office of Oil and Gas

Company Official (Typed Name) Diane White JAN 12 2026

Company Official Title Agent WV Department of Environmental Protection

Subscribed and sworn before me this 8/5/25 day of August, 20 25

[Signature] Notary Public

My commission expires 10/2/2026



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
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Maintain E&S controls through the drilling and completion process

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

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

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

RECEIVED Office of Oil and Gas

JAN 12 2026

WV Department of Environmental Protection

Title: Oil & Gas Inspector Date:

Field Reviewed? ( ) Yes ( ) No

Form WW-9

Operator's Well No. Barnes 1223 N-1H

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	<u>40</u>	Tall Fescue	<u>40</u>
Ladino Clover	<u>5</u>	Ladino Clover	<u>5</u>

Maintain E&S controls through the drilling and completion process

Attach:

Map(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 OU = Oil and Gas  
Date: 2025.01.07 06:42:33 -0500

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

Title: Oil & Gas Inspector Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

02/13/2026

4701707003

4701706978

**HG Energy II Appalachia, LLC**

# Site Safety Plan

**Barnes 1223 Well Pad  
3160 Saint Clara Rd, Alum Bridge  
Doddridge County, WV 26321**

**October 2023: 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**

RECEIVED  
Office of Oil and Gas

MAY 04 2024

WV Department of  
Environmental Protection

RECEIVED  
Office of Oil and Gas

JAN 12 2026

WV Department of  
Environmental Protection



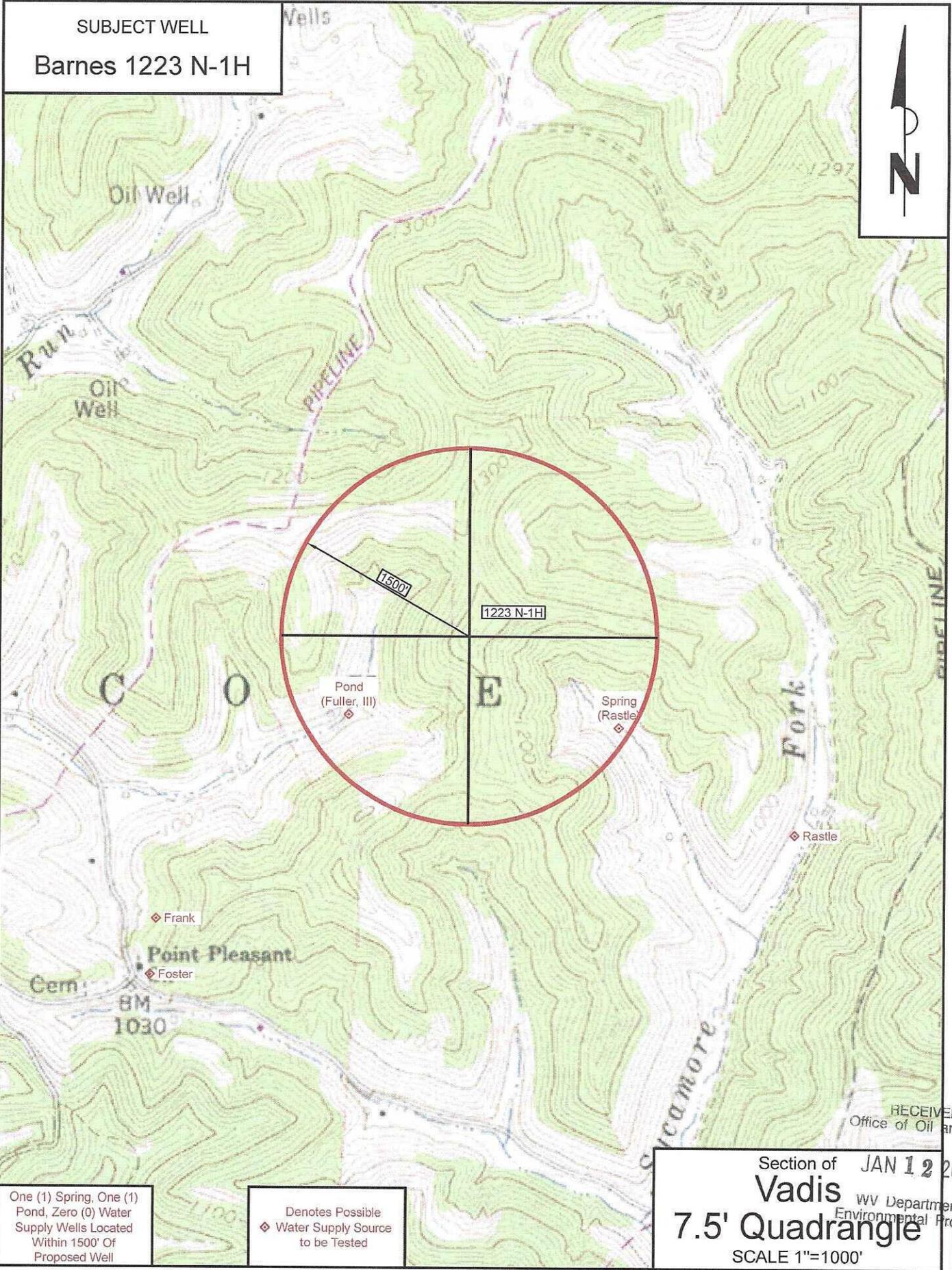
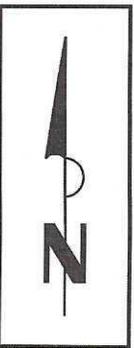
04/24/2024



10-16-23

02/13/2026

SUBJECT WELL  
Barnes 1223 N-1H



One (1) Spring, One (1) Pond, Zero (0) Water Supply Wells Located Within 1500' Of Proposed Well

Denotes Possible Water Supply Source to be Tested

Section of **Vadis** 7.5' Quadrangle  
SCALE 1"=1000'  
RECEIVED JAN 12 2026  
Office of Oil and Gas  
WV Department of Environmental Protection

02/13/2026

HG Energy II Appalachia, LLC  
Well No. Barnes 1223 N-1H

Page 1 of 2

Tag	Bearing	Dist.
L1	S 89°06' W	1,614.6'
L2	N 64°18' W	1,171.2'
L3	N 30°28' E	1,962.0'
L4	N 48°09' E	1,129.6'
L5	N 84°52' W	2,187.4'

1/2" Rebar w/ 4"x4" concrete post

3/4" Rebar in concrete

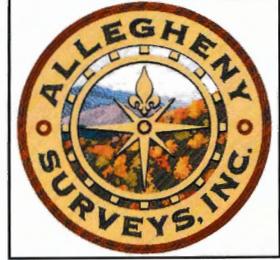
3/4" Rebar

1/2" Rebar @ fence corner

6"x6"x12" Stone w/ "L" chiseled & w/ T-post witness

3"x12"x18" Stone

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



TOP HOLE LONGITUDE 80 - 42 - 30  
BTM HOLE LONGITUDE 80 - 42 - 30

12,721' to Bottom Hole

2,668' to Top Hole

7,490' to Bottom Hole



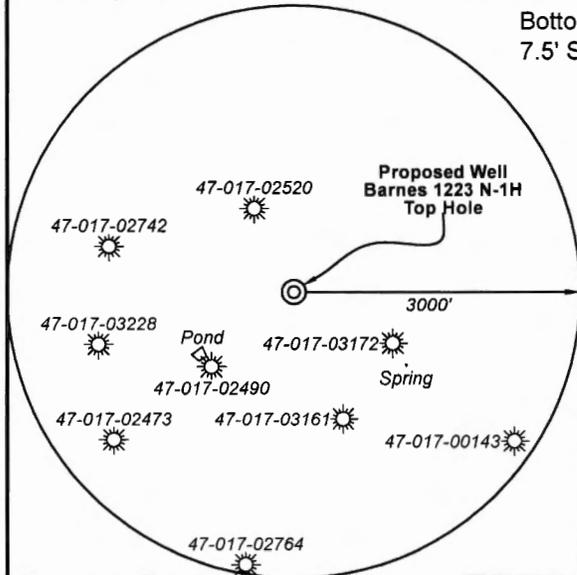
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



SEAL

Note: 0 water wells, 1 pond, & 1 spring 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.



Barnes 1223 N-1H Bottom Hole

5/8" Rebar

47-017-03547

5/8" Rebar @ fence corner

1/2" Rebar

Bottom Hole 7.5' Spot

2" Pipe

5/8" Rebar

Proposed Well Barnes 1223 N-1H Top Hole

1/2" Rebar @ fence corner

500' Buffer

FILE NO: 171-12-30-FC-22  
DRAWING NO: Barnes 1223 N-1H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: January 22 20 26  
OPERATOR'S WELL NO. Barnes 1223 N-1H  
API WELL NO  
47 - 017 - 07003  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,311.55' WATERSHED: Leading Creek

QUADRANGLE: Vadis

DISTRICT: Cove

COUNTY: Doddridge

SURFACE OWNER: Maxine S. Rastle, et al

ACREAGE: 53.63

ROYALTY OWNER: Maxine Cole Rastle, aka Maxine S. Rastle, et al LEASE NO: ACREAGE: 53.63

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: 7,272' TVD 15,792' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

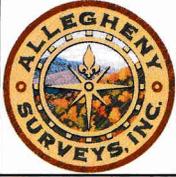
ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

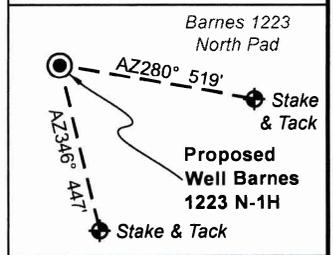
Parkersburg, WV 26101

Parkersburg, WV 26101

02/13/2026



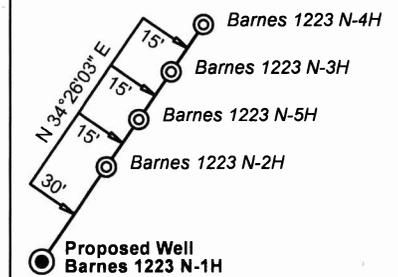
**Well Location References  
Not to Scale**



**Legend**

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

**Wellhead Layout (NTS)**



ID	Lease
1	Maxine Cole Rastle, aka Maxine S. Rastle, et al
2	Asset Management, LLC., et al
3	William M. Bailey, aka William M. Baily, et al
4	James L. Marsh, et al
6	Lulu C. Schmidt, Widow, et al
7	Marie & Edmond Cole, et al
8	Rosa M. Hinter, et al
9	James J. Hinter Life Estate, et al

Doddridge County				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	9 / 28	Maxine S. Rastle, et al	AB 58 / 287	53.63
2	10 / 17	Marilyn Barnes, et al	W28 / 552	90.00
3	9 / 27	Willard L. Fuller, III	215 / 149	89.00
4	9 / 26	Chestnut Oak, LLC	513 / 465	91.75
5	9 / 24	Charles Wellings	94 / 478	204.50
6	9 / 20	Clyde W. Marsh, et al	W36 / 152	149.00
7	9 / 19	James J. & Leopold W. Hinter	211 / 1	26.00
8	9 / 18	Nelson G. McCloy	269 / 190	95.00
9	9 / 11.1	James J. & Leopold W. Hinter	211 / 1	61.21
10	9 / 8.1	James J. Hinter	238 / 287	61.10
11	9 / 9	James J. & Leopold W. Hinter	AB 35 / 77	34.25
12	9 / 10	James J. & Leopold W. Hinter	AB 35 / 77	93.00
13	5 / 29	Sam Marano, Jr.	230 / 191	33.11
14	9 / 11	Ann M. & Rebecca Zirkle	230 / 191	33.11
15	5 / 29.2	HG Energy II Appalachia	W124 / 142	100.96
16	5 / 29.1	HG Energy II Appalachia	358 / 349	20.16
17	5 / 20	Catherine S. Ross	302 / 481	131.98

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

**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. Barnes 1223 N-1H**  
**WVCS 1927, North Zone**  
Top Hole Coordinates  
Lat: 39°06'39.11"  
Lon: 80°43'03.86"  
Landing Point Coordinates  
Lat: 39°06'41.11"  
Lon: 80°43'31.50"  
Bottom Hole Coordinates  
Lat: 39°07'54.22"  
Lon: 80°44'05.08"

**Notes: Well No. Barnes 1223 N-1H**  
**UTM NAD 1983 (USFS)**  
Top Hole Coordinates  
N: 14,203,144.54'  
E: 1,720,529.74'  
Landing Point Coordinates  
N: 14,203,340.48'  
E: 1,718,351.18'  
Bottom Hole Coordinates  
N: 14,210,726.04'  
E: 1,715,683.86'

**Notes: Well No. Barnes 1223 N-1H**  
**UTM NAD 1983 (Meters)**  
Top Hole Coordinates  
N: 4,329,127.114m  
E: 524,418.514m  
Landing Point Coordinates  
N: 4,329,186.837m  
E: 523,754.487m  
Bottom Hole Coordinates  
N: 4,331,437.960m  
E: 522,941.486m

FILE NO: 171-12-30-FC-22  
DRAWING NO: Barnes 1223 N-1H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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



DATE: January 22 20 26  
OPERATOR'S WELL NO. Barnes 1223 N-1H  
API WELL NO  
47 - 017 - 07003  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,311.55' WATERSHED: Leading Creek

QUADRANGLE: Vadis

DISTRICT: Cove

COUNTY: Doddridge

SURFACE OWNER: Maxine S. Rastle, et al

ACREAGE: 53.63

ROYALTY OWNER: Maxine Cole Rastle, aka Maxine S. Rastle, et al LEASE NO: ACREAGE: 53.63

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: 7,272' TVD 15,792' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

4701707003

WW-6A1  
(5/13)

Operator's Well No. Barnes 1223 N-1H

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

**\*\*See Attached Sheets\*\***

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

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

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

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

HG Energy II Appalachia, LLC  
Barnes 1223 N-1H Lease Chain

1223N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
1		02-0009-0028-0000 02-0014-0001-0000	HGII02292 et al	MAXINE COLE RASTLE AKA MAXINE S. RASTLE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	526	409
				MIRE ROSS, INC.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	512	216
				RIDGEWOOD DEVELOPMENT LLC	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	512	216
				THOMAS EDWARD RASTLE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	513	132
				JACQUILINE ROBINSON, AKA JACQUELINE ROBINSON	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	533	384
				THOMAS ROBERT RILEY	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	530	489
				PATRICIA ANN RILEY FKA PATRICIA ANN MARTIN AKA PATRICIA ANN RILEY MARTIN	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	530	487
				YVONNE RASTLE FOSTER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	514	714
				ALICE RASTLE TAYLOR AKA ALICE M. RASTLE TAYLOR	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	514	706
				HENRY G. RASTLE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	516	21
				ARMSTRONG LAND MANAGEMENT (RICHARD ARMSTRONG; PRESIDENT)	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	529	58
				Asset Management, LLC Clay Gatlin, managing member Send docs to John Foster Tyra, PC (Legal Counsel) 3495 Firethorn Dr., Tuscaloosa, AL 35405	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	303
				Dale/Peragrino Minerals Fund, LP Southland Capital Realty Group, LLC	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	516	476
				T. Todd Martin, III, managing member Selwyn H. Turner, III, managing member Elizabeth Turner, managing member	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	153
2	HGII03825 ET AL	02-0009-0027-0000	HGII03825 ET AL	Panacea Energy, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	520	598
				Upstream Energy, LLC	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525	151
				Billy R. Powell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	510	370
				Estate of Nannie Bell Broocks "Red" Womack, Ellen Womack Giles, Executrix	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8		
				Rawls Energy, LLC			531	490
				James H. Rawls, Managing Member	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8		
				Homer Roberts Collins	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	605
				Gold City Mineral Partners, LP	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	507	304
				William Kirkpatrick	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	390
				Sylvia Kirkpatrick	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533	388
				Marilyn Allen	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	510	263
				James E. Poole, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	518	278
				Dale Williston Minerals 2012-B, LP	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	391
				John C. Sipple				
				Pinebelt Oil & Gas, Inc.	HG ENERGY II APPALACHIA, LLC	Drilling and Permission to Permit Agreement	550	291
				Robert M. Newstome	HG ENERGY II APPALACHIA, LLC	Drilling and Permission to Permit Agreement	550	305
				Petroleum Properties, LLC	HG ENERGY II APPALACHIA, LLC	Drilling and Permission to Permit Agreement	550	298
WILLIAM M. BAILEY AKA WILLIAM M. BAILEY	HG ENERGY II APPALACHIA LLC	COTENANCY AFFIDAVIT	70	391				
SARA S. BAILEY	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	513	130				
JAN MARTIN PIRA	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	509	729				
JAN MARTIN PIRA	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	510	374				
LEWIS EDWARD PIRA AKA EDWARD PIRA	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	510	374				
LAUREN ELIZABETH PIRA AKA LAUREN ELISABETH PIRA NELSON	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	511	216				
			511	218				
3	HGII031014 ET AL	02-0009-0026-0000 02-0013-0020-0000	HGII031014 ET AL					

RECEIVED  
Office of Oil and Gas  
**JAN 20 2026**  
WV Department of  
Environmental Protection

4		02-0009-0020-0000	HG102942 et al	GUNNAR FOLKE PIRA	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	511	318				
				WILLIAM M. BAILEY AKA WILLIAM M. BAILY	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	513	130				
				JAMES L. MARSH	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	515	618				
				CAROL ANN HENRY	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	515	624				
				DONNA JEAN GETSINGER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	515	622				
				JANE WHITE AKA CAROLYN JANE WHITE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	515	620				
				ALICE MARGARET RASTLE TAYLOR	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	514	708				
				YVONNE FOSTER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	514	710				
				HENRY GRAY RASTLE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	514	417				
				MAXINE COLE RASTLE AKA MAXINE S. RASTLE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	512	420				
				HELEN J. MCCLAIN	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	516	222				
				CHRISTINE A. DAVIS WAMPLER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	512	581				
				NORMA C. BOWYER AKA NORMA SUE (COLE) BOWYER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	516	422				
				CHERYL DEWEESSE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	521	216				
				RICHARD GAGE SPRAY AKA RICHARD SPRAY	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	513	134				
				JAMES EDWARD POSTLE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	531	160				
				MICHAEL ERIC ROBERTSON	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	521	603				
				ST. IOHANNES LUTHERAN CHURCH OF ST. CLARA, BY PHYLLIS HINTERER, CLARA MAE SPRAY, MARION ZORN, REBECCA STRICKLING, AND JAMES STRICKLING CHURCH COUNCIL MEMBERS	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	524	331				
				6	POS0002	02-0009-0019-0000	POS0002	LULU C. SCHMIDT, WIDOW; LELIE R. SPRAY, WIDOW; MYRTLE M. SPRAY, WIDOW; AND H.C. SPRAY, WIDOWER	TRIANGLE OIL COMPANY	NOT LESS THAN 1/8	73	331
								ST. IOHANNES LUTHERAN CHURCH, BY REVEREND HERBERT BUHLER, PASTOR; HOWARD HINTER, VICE-PRESIDENT OF COUNCIL; HERBERT SCHMIDT, SECRETARY; AND GLENN SCHMIDT, TREASURER	TRIANGLE OIL COMPANY	NOT LESS THAN 1/8	73	328
MRS. R. C. SPRAY, WIDOW; RICHARD SPRAY, SINGLE; LUKE WHITE AND JANE WHITE, HUSBAND AND WIFE; JOSEPH R. SPRAY AND CLARA MAE SPRAY, HUSBAND AND WIFE; HOWARD S. MEANS AND GENEVRA MEANS, HUSBAND AND WIFE; AND CLYDE W. MARSH AND LUCILLE MARSH, HUSBAND AND WIFE	TRIANGLE OIL COMPANY	NOT LESS THAN 1/8	73					457				
TRIANGLE OIL COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT (73/457)	121					702				
H. DEE WHITE, INDIVIDUALLY; M. R. WITSMAN, INDIVIDUALLY; M.J. WARREN, INDIVIDUALLY; AND, H. DEE WHITE, M.R. WITSMAN AND M. J. WARREN, PARTNERS, DBA TRIANGLE OIL COMPANY	NEW TRIANGLE OIL COMPANY	ASSIGNMENT	149					174				
SOUTHERN TRIANGLE OIL COMPANY, AND NEW TRIANGLE OIL COMPANY, PARTNERSHIP, BY LESTER D. MOORE, GENERAL PARTNER, AND LESTER D. MOORE, INDIVIDUALLY	PROFESSIONAL OILFIELD SERVICES INC	ASSIGNMENT	149					277				
PROFESSIONAL OILFIELD SERVICES INC	BLUESTONE ENERGY PARTNERS	ASSIGNMENT	246					181				
BLUESTONE ENERGY PARTNERS	BEP MERGER SUB, LP	MERGER/NAME CHANGE	288					1				
BEP MERGER SUB, LP	ANTERO RESOURCES BLUESTONE LLC	MERGER/NAME CHANGE	288					1				
ANTERO RESOURCES BLUESTONE LLC	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE	555					19				
ANTERO RESOURCES CORPORATION	PROFESSIONAL OILFIELD SERVICES INC	PARTIAL ASSIGNMENT	536					123				
PROFESSIONAL OILFIELD SERVICES INC	HG ENERGY II APPALACHIA LLC	TERM ASSIGNMENT OF OIL AND GAS LEASE	61					230				
MARIE COLE AND EDMOND COLE, HER HUSBAND	J.M.L. SMITH	NOT LESS THAN 1/8	62					8				
J.M.L. SMITH AND ROY SMITH, HIS WIFE, ET AL	KEWANEE OIL COMPANY	ASSIGNMENT	68					436				
KEWANEE OIL COMPANY	JOHN S. BAILEY	ASSIGNMENT	71	55								
JOHN S. BAILEY AND MATILDA MCG. BAILEY, HIS WIFE	TRIANGLE OIL COMPANY	ASSIGNMENT	121	702								
7	POS0014	02-0009-0018-0000	POS0014	H. DEE WHITE, M.J. WARREN, AND M.R. WITSMAN, DBA TRIANGLE	CARSON PETROLEUM CORPORATION	ASSIGNMENT	121	702				
				H. DEE WHITE, INDIVIDUALLY; M. R. WITSMAN, INDIVIDUALLY; M.J. WARREN, INDIVIDUALLY; AND, H. DEE WHITE, M.R. WITSMAN AND M. J. WARREN, PARTNERS, DBA TRIANGLE OIL COMPANY	NEW TRIANGLE OIL COMPANY, A PARTNERSHIP CONSISTING OF LESTER D. MOORE, T.W. GEORGE TRUST AND M.R. WITSMAN, PARTNERS	ASSIGNMENT	149	174				
				SOUTHERN TRIANGLE OIL COMPANY, NEW TRIANGLE OIL COMPANY, A PARTNERSHIP, BY LESTER D. MOORE, GENERAL PARTNER, AND LESTER D. MOORE, INDIVIDUALLY	PROFESSIONAL OILFIELD SERVICES INC	ASSIGNMENT	194	277				
				PROFESSIONAL OILFIELD SERVICES INC	BLUESTONE ENERGY PARTNERS	ASSIGNMENT	246	181				

RECEIVED  
Office of Oil and Gas  
JAN 20 2026  
WV Department of  
Environmental Protection

				BLUESTONE ENERGY PARTNERS	BEP MERGER SUB, LP	MERGER/NAME CHANGE	288	1
				BEP MERGER SUB, LP	ANTERO RESOURCES BLUESTONE LLC	MERGER/NAME CHANGE	288	1
				ANTERO RESOURCES BLUESTONE LLC	ANTERO RESOURCES CORPORATION	MERGER/NAME CHANGE	WVSOS	
				ANTERO RESOURCES CORPORATION	CNX GAS COMPANY (50%) AND NOBLE ENERGY INC (50%)	ASSIGNMENT	409	611
				NOBLE ENERGY INC	CNX GAS COMPANY	ASSIGNMENT	377	304
				CNX GAS COMPANY	ANTERO RESOURCES CORPORATION	ASSIGNMENT	387	210
				ANTERO RESOURCES CORPORATION	PROFESSIONAL OILFIELD SERVICES INC	PARTIAL ASSIGNMENT	535	19
				PROFESSIONAL OILFIELD SERVICES INC	HG ENERGY II APPALACHIA LLC	TERM ASSIGNMENT OF OIL AND GAS LEASE	536	123
				ROSA M. HINTER, SINGLE; AND FOREST C. SPURGEON AND ESTER V. SPURGEON, HUSBAND AND WIFE	J.M.L. SMITH	NOT LESS THAN 1/8	61	290
				RICHARD MCCULLOUGH AND CLAIRE MCCULLOUGH, HUSBAND AND WIFE; MICHEAL J. SCULLY AND JEAN SCULLY, HUSBAND AND WIFE; AND J.M.L. SMITH AND ROY W. SMITH, HUSBAND AND WIFE	KEWANEE OIL COMPANY	ASSIGNMENT	62	8
				KEWANEE OIL COMPANY	JOHN S. BAILEY	ASSIGNMENT	68	438
				JOHN S. BAILEY AND MATILDA MCG. BAILEY, HUSBAND AND WIFE	TRIANGLE OIL COMPANY	ASSIGNMENT	71	55
				H. DEE WHITE, INDIVIDUALLY; M. R. WITSMAN, INDIVIDUALLY; M.J. WARREN, INDIVIDUALLY; AND, H. DEE WHITE, M.R. WITSMAN AND M. J. WARREN, PARTNERS, DBA TRIANGLE OIL COMPANY	NEW TRIANGLE OIL COMPANY, A PARTNERSHIP	ASSIGNMENT	149	174
				SOUTHERN TRIANGLE OIL COMPANY, NEW TRIANGLE OIL COMPANY, A PARTNERSHIP, BY LESTER D. MOORE, GENERAL PARTNER, AND LESTER D. MOORE, INDIVIDUALLY	PROFESSIONAL OILFIELD SERVICES INC	ASSIGNMENT	194	277
				PROFESSIONAL OILFIELD SERVICES INC	HG ENERGY II APPALACHIA LLC	TERM ASSIGNMENT OF OIL AND GAS LEASE	536	123
				JAMES J. HINTER LIFE ESTATE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	541	120
				L. WAYNE HINTER LIFE ESTATE	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	541	107
				DAVID S. MARKLE REMAINDER OF WAYNE AND JAMES HINTER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	539	654
				BRYAN MUNDY REMAINDER OF WAYNE AND JAMES HINTER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	542	120
				DENISE LYNETTE HEDRICK NKA DENISE MUNDY REMAINDER OF WAYNE AND JAMES HINTER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	542	118

RECEIVED  
Office of Oil and Gas  
JAN 20 2026  
WV Department of  
Environmental Protection



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

4701707003

October 9, 2025

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

RE: Drilling Under Roads – Barnes 1223 N-1H  
Cove District, Doddridge County  
West Virginia

Dear Mr. Blevins -

HG Energy II Appalachia, LLC is submitting the attached application for a new well work permit for the Barnes 1223 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 Barnes 1223 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](mailto:dwhite@hgenergyllc.com) or 304-420-1119.

Very truly yours,

*Diane White*

Diane C. White

Enclosures

RECEIVED  
Office of Oil and Gas

JAN 12 2026

WV Department of  
Environmental Protection

02/13/2026

4701707003

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 Herald Record Newspaper

**Public Notice Date:** Wednesday, August 6th & Wednesday, August 13th, 2025

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:** Barnes 1223 N-1H

**Address:** 5260 Dupont Road  
Parkersburg, WV 26101

**Business Conducted:** Natural gas production.

**Location –**

State: West Virginia County: Doddridge  
District: Cove Quadrangle: Vadis 7.5'  
UTM Coordinate NAD83 Northing: 4329127.1  
UTM coordinate NAD83 Easting: 524418.5  
Watershed: Fink Creek

**Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: [http://tagis.dep.wv.gov/convert/llutm\\_conus.php](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 57<sup>th</sup> 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](mailto: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 57<sup>th</sup> Street, SE Charleston, WV 25304. Please reference the county, well 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx)

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

02/13/2026

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

**Date of Notice Certification:** 04/19/2024

**API No. 47-** \_\_\_\_\_

**Operator's Well No.** Barnes 1223 N-3H

**Well Pad Name:** Barnes

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>524428.9</u>
County: <u>Doddridge</u>		Northing: <u>4329142.2</u>
District: <u>Cove</u>	Public Road Access: <u>WV18 and CR29</u>	
Quadrangle: <u>Vadis WV 7.5's</u>	Generally used farm name: <u>Barnes</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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><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</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	---

RECEIVED  
Office of Oil and Gas  
**JAN 12 2026**  
WV Department of  
Environmental Protection

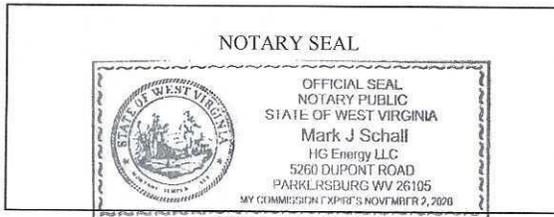
**Required Attachments:**

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

**Certification of Notice is hereby given:**

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

Well Operator:	<u>HG II Appalachia, LLC</u>	Address:	<u>5260 Dupont Road</u>
By:	<u>Diane White</u> <i>Diane White</i>		<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 9th day of October, 2025.

*[Signature]* 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](mailto:depprivacyofficer@wv.gov).

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

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: 10/10/2025 Date Permit Application Filed: 10/24/2025

Notice of:

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

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

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

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

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

SURFACE OWNER(s)

Name: Carolyn Bass  
Address: 832 Elizabeth Avenue  
Salem, VA 24153

Name: Marilyn Barnes  
Address: 771 Barbours Creek Road  
New Castle, VA 24127

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

Name: James Cava  
Address: 190 Ridgeway Drive  
Bridgeport, WV 26330

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: NA  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

RECEIVED  
Office of Oil and Gas  
JAN 12 2026

WV Department of  
Environmental Protection

4701707003

WW-6A  
(8-13)

API NO. 47- -  
OPERATOR WELL NO. Barnes 1223 N1H to S12H  
Well Pad Name: Barnes 1223

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

RECEIVED  
Office of Oil and Gas

JAN 12 2026

**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

02/13/2026

WW-6A  
(8-13)

470-1707003  
API NO. 47- - 1707003  
OPERATOR WELL NO. Barnes 1223 N1H to S12H  
Well Pad Name: Barnes 1223

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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

RECEIVED  
Office of Oil and Gas

JAN 12 2026

WV Department of  
Environmental Protection

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.**

02/13/2026

WW-6A  
(8-13)

4701707003  
API NO. 47-  
OPERATOR WELL NO. Barnes 1223 NH to S12H  
Well Pad Name: Barnes 1223

**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

02/13/2026

WW-6A  
(8-13)

4701707003  
API NO. 47-  
OPERATOR WELL NO. Barnes 1223 N1H to S12H  
Well Pad Name: Barnes 1223

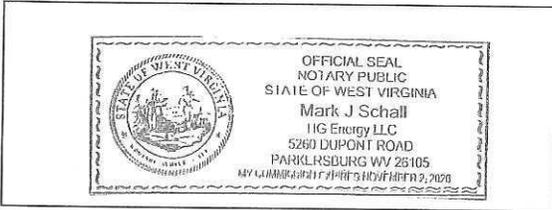
**Notice is hereby given by:**

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](mailto:deprivacyofficer@wv.gov).



Subscribed and sworn before me this 9th day of October, 2025.  
*[Signature]* Notary Public  
My Commission Expires 11/12/2026

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

02/13/2026

**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:** 10/10/2025 **Date Permit Application Filed:** 10/24/2025

**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: Carolyn Bass  
Address: 832 Elizabeth Avenue  
Salem, VA 24153

Name: Marilyn Barnes James Marsh  
Address: 771 Barbours Creek Rd 10153 Webster Road  
New Castle VA 24127 Summersville, WV 26651

**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  
County: Doddridge  
District: Cove  
Quadrangle: Vadis WV 7.5'  
Watershed: Fink Creek

UTM NAD 83 Easting: 4329127.1  
Northing: 524418.5  
Public Road Access: SLS 29  
Generally used farm name: Barnes

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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 *dwhite*  
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

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

**Oil and Gas Privacy Notice:**

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

02/13/2026

4701707003

WW-6A5  
(1/12)

Operator Well No. Barnes 1223 N-1H - S-12H

**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:** 10/10/2025      **Date Permit Application Filed:** 10/24/2025

**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: Carolyn Bass  
Address: 832 Elizabeth Avenue  
Salem, VA 24153

Name: Marilyn Barnes                                      James Marsh  
Address: 771 Barbour's Creek Rd                                      10153 Webster Road  
New Castle, VA 24127                                      Summersville, WV 26651

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>524426.3</u>
County:	<u>Doddridge</u>		Northing:	<u>4329138.4</u>
District:	<u>Cove</u>	Public Road Access:		<u>SLS 29</u>
Quadrangle:	<u>Vadis WV 7.5'</u>	Generally used farm name:		<u>Barnes</u>
Watershed:	<u>Fink Creek</u>			

**This Notice Shall Include:**

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

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

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

RECEIVED  
Office of Oil and Gas  
**JAN 12 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](mailto:depprivacyofficer@wv.gov).

WV Department of  
Environmental Protection

02/13/2026

4701707003



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

Jimmy Wriston, P. E.  
Secretary of Transportation  
Commissioner of Highways

October 5, 2023

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

Subject: DOH Permit for the Barnes 1223 Pad, Doddridge County  
Barnes 1223 N-1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2021-0824 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Doddridge County Route 29 SLS MP 3.01.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE 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,

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

Cc: Diane White  
HG Energy II Appalachia  
OM, D-4  
File

RECEIVED  
Office of Oil and Gas  
JAN 12 2026  
WV Department of  
Environmental Protection

**HG Energy II Appalachia, LLC**  
**List of Frac Additives by Chemical Name and CAS #**  
**Barnes 1223 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	

RECEIVED  
Office of Oil and Gas  
**JAN 12 2026**  
WV Department of  
Environmental Protection

OPERATOR: HG Energy II Appalachia, LLC WELL NO: Barnes 1223 N-1H

PAD NAME: Barnes 1223

REVIEWED BY: Diane White *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

RECEIVED  
Office of Oil and Gas

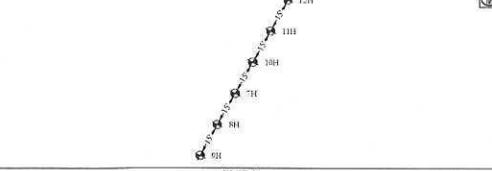
JAN 12 2026

WV Department of  
Environmental Protection

4201707003



Table with 4 columns: Site Entrance, Center of Well Pad, Center of AST Pad, Center of Staging Area. Each column lists coordinates and well pad details.



Well Table with 4 columns (SH, SW, NW, NE) listing well pad coordinates and details.

APPROVED WVDEP OOG 11/27/2023

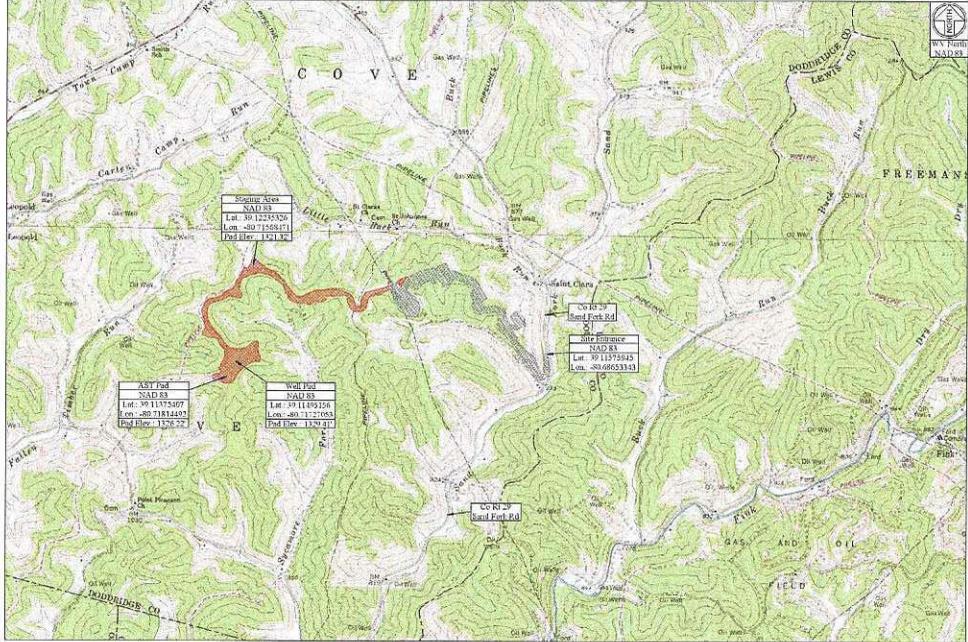
1223 Well Site Site Design, Construction Plan, & Erosion and Sediment Control Plans

RECEIVED Office of Oil and Gas JAN 12 2026 WV Department of Environmental Protection

Pertinent Site Information 1223 Well Site Emergency Number: 304-873-1343

Property Owner Information - 1223 Well Site table listing owner names, acreage, and other details.

Exhibit A: Final Design: Issue for Permitting



Access Road table listing road names, lengths, and construction details.

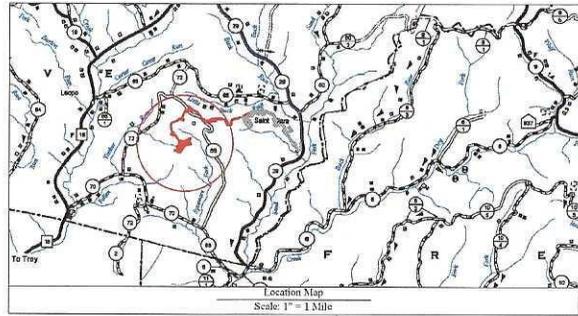
Disturbed Area table listing well pad construction, staging area construction, and other areas.

1223 Well Site Quantities table listing descriptions, quantities, and units for various site components.



Approach Routes:

From the intersection of WV Rt 18 and US Rt 50 near West Union, WV. Turn of South on WV Rt 18 for 14.1 mi. Turn Right into County Route 29, Sand Fork. Follow County Route 29 for 3.0 mi. The site entrance will be on the Right (West) side of the road.



Well Location Restrictions:

- All Pad construction compliant with the following restrictions: \*25' from an existing well or developed spring used for human or domestic animals. \*25' from an occupied dwelling or barn greater than 2,500 SF used for poultry or dairy measured from the center of the pad. \*300' from the edge of disturbance to a naturally reproducing trout stream. \*1,000' of a surface or ground water intake to a public water supply.



Design Certification: The drawings, erection plans and reference diagrams attached hereto have been prepared in accordance with the Virginia Code of Ethics, Division of Environmental Protection, Office of Oil and Gas 58-202a.

Sheet and Description table listing sheet numbers and their corresponding descriptions.

Project Contacts: HG Energy LLC, Jared Steigle - Construction Manager, 780-338-2477

Environmental: Wetland Determinations as provided by Palustris Environmental, dated November 9, 2022.

MISS UTILITY OF WEST VIRGINIA 1-800-246-8848. Know what's below. Call before you dig.

HG Energy LLC will inform an Encroachment Permit (Form MM-109) from the WV Department of Transportation, Division of Highways, prior to the commencement of any construction activities.

Floodplain Conditions table listing various conditions and their status (Yes/No).



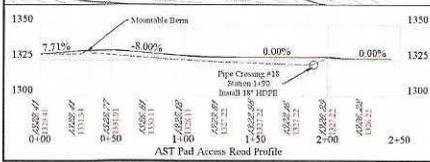
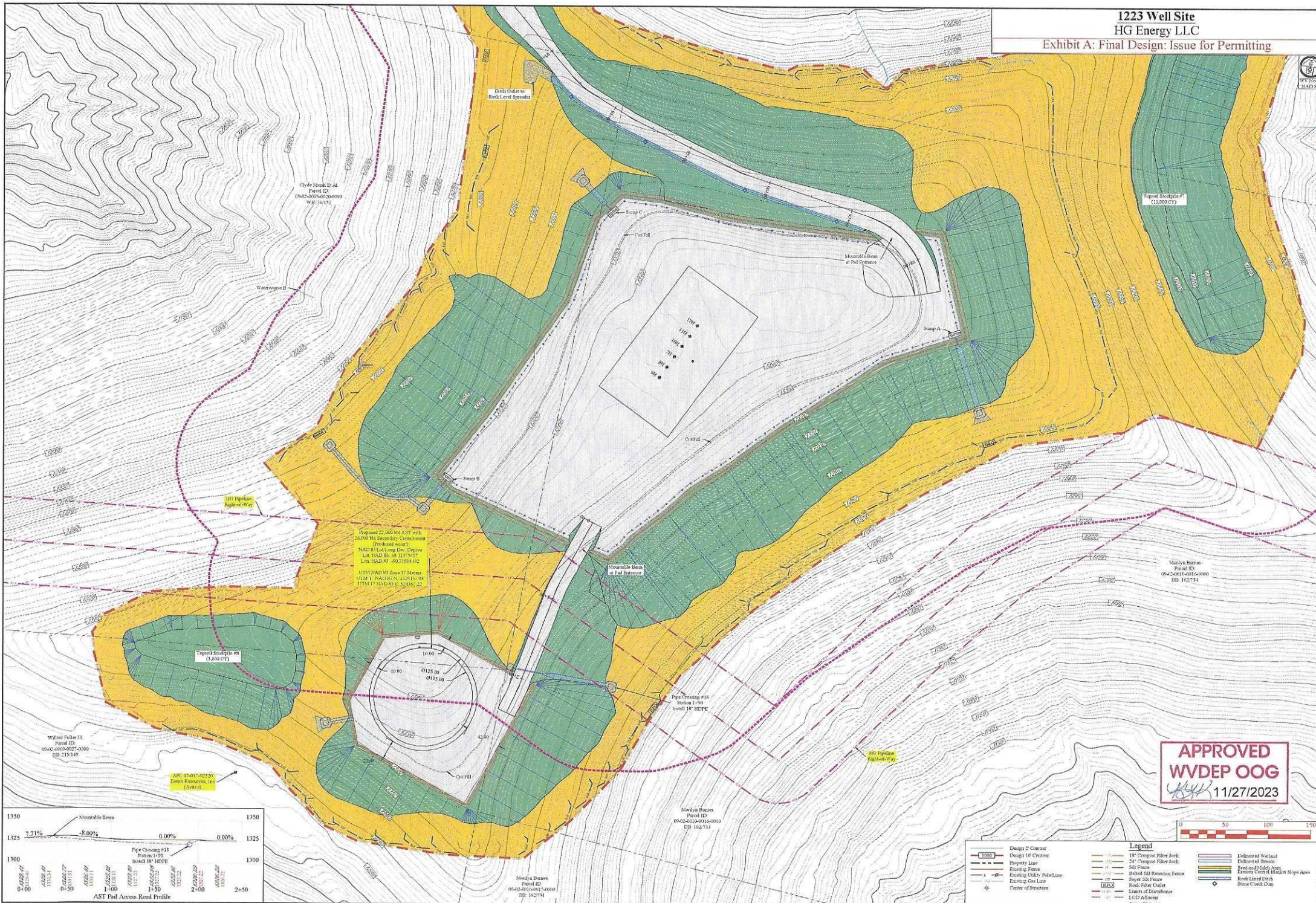
THIS DOCUMENT PREPARED FOR HG ENERGY LLC



1223 Well Site Cove District Doddridge County, WV

4201707003

1223 Well Site  
HG Energy LLC  
Exhibit A: Final Design: Issue for Permitting



**APPROVED WVDEP OOG**  
11/27/2023

0 50 100 150

Legend	
— 1000 —	Design 2: Contour
— 100 —	Design 10: Contour
— 50 —	Property Line
— 25 —	Existing Fence
— 10 —	Existing Utility: Pole Line
— 5 —	Existing Gas Line
+	Center of Structure
— 100 —	18" Comprom Filter Sock
— 24 —	24" Comprom Filter Sock
— 6 —	6" Filter
— 12 —	12" Filter
— 18 —	18" Filter
— 24 —	24" Filter
— 30 —	30" Filter
— 36 —	36" Filter
— 42 —	42" Filter
— 48 —	48" Filter
— 54 —	54" Filter
— 60 —	60" Filter
— 66 —	66" Filter
— 72 —	72" Filter
— 78 —	78" Filter
— 84 —	84" Filter
— 90 —	90" Filter
— 96 —	96" Filter
— 102 —	102" Filter
— 108 —	108" Filter
— 114 —	114" Filter
— 120 —	120" Filter
— 126 —	126" Filter
— 132 —	132" Filter
— 138 —	138" Filter
— 144 —	144" Filter
— 150 —	150" Filter
— 156 —	156" Filter
— 162 —	162" Filter
— 168 —	168" Filter
— 174 —	174" Filter
— 180 —	180" Filter
— 186 —	186" Filter
— 192 —	192" Filter
— 198 —	198" Filter
— 204 —	204" Filter
— 210 —	210" Filter
— 216 —	216" Filter
— 222 —	222" Filter
— 228 —	228" Filter
— 234 —	234" Filter
— 240 —	240" Filter
— 246 —	246" Filter
— 252 —	252" Filter
— 258 —	258" Filter
— 264 —	264" Filter
— 270 —	270" Filter
— 276 —	276" Filter
— 282 —	282" Filter
— 288 —	288" Filter
— 294 —	294" Filter
— 300 —	300" Filter
— 306 —	306" Filter
— 312 —	312" Filter
— 318 —	318" Filter
— 324 —	324" Filter
— 330 —	330" Filter
— 336 —	336" Filter
— 342 —	342" Filter
— 348 —	348" Filter
— 354 —	354" Filter
— 360 —	360" Filter
— 366 —	366" Filter
— 372 —	372" Filter
— 378 —	378" Filter
— 384 —	384" Filter
— 390 —	390" Filter
— 396 —	396" Filter
— 402 —	402" Filter
— 408 —	408" Filter
— 414 —	414" Filter
— 420 —	420" Filter
— 426 —	426" Filter
— 432 —	432" Filter
— 438 —	438" Filter
— 444 —	444" Filter
— 450 —	450" Filter
— 456 —	456" Filter
— 462 —	462" Filter
— 468 —	468" Filter
— 474 —	474" Filter
— 480 —	480" Filter
— 486 —	486" Filter
— 492 —	492" Filter
— 498 —	498" Filter
— 504 —	504" Filter
— 510 —	510" Filter
— 516 —	516" Filter
— 522 —	522" Filter
— 528 —	528" Filter
— 534 —	534" Filter
— 540 —	540" Filter
— 546 —	546" Filter
— 552 —	552" Filter
— 558 —	558" Filter
— 564 —	564" Filter
— 570 —	570" Filter
— 576 —	576" Filter
— 582 —	582" Filter
— 588 —	588" Filter
— 594 —	594" Filter
— 600 —	600" Filter
— 606 —	606" Filter
— 612 —	612" Filter
— 618 —	618" Filter
— 624 —	624" Filter
— 630 —	630" Filter
— 636 —	636" Filter
— 642 —	642" Filter
— 648 —	648" Filter
— 654 —	654" Filter
— 660 —	660" Filter
— 666 —	666" Filter
— 672 —	672" Filter
— 678 —	678" Filter
— 684 —	684" Filter
— 690 —	690" Filter
— 696 —	696" Filter
— 702 —	702" Filter
— 708 —	708" Filter
— 714 —	714" Filter
— 720 —	720" Filter
— 726 —	726" Filter
— 732 —	732" Filter
— 738 —	738" Filter
— 744 —	744" Filter
— 750 —	750" Filter
— 756 —	756" Filter
— 762 —	762" Filter
— 768 —	768" Filter
— 774 —	774" Filter
— 780 —	780" Filter
— 786 —	786" Filter
— 792 —	792" Filter
— 798 —	798" Filter
— 804 —	804" Filter
— 810 —	810" Filter
— 816 —	816" Filter
— 822 —	822" Filter
— 828 —	828" Filter
— 834 —	834" Filter
— 840 —	840" Filter
— 846 —	846" Filter
— 852 —	852" Filter
— 858 —	858" Filter
— 864 —	864" Filter
— 870 —	870" Filter
— 876 —	876" Filter
— 882 —	882" Filter
— 888 —	888" Filter
— 894 —	894" Filter
— 900 —	900" Filter
— 906 —	906" Filter
— 912 —	912" Filter
— 918 —	918" Filter
— 924 —	924" Filter
— 930 —	930" Filter
— 936 —	936" Filter
— 942 —	942" Filter
— 948 —	948" Filter
— 954 —	954" Filter
— 960 —	960" Filter
— 966 —	966" Filter
— 972 —	972" Filter
— 978 —	978" Filter
— 984 —	984" Filter
— 990 —	990" Filter
— 996 —	996" Filter
— 1002 —	1002" Filter
— 1008 —	1008" Filter
— 1014 —	1014" Filter
— 1020 —	1020" Filter
— 1026 —	1026" Filter
— 1032 —	1032" Filter
— 1038 —	1038" Filter
— 1044 —	1044" Filter
— 1050 —	1050" Filter
— 1056 —	1056" Filter
— 1062 —	1062" Filter
— 1068 —	1068" Filter
— 1074 —	1074" Filter
— 1080 —	1080" Filter
— 1086 —	1086" Filter
— 1092 —	1092" Filter
— 1098 —	1098" Filter
— 1104 —	1104" Filter
— 1110 —	1110" Filter
— 1116 —	1116" Filter
— 1122 —	1122" Filter
— 1128 —	1128" Filter
— 1134 —	1134" Filter
— 1140 —	1140" Filter
— 1146 —	1146" Filter
— 1152 —	1152" Filter
— 1158 —	1158" Filter
— 1164 —	1164" Filter
— 1170 —	1170" Filter
— 1176 —	1176" Filter
— 1182 —	1182" Filter
— 1188 —	1188" Filter
— 1194 —	1194" Filter
— 1200 —	1200" Filter
— 1206 —	1206" Filter
— 1212 —	1212" Filter
— 1218 —	1218" Filter
— 1224 —	1224" Filter
— 1230 —	1230" Filter
— 1236 —	1236" Filter
— 1242 —	1242" Filter
— 1248 —	1248" Filter
— 1254 —	1254" Filter
— 1260 —	1260" Filter
— 1266 —	1266" Filter
— 1272 —	1272" Filter
— 1278 —	1278" Filter
— 1284 —	1284" Filter
— 1290 —	1290" Filter
— 1296 —	1296" Filter
— 1302 —	1302" Filter
— 1308 —	1308" Filter
— 1314 —	1314" Filter
— 1320 —	1320" Filter
— 1326 —	1326" Filter
— 1332 —	1332" Filter
— 1338 —	1338" Filter
— 1344 —	1344" Filter
— 1350 —	1350" Filter

Decision  
Design: WVDEP Construction

11/27/2023



THIS DOCUMENT PREPARED FOR HG ENERGY LLC



Erosion and Sediment Control Plan  
1223 Well Site  
Cove District  
Doddridge County, WV

Date: 08/24/2023  
Scale: As Shown  
Designed By: ZS  
File No:  
Sheet 15 of 37