

west virginia department of environmental protection

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

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

Wednesday, June 5, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for BARNES 1223 S-9H 47-017-06977-00-00

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.

Chief

Operator's Well Number:

BARNES 1223 S-9H

Farm Name:

MARILYN BARNES, et al

U.S. WELL NUMBER: Horizontal 6A New Drill

47-017-06977-00-00

Date Issued: 6/5/2024

API Number: <u>4701706977</u>

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.

4701706977

OPERATOR WELL NO. Barnes 1223 S-9H
Well Pad Name: Barnes 1223

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

						/	
1) Well Operator	HG Ene	rgy II Appa	alachia, L	494519932	Doddridge	Cove	Vadis 7.5'
-) <u>F</u>	· ·		-	Operator ID	County	District	Quadrangle
2) Operator's We	ell Number	Barnes 12	223 S-9H	Well	Pad Name: Ba	rnes 1223	
3) Farm Name/S	urface Owr	er: Barnes	s /	Public	Road Access:	SLS 29	
4) Elevation, cur	rent ground:	1329'	EI	evation, propo	sed post-constru	iction: 1335	T .
71	(a) Gas		_ Oil	t	Inderground Sto	orage	
((b)If Gas	Shallow	X	Deep			_
		Horizontal	X				
6) Existing Pad:	-	No -					7
 Proposed Targ Marcellus at 7 					ess and Expected essure at 4314#.		
8) Proposed Tota	al Vertical I)	epth: 71	55'	/			
9) Formation at	Total Vertica	al Depth:	Marcellus	5	• 1		
10) Proposed To	tal Measure	d Depth:	10,417'	/	•		\$
11) Proposed Ho	rizontal Leg	g Length:	2,684'			and the state of t	*
12) Approximate	e Fresh Wate	er Strata De	pths:	150', 220', 3	39'		
13) Method to D	etermine Fr	esh Water I	Depths:	Nearest offset	well data, (47-	017-02490,4	47-017-02542, 2780
14) Approximate			IA				
15) Approximate	e Coal Seam	Depths: 1	53'-158',	428'-438' (Su	rface Casing is	being extend	ded to cover the coal
16) Approximate	e Depth to P	ossible Voi	d (coal mi	ine, karst, othe	r): None		
17) Does Propos directly overlyin				ms Yes _		No X	
(a) If Yes, prov	vide Mine In	fo: Name	:				
		Depth	:	141	Đ	CEIVED	
	21	Seam	:		Office 6	CEIVED of Oil and Gas	
		Owne	er:		MAY	0 6 2024	
					_ WV De	epartment of	



Environmental Protection

WW-6B (04/15)

API NO. 47- 017 - 06977

OPERATOR WELL NO. Barnes 1223 S-9H

Well Pad Name: Barnes 1223

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	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	5750'	5750'	Load - 40% excess, Tall - 0% Excess
Production	5 1/2"	NEW	P-110 HP	23	10417'	10417'	Lood - Yield = 1.19, Tall - yield = 1.94
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	20"	.438				Drilled In
Fresh Water	17.5"	13 3/8"	.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, 40
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94 (
Tubing							
Liners							

PACKERS

Kind:			
Sizes:		 	
Depths Set:		 MARTIN , MATTINE	



OPERATOR WELL NO. Barnes 1223 S-9H 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 7155'. Drill horizontal leg to an estimated 2,684' lateral length, 10,417' 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):

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. reshwater - 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.

tter - *15.6 ppg Class A Neat 94#/sk40% ExcessYield=1.18 / CT

Intermediate - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl40% Excess / Ta ; 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS"

Production = "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC I + 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

ntermediate - Once casing is at setting depth, Circulate and condition mu I at TD. Circulate a minimum of one hole volume prior to pumping cament.

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

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MAY 0.6 2024 WV Department of

*Note: Attach additional sheets as needed.



1223 S-9H

Marcellus Shale Horizontal Doddridge County, WV

								1223 S	-9H SH	L	14	204576.12N 172057	2.18E
Grou	nd Ele	vatio	n		1329			1223 9	S-9H LP		14	203615.49N 172032	2.07E
Grou	Azm	Valio	-		160.57			1223 S	-9H BH	L	14	201085.46N 172121	4.33E
MELL	BORE DI	ACDAM		HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
WELL	BURE DI	AGRAIV		HOLE	CASIIVO	GEOEGGI		-1.0-					
X X X X X X X X X		X X X X X X X X X X	X	20" 17.5"	20" 94# LS 13-3/8" 54.5# J-55 BTC 9-5/8" 40# N-80 BTC	Conductor Coal Coal Coal Fresh Water Protection Little Lime/Big Lime Big Injun/Gantz 50 Foot/Gordon Fifth Bayard	0 580 610 900 0 2290/2345 2401/2755 2861/3042 3213 3286	1300 2 2305/2401 2495/2785 2903/3122 3263 3311	AIR AIR AIR/KCL Salt	N/A, Casing to be drilled in w/ Dual Rotary Rig 15.6 ppg Class A Neat 94#/sk 40% Excess Yield=1.18 / CTS Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc bwoc PNE-1 + 2.5% bwoc bwoc PNE-1 + 2.5% bwoc Dubber PNE-1 + 2.5% bwoc	N/A Bow Spring on every other joint Bow Spring on first 2 joints then every third joint to 100' form	Ensure the hole is clean at TD. Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement. Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one	Surface casing = 0.438" w thickness Intermediate casing = 0.38 wall thickness Burst=2730 psi Intermediate casing = 0.39 wall thickness
x		X X			N-80 BTC	Warren/Speechley Benson / Alexander Intermediate	3594/3807 5213 / 5474 0	3629/3842 5346 / 5604 TVD: 5700' MD: 5750' Inc. 7 deg.	Polymer	CaCl zero% Excess. CTS	surface	hole volume prior to pumping cement.	Burst=5750 psi
X		X		8.75"					AIR / 9.0ppg SOBM	<u>Lead</u> : 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.		
					1	Rhinestreet	6431	6719		EC1 + 0.75 gal/sk FP13L		Once on bottom/TD with	
	m					Cashaqua	6719	6864		+ 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 +		casing, circulate at max allowable pump rate for at	Production casing = 0.41 wall thickness
Х	nvii	X	RECEIVED Office of Oil and		5-1/2" 23#	Middlesex	6864	6943	11.5ppg-	0.35% bwoc R3 + 0.75		least 2x bottoms up, or until	wall thickness Burst=16240 psi
	/iron	1	Cer	8.5" Curve	P-110 HP	West River	6943	7012	12.5ppg	gal/sk FP13L + 50% bwoc ASCA1 + 0.5%		returns and pump pressures indicate the hole is clean.	Note:Actual centralize
	Department mental Prot		单页	4 7 7	TXP/W461	Burkett	7012	7053	SOBM	bwoc MPA170	Run 1 spiral centralizer every 3 joints from the	Circulate a minimum of one	schedules may be chan- due to hole conditions
)art	2	品质			Tully Limestone	7053	7078]	20% Excess Lead Yield=1.19	1st 5.5" long joint to the	hole volume prior to pumping cement.	Account of the County of the
	Pr		an VEI			Hamilton	7078	7129		Tail Yield=1.19	top of the curve.	pamping contone	
	nt o	13	9		1	Marcellus	7129	7182	70.00	CTS			
	WV Department of Environmental Protection		Gas	8.5" Lateral		TMD / TVD (Production)	10416	7155	11.5ppg- 12.5ppg				
		V				Onondaga	7182		SOBM				
X		^_		X	l X				X	X	Χ	X	X
		<u>LESSENSE</u>		/D / 7732' MD			8.5" Hole - Cemente 5-1/2" 23# P-110 H	ed Long String				34' ft Lateral	TD @ +/-7155' TVD

4701706977

API Number 47 -

Operator's Well No. Barnes 1223 S-9H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HG Energy II Appala	chia, 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 V
If so, please describe antic	ipated pit waste: NA
Will a synthetic liner be u	sed in the pit? Yes No V If so, what ml.?
Proposed Disposal Metho	d For Treated Pit Wastes:
	pplication
	ound Injection (UIC Permit Number
	at API Number_TBD - At next anticipated well Disposal (Supply form WW-9 for disposal location) Explain
Will closed loop system be used?	If so, describe:
Drilling medium anticipated for th	s well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air, Altr/KCL, Altr/SOBM, Horizontal - SOBM
-If oil based, what type?	Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling me	dium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Le	ave in pit, landfill, removed offsite, etc. Approved Landfill
-If left in pit and plan to s	olidify what medium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/	permit number? See Attached
Permittee shall provide written not West Virginia solid waste facility. where it was properly disposed.	ice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any The notice shall be provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of provisions of the permit are enfor law or regulation can lead to enfor I certify under penalty of application form and all attachm obtaining the information. I belief	f law that I have personally examined and am familiar with the information submitted on this ents thereto and that, based on my inquiry of those individuals immediately responsible for ve that the information is true, accurate, and complete. I am aware that there are significant mation, including the possibility of fine or imprisonment.
Company Official Signature	Diane White RECEIVED
Company Official (Typed Name)	Diane White Office of Oil and Gas
Company Official Title	Agent MAY 0 6 2024
Subscribed and sworn before me t	
Casa	1 Bac d. Notary Publication Official SEAL
$\frac{Cosn}{\text{My commission expires } 7/31}$	2027 OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRG Cassid Board of Cassid Bo

Form WW-9 Operator's Well No. Barnes 1223 S-9H HG Energy II Appalach a, LLC 51.82 Prevegetation pH Proposed Revegetation Treatment Acres Disturbed _ 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 500 lbs/acre Fertilizer amount 2 Tons/acre Hay Mulch Seed Mixtures Permanent Temporary lbs/acre Seed Type lbs/acre Seed Type 40 Tall Fescue 40 Tall Fescue 5 Ladino Clover 5 Ladino Clover 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 a ea. Photocopied section of involved 7.5' topographic sheet. Plan Approved by Pre-seed/nulch as soon as reasonably possible per regulation. Comments: Upgrade E&S if needed per WV DEP E&S manual. RECEIVED Office of Oil and Gas WV Department of 02/202/2024 Environmental Protection Title: Oil & Gas Inspector

Date:

) No

) Yes

Field Reviewed?

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

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Office of Oil and Gas

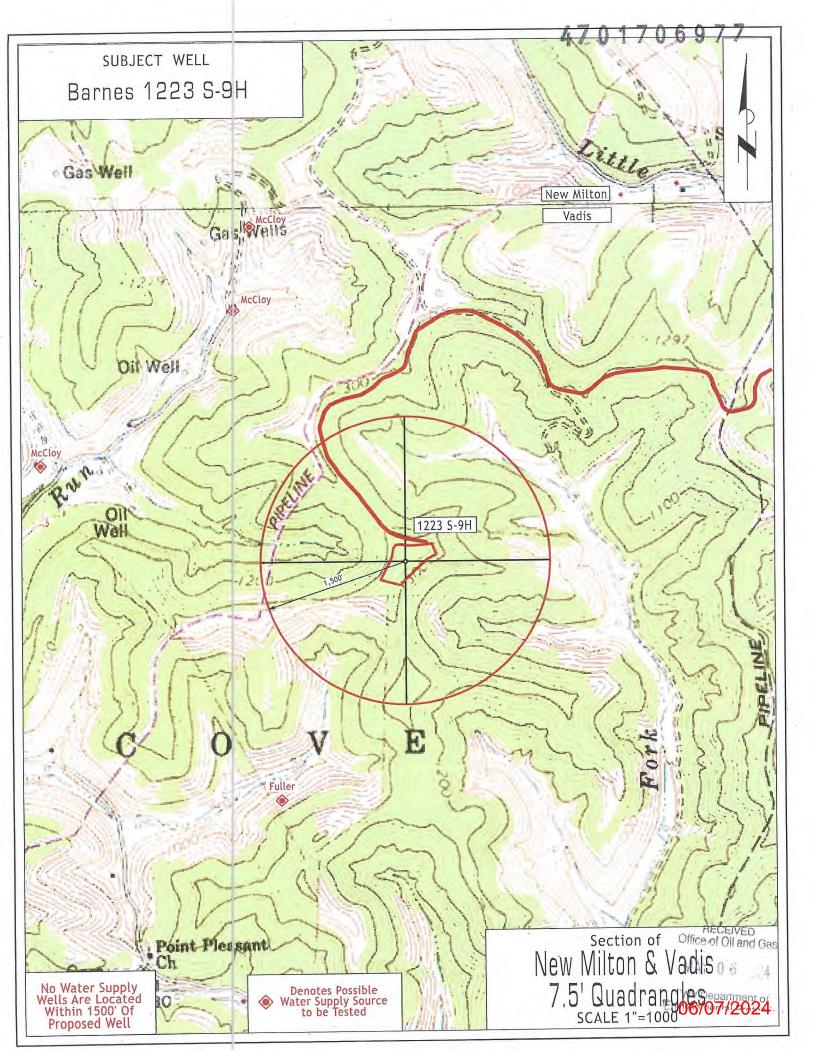
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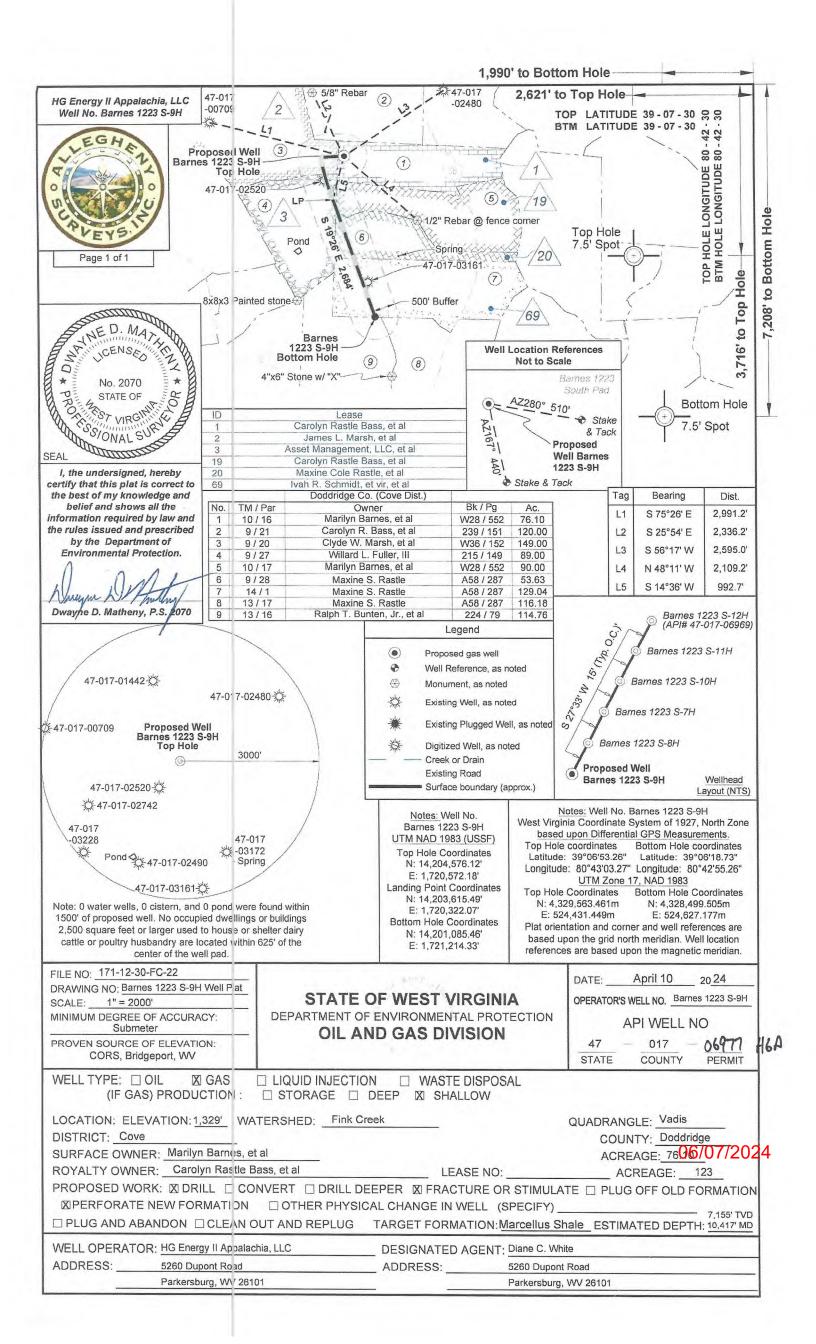
WV Department of Environmental Protection



04/24/2024

fond L. Dregolde 10-16-23





WW-6A1 (5/13)

Operator's Well No. Barnes 1223 S-9년

INF()RMATION 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 roy alty owners have consented to the lawful use or development of the natural gas mineral property on the tract. The interests of the remaining cotenants will be secured pursuant to the Co-Tenancy Act

Horizontal Well Unit Utilization - Subjet to unit lization filing with te 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 Corrs of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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WV Department of Environmental Protection

The applicant further a knowledges 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

Page 1 of 3

HG Energy II Appalachia, LLC Barnes 1223 S-9H Lease Chain

1223S Tract	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
				Carolyn Rastle Bass et al.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	520	5
				Marilyn Rastle Barnes	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	520	
		at calculated and	55235752574	Richard E. Spracklen	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	521	2
1		02-0010-0016-0000	HGII02150 et al	Chad W. Johnson			500	- 1
					HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8		
				James J. Cava, Jr.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	501	
				James L. Marsh et al.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	
				Carol Ann Henry	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	
				Donna Jean Getsinger	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	
				Jane White AKA Carolyn Jane White	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	515	
				Alice Margaret Rastle Taylor	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	514	
				Yvonne Foster	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	514	
				Henry Gray Rastle	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	514	
				Maxine Cole Rastle aka Maxine S. Rastle	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	512	
				Helen J. McClain	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	516	
				Christine A. Davis Wampler	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	512	
				Nroma C. Bowyer AKA Norma Sue (Cole) Bowyer	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	516	
				Cheryl DeWeese	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	
				Richard Gage Spray	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	513	
	A 14			James Edward Postle	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	531	
				Michael Eric Robertson	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	521	
				St. Johannes Lutheran Church of St. Clara,			524	
				by Phyllis Hinterer, Clara Mae Spray, Marion Zorn, Rebecca Strickling,				
2	HGII03136 ET AL	02-0009-0020-0000	N/A	and James Strickling Church Council Members	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8		
2	HGHU3136 ET AL	02-0009-0020-0000	IN/A	Karen Walters Gardner	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	532	
				William Douglas Robertson	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	532	
				Gail Frost Venrick, a/k/a, Gail F. Venrick	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Amanda E. Hamilton	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
	1			Andrew L. Frost	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				George Kent Walters	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Deborah Lee (Spray) Anderson Guy	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
	4 1			Susan Lorraine (Spray) Robertson	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Janet Lynne (Spray) Masimer	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Robert Daniel Spray	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				The Estate of Timothy David Spray, by Cheryl Deweese, Administrator	We suspective appropriately a tree	COTESTANCY ASSIDANT	70	
				V. III.V. B. III.	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Kathleen Postle	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Joel David Robertson	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Randall Bruce Robertson	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT		
				unknown heirs or successors of Eleanor Jean Landis	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Phillip C. Parker aka Philip C. Parker	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Pamela Kinzel AKA Pamela S. Liotta	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70	
				Asset Management, LLC et al.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	526	
				Dale/Peregrine Minerals Fund, LP	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	516	
				Southland Capital Realty Group, LLC	IIO ENERGI II AFFACACIIIA, ECC	NOT LESS TIMIN 1/0	525	
				T. Todd Martin, III, managing member Selwyn H. Turner, III, managing member		NOT LESS THAN 1/8	323	

	1 1			Panacea Energy, Inc.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	529																			
				Upstream Energy, LLC	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	525																			
				Billy R. Powell	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	510																			
				Estate of Nannie Bell Broocks "Red" Womack, Ellen Womack Giles,	ING ENERGY II AFFALACHIA, LEC	NOT EESS TIMN 1/6	0.0	_																		
				Executrix	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8																				
			100	Rawls Energy, LLC			531																			
3	HGII03825 ET AL	02-0009-0027-0000	N/A		US FUEDOVI I POLITICIA VIS	NOT LESS THAN 1/0																				
				James H. Rawls, Managing Member	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	Eno	-																		
				Homer Roberts Collins	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	528	-																		
				Gold City Mineral Partners, LP	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	507																			
				William Kirkpatrick	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533																			
				Sylvia Kirkpatrick	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	533																			
				Marilyn Allen	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	510																			
				James E. Poole, Jr.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	518																			
				Dale Williston Minerals 2012-B, LP	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70																			
				John C. Sipple	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70																			
				Pinebelt Oil & Gas, Inc.	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70																			
				Robert M. Newsome	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70																			
				Petroleum Properties, LLC	HG ENERGY II APPALACHIA, LLC	COTENANCY AFFIDAVIT	70																			
19	HGII03860 ET AL	02-0010-0017-0000	N/A	Carolyn Rastle Bass et al.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	520																			
19	HGIIU3860 ET AL	02-0010-0017-0000	N/A	Marilyn Rastle Barnes	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	520																			
				Maxine Cole Rastle aka Maxine S. Rastle et al.	and the engineering of the con-		526																			
					HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8																				
				Mike Ross, Inc.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	512																			
				Thomas Edward Rastle	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	513																			
	1			Michael Joseph Riley	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				Thomas Robert Riley	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				Patricia Ann Riley fka Patricia Ann Martin	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
		02-0009-0028-0000																				Yvonne Rastle Foster	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	514	
							Alice Rastle Taylor	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	514																
20	HGII03857 ET AL						02-0009-0028-0000 02-0014-0001-0000	HGII02943 et al	Ridgewood Development LLC (Samuel Hammett; managing member)	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68														
		02 0011 0001 0000		Armstrong Land Management (Richard Armstrong; President)	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				Henry G. Rastle	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	516																			
				The Unknown Heirs or Successors of Max Albers	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				The Unknown Heirs or Successors of Gerald Albers	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				The Unknown Heirs or Successors of Nancy Albers	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				Josephine Sanchez	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				John J. Battin, Jr.	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				Jamison M. R. Battin aka Jamison Battin	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				Jennifer M. Battin	HG ENERGY II APPALACHIA LLC	COTENENCY AFFIDAVIT	68																			
				IVAH R. SCHMIDT AND HARVEY B. SCHMIDT, HER HUSBAND; HENRY ALBERS AND ETHEL ALBERS, HIS WIFE; CLARA T. WANSTREET AND HENRY B. WANSTREET, HER HUSBAND; JOHN A. ALBERS AND MARY O ALBERS, HIS WIFE; FRANCIS H. MEANS AND ENDA M. MEANS, HIS WIFE; BEN C. NUCKOLLS AND RUBY G. NUCKOLLS, HIS WIFE; MARGARET RASTLE, WIDOW; CLARK P. BRYSON AND VICTORIA A.																						
60	TOD	02-0014-0001-0000	N/A	BRYSON, HIS WIFE; EVIE E. BODE AND FLORENCE L. BODE, HIS WIFE; WALTER E. BODE AND NOLA J. BODE, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	58																			
69	TBD	02-0014-0001-0000	N/A	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	143																			
					CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	135																			
				CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	328																			
				South Control of the			332	_																		
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	245	_																		
				DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	245																			
				CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE																				
	11 - 1			CONSOL GAS COMPANY CNX GAS COMPANY LLC	CNX GAS COMPANY HG ENERGY II APPALACHIA LLC	MERGER/NAME CHANGE ASSIGNMENT	293 508																			



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

April 15, 2024

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

RE:

Drilling Under Roads - Barnes 1223 S-9H

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 or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

MAY 0 6 2024

WV Department of Environmental Protection WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Pursuant to West Virginia Cod: 22-6A-10(e) prior to filing an application for a permit for a horizontal well the application shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.	nt
Paper: The Herald Record Newspaper	
Public Notice Date: Wednesday, April 3rd & Wednesday, April 10th, 2024	
The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water any thirty day period.	of
Applicant: HG Energy II Appalachia, LLC Well Number: Barnes 1223 S-9H	
Address: 5260 Dupont Road	
Parkersburg, WV 26101	
Business Conducted: Natural gas production.	
Location –	
State: West Virginia County: Doddridge	
District: Cove Quadrangle: Vadis 7.5' LITM Coordinate NA D83 Northing: 4329563.5	_
UTM Coordinate NAD83 Northing: 4329563.5 UTM coordinate NAD83 Easting: 524431.5 Watershed: Fink Creek	_
Coordinate Conversion: To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php	
Electronic notification: To receive an email when applications have been received or issued by the Office of Oil and Gas, visit Office of Oil and Cas, visit) I Gas
http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up. MAY 0 6 20	124
Reviewing Applications: Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested calling the office or by sending an email to DEP.comments@wv.gov .	of ection
Submitting Comments: Comments may be submitted and at https://apps.dep.wv.gov/oog/comments/comments.cfm , or by letter to Permit Review, Office of Oil and Gas, 601 57 th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this approach.	

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

Regardless of format for comment submissions, they must be received no later than thirty days after the permit

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

	e Certification: 04/19/2024	API No	0.4/	
			tor's Well No. Barne	ıs 1223 S-9H
		Well P	ad Name: Barnes	
Notice has l	een given:		Supplied and Decree	
Pursuant to th	e provisions in West Virginia Code §	22-6A, the Operator has provided the	e required parties w	7th the Notice Forms listed
	tract of land as follows:	T	- F04404 F	
State:	West Virginia	UTM NAD 83 Easting		
County:	Doddridge		WV18 and CR29	
District:	Cove	Public Road Access: Generally used farm nam		
Quadrangle:	Vadis WV 7.5's	Generally used farm han	ic. Barries	
Watershed:	Fink Creek			
it has provid information of of giving the requirements Virginia Cod	the secretary, shall be verified and sleed the owners of the surface describe equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen one § 22-6A-11(b), the applicant shall to have been completed by the applicant	bed in subdivisions (1), (2) and (4), ction sixteen of this article; (ii) that the rvey pursuant to subsection (a), sect of this article were waived in writing the proof of and certify to the secret.	subsection (b), sec he requirement was tion ten of this arti by the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
of this article				
Pursuant to that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require	erator has attached proof to this Noti d parties with the following:	ice Certification	OOG OFFICE USE ONLY
Pursuant to that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require	d parties with the following:	ECAUSE NO	
Pursuant to that the Operation *PLEASE CH	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	d parties with the following: NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONI	ECAUSE NO DUCTED	ONLY □ RECEIVED/
Pursuant to that the Ope *PLEASE CH 1. NO	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or	d parties with the following: NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONI	ECAUSE NO DUCTED AS CONDUCTED ECAUSE	ONLY RECEIVED/ NOT REQUIRED
Pursuant to that the Ope *PLEASE CH 1. NO	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONIVEY OF NO PLAT SURVEY WAS NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLATS	ECAUSE NO DUCTED AS CONDUCTED ECAUSE SURVEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
Pursuant to that the Ope *PLEASE CH 1. NO 2. NO 3. NO	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONIVEY OF NO PLAT SURVEY WAS NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLAT SWAS CONDUCTED OF WRITTEN WAIVER BY SU	ECAUSE NO DUCTED AS CONDUCTED ECAUSE SURVEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED RECEIVED/
Pursuant to that the Ope *PLEASE CH 1. NO 2. NO 3. NO	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONIVEY OF NO PLAT SURVEY WAS NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLAT SWAS CONDUCTED OF WRITTEN WAIVER BY SU	ECAUSE NO DUCTED AS CONDUCTED ECAUSE SURVEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED/ NOT REQUIRED

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.

MAY 0 6 2024

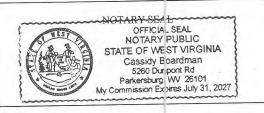


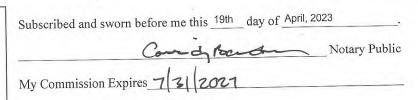
WW-6AC (1/12)

Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I Diane White 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.

5260 Dupont Road Well Operator: HG II Appalachia, I.LC Parkersburg, WV 26101 Diane W Diane White By: Facsimile: 304-863-3172 Agent Its: Email: dwhite@hgenergyllc.com 304-420-1119 Telephone:





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 statuto y 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.

> RECEIVED Office of Oil and Gas

MAY 0 6 2024

WV Department of Environmental Protection WW-6A (9-13)

API NO. 47- 0 1 7 0 6 9 7 7 OPERATOR WELL NO. Barnes 1223 N1H to S12H Well Pad Name: Barnes 1223

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS $\underline{\text{NOTICE OF APPLICATION}}$

Notice Time Requirement: notice shall be provided no later to	than the filing date of permit application.	
Date of Notice: 10/13/23 Date Permit Application Filed: 1	0/19/23	
PERMIT FOR ANY CERTIFICATE OF A WELL WORK CONSTRUCTION O	PPROVAL FOR THE F AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)	
☐ PERSONAL ☐ REGISTERED ☐ MET	THOD OF DELIVERY THAT REQUIRES A	
	CEIPT OR SIGNATURE CONFIRMATION	
registered mail or by any method of delivery that requires a receip sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be led oil and gas leasehold being developed by the proposed well work described in the erosion and sediment control plan submitted pursupport or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, combined in the surface tract or well work, if the surface tract is to be used for the placement, combined in section nine of this article; (5) have a water well, spring or water supply source located within or provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the appliance of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is records.	d the well plat to each of the following persons: (1) The ocated; (2) The owners of record of the surface tract or to, if the surface tract is to be used for roads or other land a suant to subsection (c), section seven of this article; (3) It proposed to be drilled is located [sic] is known to be untracts overlying the oil and gas leasehold being developed struction, enlargement, alteration, repair, removal or abar (a) Any surface owner or water purveyor who is known to be thousand five hundred feet of the center of the well paind (6) The operator of any natural gas storage field with the tenants in common or other co-owners of interests do cant may serve the documents required upon the person on eight, article one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the land provide the Well Site Safety Plan ("WSSP") to the surface traction of the surface traction of the surface traction of the surface to the surface to the surface traction of the surface tractio	owners of record of racts overlying the disturbance as The coal owner, aderlain by one or ed by the proposed andonment of any the applicant to ad which is used to in which the described in described in the otwithstanding any andowner. W. Va.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Noti	ce ☑ Well Plat Notice is hereby provided to:	
☑ SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE	
Name: Carolyn Bass	Name: NA	5
Address: 832 Elizabeth Avenue	Address:	5.1
Salem, VA 24153	- COLL OPER LEOR	-
Name: Marilyn Barnes	COAL OPERATOR	
Address: 771 Barbours Creek Road	Name: NA	
New Castle, VA 24127	Address:	-
SURFACE OWNER(s) (Road an I/or Other Disturbance)	SURFACE OWNER OF WATER WELL	-
Name: James Cava	AND/OR WATER PURVEYOR(s)	
Address: 190 Ridgeway Drive Bridgeport, WV 26330		RECEIVED
Name:	Name: NA Address:	Office of Oil and Gas
Address:	☑ OPERATOR OF ANY NATURAL GAS STOP	RAGE FIELD 6 20
☐ SURFACE OWNER(s) (Impoundments or Pits)	Name: NA	
Name:	Address:	WV Department or Environmental Protection
Address:	*Please attach additional forms if necessary	

47 0 1 7 0 6 9 7 7
API NO. 47OPERATOR 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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occur ied 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 d'velling 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

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 realth departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

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

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

Written Comment:

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

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

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WV Department of

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

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 subdivision; (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

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

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

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

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WV Department of Environmental Protection

Well Pad Name: Barnes 1223

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

304-420-1119 Telephone:

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 depp ivacyofficer@wv.gov.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Mark J Schall HG Energy LC 5260 DUPONT ROAD PARKERSBURG V V 26105 MMISSION EXPIRES NO TEMBER 2,2

Subscribed and sworn before me this 9th day of October

Notary Public

My Commission Expires

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MAY DE MA

WV Department of **Environmental Protection** WW-6A3 (1/12) Operator Well No. Bames 1223 N-1H to S-12H

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

		d at least SEVEN (7) days but no more than F	ORTITIVE (IE) days prior to
entry Date of Notice	: 10/03/2023 Date of Planne	d Entry: 10/10/2023	
Delivery meth	od pursuant to West Virginia Code	§ 22-6A-10a	
		■ METHOD OF DELIVERY THAT REQ	IIIRES A
PERSON.		RECEIPT OR SIGNATURE CONFIRM	
SERVICE			
on to the surface but no more that beneath such trowner of miner and Sediment (Secretary, whice	ce tract to conduct any plat surveys re an forty-five days prior to such entry ract that has filed a ceclaration pursua rals underlying such tract in the coun Control Manual and the statutes and r	or to filing a permit application, the operator shaquired pursuant to this article. Such notice shatto: (1) The surface owner of such tract; (2) to ant to section thirty-six, article six, chapter tweety tax records. The notice shall include a state rules related to oil and gas exploration and propormation, including the address for a web page secretary.	any owner or lessee of coal seams enty-two of this code; and (3) any ement that copies of the state Erosion duction may be obtained from the
Notice is here	by provided to:		
■ SURFAC	E OWNER(s)	☐ COAL OWNER OR LESS	SEE
	yn Barnes	Name: NA	
1011101	Barbours Creek Road	Address:	
	Castle, VA 24127		
Name: Carol	yn Bass		
	Elizabeth Avenue	■ MINERAL OWNER(s)	
	n, VA 24153	Name: **See Attached Sheet**	
Name: Jame	es L Marsh	Address:	
Address: 1015	3 Webster Road		-
Sumr	mersville, WV 26651	*please attach additional forms if nece	ssary
a plat survey of	est Virginia Code § 22-6A-10(a), not on the tract of land as follows: West Virginia	Tipprox. Editide to Zong	operator is planning entry to conduc 39.115066/80.717274 SLS 29
County: District:	Doddridge Cove Vadis	watershed.	Fink Creek Barnes
District: Quadrangle: Copies of the may be obtain Charleston, W obtained from	state Erosion and Sediment Control Need from the Secretary, at the WV De	Generally used farm name: Manual and the statutes and rules related to oil partment of Environmental Protection headquare f such documents or additional information revv.gov/oil-and-gas/pages/default.aspx.	and gas exploration and production arters, located at 601 57 th Street, SE
County: District: Quadrangle: Copies of the may be obtain Charleston, W obtained from	state Erosion and Sediment Control Med from the Secretary, at the WV De VV 25304 (304-926-0450). Copies of the Secretary by visiting www.dep.v	Generally used farm name: Manual and the statutes and rules related to oil partment of Environmental Protection headquarts or additional information revv.gov/oil-and-gas/pages/default.aspx. Address: 5260 Dupont Road	and gas exploration and production arters, located at 601 57 th Street, SE lated to horizontal drilling may be RECEIVED Office of Oil and Gas
County: District: Quadrangle: Copies of the may be obtain Charleston, W obtained from Notice is her	state Erosion and Sc diment Control Maded from the Secretary, at the WV De VV 25304 (304-926-0450). Copies on the Secretary by visiting www.dep.vireby given by: If: HG Energy II Appalachia LLC 304-420-1119	Generally used farm name: Manual and the statutes and rules related to oil partment of Environmental Protection headquarts or additional information revv.gov/oil-and-gas/pages/default.aspx. Address: 5260 Dupont Road	and gas exploration and production arters, located at 601 57 th Street, SE lated to horizontal drilling may be
County: District: Quadrangle: Copies of the may be obtain Charleston, Wobtained from Notice is her Well Operator	state Erosion and Sc diment Control Maded from the Secretary, at the WV De VV 25304 (304-926-0450). Copies on the Secretary by visiting www.dep.vireby given by: HG Energy II Appalachia LLC	Generally used farm name: Manual and the statutes and rules related to oil partment of Environmental Protection headquarts or additional information revv.gov/oil-and-gas/pages/default.aspx. Address: 5260 Dupont Road	and gas exploration and production arters, located at 601 57 th Street, SE lated to horizontal drilling may be RECEIVED Office of Oil and Gas

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.

06/07/2024

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-6(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.

in-10(a) nave 1	VOT DOOR MOUNT IN THE I VOLICE OF MILENE TO DA				
Notice Time Re Date of Notice:	equirement: Notice shall be provided at least 09/29/2023 Date Permit A	TEN (10) days p	rior to filing a : 10/15/2023	permit application.	
Delivery metho	od pursuant to West Virginia Code § 22-6A	-16(b)			
_					
HAND	CERTIFIED MAIL				
DELIVER'	Y RETURN RECEIPT REQUES	TED			
receipt requested in the subsection of this subsection may and if available,	Va. Code § 22-6A- 6(b), at least ten days prid or hand delivery, give the surface owner not ontal well: <i>Provided</i> , That notice given pursuon as of the date the notice was provided to the waived in writing by the surface owner. It facsimile number and electronic mail address by provided to the SURFACE OWNER	otice of its intent to the surface owner: The notice, if requires of the operator a	o enter upon the (a), section te Provided, howeled, shall included.	ne surface owner's land for the purpose on of this article satisfies the requirement vever, That the notice requirements of this ude the name, address, telephone number	
	lyn Bass	Name:	Marilyn Barnes	James Marsh	
	Elizabeth Avenue	Address:	771 Barbours Cre		
Sale	m, VA 24153	***************************************	New Castle VA 24	127 Summersville, WV 26651	
State: Value of County: County: County	er's land for the purpose of drilling a horizon Nest Virginia Doddridge	UTM NAD 83	Easting: Northing:	524442.0 4329583.7	
	Cove			SLS 29 Barnes	
Z	Vadis WV 7.5'	Generally used	rarm name.	Dames	
This Notice S Pursuant to We facsimile numb	chall Include: est Virginia Code § 22-6A-16(b), this notice over and electronic mail address of the operation on the Section of the Street, SE, Charleston, WV 25304 (304-5)	tor and the opera retary, at the WV	ator's authorized Department o	ed representative. Additional information of Environmental Protection headquarters	
Notice is here		Authorized F	Representative:	Diane White	
Well Operator:	HG Energy II Appalach a, LLC 5260 Dupont Road	Address:	- T . 4 - 10111111111111111111111111111111111	5260 Dupont Road	
Address:				Parkersburg, WV 26101	
Telephone:	Parkersburg, WV 2610 I 304-420-1119	Telephone:		304-420-1119	
	JUT-TAU-1119			001 120 1110	
Email.	dwhite@happorayllc.orm	Email:			
Email: Facsimile:	dwhite@hgenergyllc.cc m Diane White 304-863-3172	Email: Facsimile:		dwhite@hgenergyllc.com	

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. DEEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

WV Department of Environr 06/07/2024

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WW-6A5 (1/12)

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

D 1	a.	- J wat to Wast	Vincinia Codo S	22 64 16(c)			
Denve	ry metn	od pursuant to West	virginia Code §	22-0A-10(c)		,	
	CERTIFI	ED MAIL		HAND		•	
I	RETURN	N RECEIPT REQUES	STED	DELIVERY			
return the pla require drilling damag (d) The of noti	receipt reanned op ed to be p g of a ho ges to the e notices ice.	equested or hand del seration. The notice provided by subsection orizontal well; and (3) surface affected by original surface affected by original well;	very, give the surfarequired by this son (b), section ten o) A proposed surfail and gas operation shall be given to	ace owner whose land ubsection shall include of this article to a surface use and compens as to the extent the date of the surface owner and the surface o	will be used for the compact of the country with the country with the country will be used for the coun	eation, an operator shall, by certifier the drilling of a horizontal well no of this code section; (2) The informed land will be used in conjunction we containing an offer of compensation and the containing and the shariff at the din the records of the sheriff at the	mation with the ion for hapter.
(at the	address	listed in the records of	f the sheriff at the	time of notice):			
Name:		n Bass		Name:	Marilyn Barnes	James Marsh	
Addres	SS: 832 Eli	zabeth Avenue		Address	: 771 Barbours Cree	The state of the s	
	Salem,	VA 24153	λ.		New Castle, VA 241	27 Summersville, WV 26651	
County District Quadra Waters	et: cangle: cshed:	Doddridge Cove Vadis WV 7.5' Fink Creek all Include:	2-6A-16(c) this no	Public Road A Generally use	d farm name:	SLS 29 Barnes code section; (2) The information re	equired
to be horizo surface inform headqu	provided ontal well e affecte nation re	by W. Va. Code \{\}; and (3) A proposed d by oil and gas operated to horizontal draward at 601 57th S	22-6A-10(b) to a surface use and co rations to the exter- illing may be obta	surface owner whose ompensation agreement the damages are contined from the Secret	a land will be un that containing an ompensable und ary, at the WV	ased in conjunction with the drilling offer of compensation for damages or article six-b of this chapter. Add Department of Environmental Proof by visiting	

DEP's Chief Privacy Officer at der privacyofficer@wv.gov.

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WV Department of Environmental Protection

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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

October 5, 2023

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

Subject: DOH Permit for the Barnes 1223 Pad, Doddridge County Barnes 1223 S-9H 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,

Sary K. Clayton. Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy II Appalachia

OM, D-4

File

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	
PROC EL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCAL E CLEAR SI 112	107-21-1	
PROEREAK 4	Mixture	57-50-1
		107-21-1
Sulfa nic Acid	5329-14-6	
PRO Flow - 102-N	Mixture	67-63-0
	- 1	68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

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WV Department of Environmental Protection

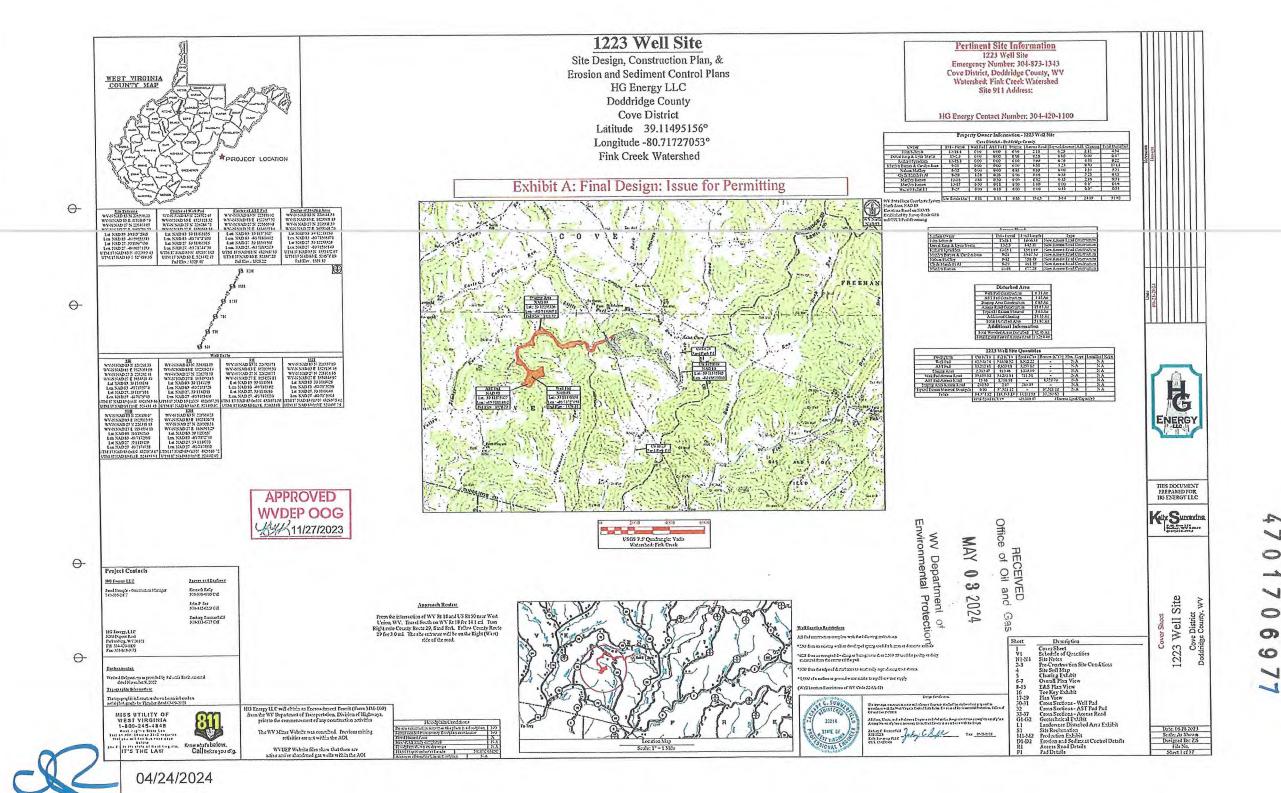
WV Department of Environment 6/07/2024

OPERATOR: HG Energy II Appalachia, LL		WELL NO: Barnes 1223 S-9H		
PAD NAME:_	Barnes 1223			
REVIEWED E	y: Diane White	SIGNATURE: _	Diane White	

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restr	ictions	
	At Least 100 Feet from Pad and LOD (including any E&S Control Featu Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	re) to any
	DEP Waiver and Permit Conditions	
\checkmark	At Least 300 Feet from Pad and LOD (including any E&S Control Featu Naturally Producing Trout Stream; OR	re) to any
	DEP Waiver and Permit Conditions	
\checkmark	At Least 1000 Feet from Pad and LOD (including any E&S Control Feat Groundwa er Intake or Public Water Supply; OR	ure) to any
	DEP Waiver and Permit Conditions	
\checkmark	At Least 250 Feet from an Existing Water Well or Developed Spring to Drilled; OR	Well Being
	Surface Owner Waiver and Recorded with County Clerk, OR	
	DEP Variance and Permit Conditions	
\checkmark	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	
\checkmark	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square of the Pad; OR	Feet to the Center
	Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED Office of Oil and Gas
	DEP Variance and Permit Conditions	MAY 0.6 2024



04/24/2024

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