

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

Thursday, January 20, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for BURNSIDE 1214 S-4H

47-041-05729-00-00

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

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

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

James A. Martin

Chief

Operator's Well Number: BURNSIDE 1214 S-4H

Farm Name: JOHN K BURNSIDE ET AL

U.S. WELL NUMBER: 47-041-05729-00-00

Horizontal 6A New Drill

Date Issued: 1/20/2022

API Number:	
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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.

CO	ND	Ш	O	NS

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

API Number:	

PERMIT CONDITIONS

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.

4704105729
API NO. 47OPERATOR WELL NO. Burnside 1214 S-4H
Well Pad Name: Burnside 1214

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

				The Section of				0 1 7 51
) Well Operator:	HG Energy	II Appala	achia, 🛔	49451993		Lewis	10.00	Camden 7.5'
				Operator		County	District	Quadrangle
2) Operator's Wel	l Number: Bui	rnside 12	214 S-41	H W	ell Pad	Name: B	urnside 1214	
3) Farm Name/Su	rface Owner:	John K E	Burnside	etal Pub	lic Roa	d Access:	Mare Run Rd	at CR 10/9
4) Elevation, curre	ent ground:	1160'	El-	evation, pro	posed	post-const	ruction: 1159.2	20'
5) Well Type (a	a) Gas X		Oil		_ Unde	rground S	torage	
0	ther							
(t	7		X	D	еер			0 0.0
		izontal	Х					5000
6) Existing Pad: \		V 2 2 2 10 2 5	15 1 1 1 1 1 1		A. Y V			12/3/20
7) Proposed Targe	et Formation(s), Depth(s), Antic	ipated Thic	kness a	nd Expect	ed Pressure(s):	
Marcellus at 66	85'/6767' and 8	2 in thick	ness. Ar	iticipateo pi	essure	at 43 14#.		
8) Proposed Total	l Vertical Dept	h: 6693	3'					RECEIVED
9) Formation at T	otal Vertical D	epth: _	Marcellu	S				Office of Oil and Ga
10) Proposed Tot	al Measured D	epth: 2	26,791'					DEC 16 2021
11) Proposed Hor	rizontal Leg Le	ngth:	18,704					WV Department of
12) Approximate	Fresh Water S	trata Dep	ths:	803', 950				Environmental Protect
13) Method to De	etermine Fresh	Water D	epths:	Nearest of	fset we	II data, (4	7-041-00283, (0210,)
14) Approximate	Saltwater Dep	ths: No	ne found	1				
15) Approximate	Coal Seam De	pths: 51	0', 910'	', 915' (Su	irface (casing is	being extende	d to cover the coal
16) Approximate	Depth to Poss	ible Void	(coal m	ine, karst, o	other):	None		
10) - ippromission			coal sea	ms			No X	
17) Does Propose directly overlying	ed well location g or adjacent to	an activ	e mine?	Yes			_ 140	
17) Does Propose directly overlying	g or adjacent to	an activ		Yes			_ 110	
17) Does Propose	g or adjacent to	an activ	_	Yes	-		_ 110	
17) Does Propose directly overlying	g or adjacent to	an activ	_	Yes				

WW-6B	
(04/15)	

API NO. 47-_____ OPERATOR WELL NO. Burnside 1214 S-4H Well Pad Name: Burnside 1214

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120' /	Drilled In
	20"	NEW	J-55	94	1050'	1050'	CTS
Fresh Water/Coal	13 3/8"	NEW	J-55 BTC	68	2050'	2050'	CTS
Intermediate 1 Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2850'	2850'	CTS
Production	5 1/2"	NEW	P-110 HP	23	26791'	26791'	CTS
Tubing						1.	
Liners							

3000

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate I	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% except, Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Least 40% excess, Tail 0% Excess La
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	2015 excess yield = 1,12, toll yield 1 toll
Tubing							
Liners							

PACKERS

	PACKERS	Office of Oil and Gas
Kind:		DEC 16 2021
Sizes:		W Department of Environmental Protection
Depths Set:		

WW-6B	
(10/14)	

API NO. 47			
OPERATOR	WELL	NO.	Burnside 1214 S-4H
Well Pad N	lame:	Bumsi	de 1214

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 6693'. Drill horizontal leg to estimated 18,704' lateral length, 26,791' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 12,500 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 6.32 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 4.12 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing Freshwater/Code, centralized every joints to surface. Instrumedate 1 - Bow Spring on every joint, will also be unning ACP for isolating storage zone Intermedate 2 - Bow Spring on first 2 joints then every third joint to 100° from surface. Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5° long joint to the top of the curve.

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

Conductor 4/04, Casing to be cread in two class draws (9).

First Midestricks - 156 ppg PNE-1 + 3% bring CCQ, 40% Excess Yield = 1.20, CTS

Intermediate 1 - Least: 15.4 ppg PNE-1 + 2.5% bring Cod. 40% Excess / Tail: 15.9 ppg P

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.

Fresh WasterCod-Once casing is a setting depth, circulate a minimum of one hole volume with Fresh Wasterprior to pumping coment.

Intermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.

Intermediate 2 - Once casing is at setting depth, Circulate and condition and at TD. Circulate a minimum of one hole volume prior to pumping cement.

Production - Once on becomptT0 with casing, circulate at max allowable pump rate for at least 2x becomes up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

^{*}Note: Attach additional sheets as needed.

HG Energy II Appalachia, LLC Burnside 1214 Well Pad (N-1H, N-2H, N-3H, S-4H, S-5H, S-6H) Cement Additives

	Material Type	Material Description	CAS#	1	
		Premium NE-1 is a portland cement with	Ingredient name	%	CAS number
		early compressive	Portland cement Calcium oxide	90 - 100 1 - 5	65997-15-1 1305-78-8
		strength properties.	Magnesium oxide	1 - 5	1309-48-4
remium NE-1	Portland Cement	A STATE OF THE STA	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
		Commonly called gel, it is a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite	90 - 100	1302-78-9
		control excessive free	Crystalline silica: Quartz (SIO2)	5 - 10	14808-60-7
		water.			
entonite	Extender				
		A powdered, flaked or			
		pelletized material used	Ingredient name	%	CAS number
		to decrease thickening	Calcium chloride	90 - 100	10043-52-4
		time and increase the rate			
- Call (i	BOOK FAM	of strength development			
cium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Ingredient name	%	CAS number
		cellophane flakes used as	No hazardous ingredient	-	Orac Halling
		a lost circulation material.			
o Flake	Lost Circulation				
		FP-13L is a clear liquid			
		organic phosphate			
		antifoaming agent used in			
		cementing operations. It	Ingredient name	%	CAS number
		is very effective	Tributyl phosphate	90 - 100	126-73-8
		minimizing air			
		entrapment and preventing foaming			
		tendencies of latex			
		systems.			
13L	Foam Preventer				
			Ingredient name	%	CAS number
		Used to retard cement	Sucrose	90 - 100	57-50-1
nulated Sugar	Retarder	returns at surface.	(0)/00/0		
		A proprietary product			
		that provides expansive			
		properties and improves	Ingredient name		CAS number
			iniciredient name		
		bonding at low to moderate		%	
		moderate temperatures.	Calcium magnesium oxide	90 - 100	37247-91-9
ı		moderate			
ı		moderate temperatures. Multi-purpose polymer			
		moderate temperatures. Multi-purpose polymer additive used to control			
		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss,	Calcium magnesium oxide Ingredient name	90 - 100	37247-91-9
	Gat Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas	Calcium magnestum oxide	90 - 100	37247-91-9
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss,	Calcium magnesium oxide Ingredient name	90 - 100	37247-91-9
1 A-170	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas	Calcium magnesium oxide Ingredient name	90 - 100	37247-91-9
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide).	Calcium magnesium oxide Ingredient name	90 - 100	37247-91-9
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with	Calcium magnesium oxide Ingredient name No hazardous ingredient	90 - 100	37247-91-9
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be	Calcium magnesium oxide Ingredient name No hazardous ingredient	90 - 100	37247-91-9
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	Calcium magnesium oxide Ingredient name No hazardous ingredient	90 - 100	CAS number CAS number 14808-60-7
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and ges migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement	Calcium magnesium oxide Ingredient name No hazardous ingredient	90 - 100	CAS number
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create	Calcium magnesium oxide Ingredient name No hazardous ingredient	90 - 100	CAS number CAS number 14808-60-7
	Gas Migration	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2) Calcium oxide Office of Oil and Confice of Oil and Con	90 - 100 % 3a5 5 - 10 1 - 5	CAS number CAS number 14808-60-7
-170		moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create light weight cement slurries used as either a filler slurry or a sulfate	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2) Calcium oxide Office of Oil and Confice of Oil and Con	90 - 100 % 3a5 5 - 10 1 - 5	CAS number CAS number 14808-60-7
-170	Gas Migration Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. 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	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2) Calcium oxide Office of Oil and Confice of Oil and Con	90 - 100 % 3a5 5 - 10 1 - 5	CAS number CAS number 14808-60-7
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A-170	Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. 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. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiQ2) Calcium oxide Office of Oil and	90-100 % Gas 5-10 1-5 21 ont of cotection % 40-50	CAS number CAS number 14808-60-7 1305-78-8 CAS number Trade secret.
	Base	moderate temperatures. Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration. 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. A low temperature retarder used in a wide range of slurry formulations to extend	Ingredient name No hazardous ingredient Ingredient name Crystalline silica: Quartz (SiO2) Calcium oxide Office of Oil and Oil	% % % % % % % % % % % % % % % % % % %	CAS number 14808-60-7 1305-78-8 CAS number Trade secret.

202 Prote *** Storage String *** CTS *** RECEIVED e of Oil and o 15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements) B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Fosm / D202 - 0.15% BWOB 1214 S-4H 9 WV Departri 능 Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess -Marcellus Shale Horizontal 15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements) ENERGY EC B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / Lewis County, WV DB01 - 0.03 gal / sack Retarder - 0% Excess 1214 S-4H SHL 5 14206317.938N 1775721.605E 1214 S-4H LP Ground Elevation 1159 14205095.34N 1773604.89E 160.539° 1214 S-4H BHL 14187466.22N 1779834.36E Azm WELLBORE DIAGRAM CASING GEOLOGY TOP BASE CEMENT CENTRALIZERS CONDITIONING COMMENTS HOLE 30" 157.5# N/A, Casing to be drilled Ensure the hole is clean at Conductor casing = 0.5" wall N/A 30" AIR in w/ Dual Rotary Rig TD. thickness LS n Conductor 120 Once casing is at setting Fresh Water 0 200, 550, 800 15.6 ppg Class A Neat depth, circulate a minimum Surface casing = 0.438" wall 20" 94#/sk Centralized every 3 26" AIR of one hale valume with thickness Kittaning Coal 910 915 94# J-55 40% Excess joints to surface Fresh Water pror to Burst=2110 psi Yield=1.18 / CTS Fresh Water pumping cement. 0 1050 Protection Little Lime 1464 1482 Once casing is at setting See above (LEFT) for Bow Spring on every depth, Circulate and 1509 1589 AIR / KCL Storage String Cement ioint Intermediate casing = 0.480" Big Lime 13-3/8" 68# condition at TD. Circulate a Blend to Meet DTI 17.5 Salt "will also be running wall thickness J-55 BTC Injun / Gantz (Storage) 1571 / 1854 1679 / 191 minimum of one hole Polymer Requirements for Gas ACP for isolating Burst=3450 psl volume prior to pumping Storage Field Isolation storage zone* 2050 Intermediate 1 cement. Fifty / Thirty Foot 1970 / 2069 1990 / 2084 Once casing is at setting 15.6 ppg Class A Bow Spring on first 2 depth. Circulate and Gordon Stray / Gordon 2099 / 2134 2136 / 2214 AIR / KCL 94#/sk Intermediate casing = 0.395" joints then every third condition mud at TD. 9-5/8" 40# 1% Calcium BWOC 12.25" 5th Sand 2354 2399 Salt wall thickness J-55 BTC joint to 100' form Circulate a minimum of one 40% Excess Burst=3950 psi Polymer 2464 / 2764 2434 / 2729 Bayard / Warren surface hole volume prior to Yie d=1.2 / CTS pumping cement. Intermediate 2 2850 Speechley 3065 3080 Run 1 spiral centralizer AIR / Balltown 3178 3238 every 5 joints from the 8.75" Vertical 9.0ppg top of the curve to Bradford 3841 SOBM surface. 4362 4374 Benson Class A 14.8 ppg Once on bottom/TD with 6255 Rhinestreet 6009 Yield 1.34 casing, circulate at max D255 - 0.4% BWOB 6255 6355 Cashaqua allowable pump rate for at Production casing = 0.415" Fluid Loss least 2x bottoms up, or until 5-1/2 wall thickness 6387 Middlesex 6355 D198 - 0.55% BWOB 11.5ppq-23# returns and pump Burst=16240 osi Retarder 8.5" Curve 12.5ppg P-110 HP West River 6387 6458 pressures indicate the hole Note: Actual centralizer D047 - 0.02 gal / sack SOBM CDC HTQ Run 1 spiral centralizer is clean. Circulate a schedules may be changed Burkett 6458 6468 Anti Foam every 3 joints from the minimum of one hole due to hole conditions D208 - 0.05% BWOB 6468 6576 Tully Limestone 1st 5.5" long joint to the volume prior to pumping Viscosifier top of the curve. cement. Hamilton 6576 6685 10% Excess 6757 Marcellus 6685 11.5ppg TMD / TVD 8.5" Lateral 26791 6693 12.5ppg (Production) SOBM Onondaga 6767 X III X 8.5" Hole - Cemented Lana String LP @ 6693' TVD / 8087' TD @ +/-6693' TVD +/-18704' ft Lateral 5-1/2" 23# P-110 HP CDC HTQ +/-26791' MD X X X X Х X X

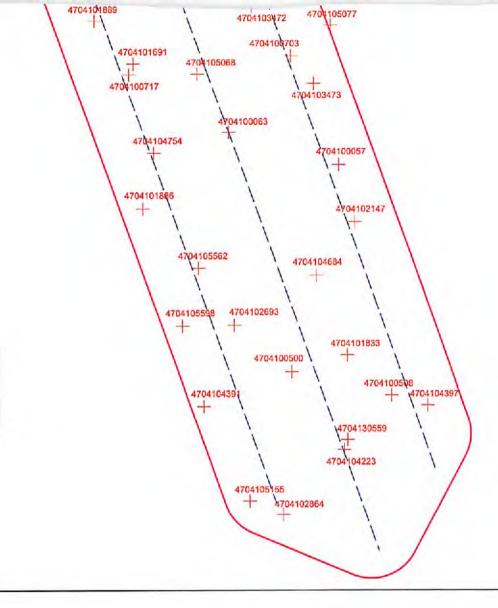
API Number 47 -	
Operator's Well No.	Burneida 1214 S.4

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

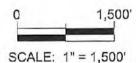
Operator Name HG Energy II Appalachia, LLC	OP Code 494501907
Watershed (HUC 10) Middle West Fork Creek	Quadrangle Camden 7.5'
Do you anticipate using more than 5,000 bbls of water Will a pit be used? Yes No V	
Will a synthetic liner be used in the pit? Yes	
Proposed Disposal Method For Treated Pit W	rastes:
Land Application Underground Injection (U	
Reuse (at API Number TB Off Site Disposal (Supply Other (Explain	D - At next anticipated well () form WW-9 for disposal location)
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 disposet site or landfill.
Drilling medium anticipated for this well (vertical and	horizontal)? Air, freshwater, oil based, etc. Vordool - Ale, Ale/RCL, Ale/SOBM, Horizontal - SOBM
-If oil based, what type? Synthetic, petroleur	n, etc. Synthetic
Additives to be used in drilling medium? Water, Soap	, KCI, 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	n will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? Se	e Attached
	Oil and Gas of any load of drill cuttings or associated waste rejected at any provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the provisions of the permit are enforceable by law. Violaw or regulation can lead to enforcement action. I certify under penalty of law that I have papplication form and all attachments thereto and the content of the conten	rms and conditions of the GENERAL WATER POLLUTION PERMIT issued. West Virginia Department of Environmental Protection. I understand that the elations of any term or condition of the general permit and/or other applicable personally examined and am familiar with the information submitted on this hat, based on my inquiry of those individuals immediately responsible for ation is true, accurate, and complete. I am aware that there are significant the possibility of fine or imprisonment.
Company Official Signature Drane W	Office of Oil and Gas
Company Official (Typed Name) Diane White	DEC 1 6 2021
Company Official Title Agent	WV Department of Environmental Protection
Security of the second care and the second car	day of May , 20 21
My commission expires 1/31/2022	Notary Public OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC

	ment: Acres Disturbed	6.32 Prevegetation pl	l
Lime	3 Tons/acre or to correct	ct to pH6.5	
Fertilizer type10-	20-20		
Fertilizer amount_	50	00 lbs/acre	
MulchHay	2	Tons/acre	
		Seed Mixtures	
Tei	mporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5
Attach: Maps(s) of road, location, pit rovided). If water from the p creage, of the land application	and proposed area for lan pit will be land applied, income area.	ad application (unless engineered plans included undersions (L $_{ m X}$ W $_{ m X}$ D) of the pit, and	ding this info have been dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p pereage, of the land application Photocopied section of involve	and proposed area for lan pit will be land applied, inc on area. ved 7.5' topographic sheet.	ad application (unless engineered plans included under the pit, and t	ding this info have been I dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p pereage, of the land application Photocopied section of involve Plan Approved by:	and proposed area for land the pit will be land applied, income area. wed 7.5' topographic sheet.	ad application (unless engineered plans included under dimensions (L \times W \times D) of the pit, and .	I dimensions (L x W), and
Maps(s) of road, location, pit provided). If water from the pacreage, of the land application of the land approved by: Plan Approved by: Pre-seed/	and proposed area for land bit will be land applied, incon area. ved 7.5' topographic sheet. mulch as soon a	ad application (unless engineered plans included under dimensions (L x W x D) of the pit, and th	I dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involv Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incon area. ved 7.5' topographic sheet. mulch as soon a	ad application (unless engineered plans included under dimensions (L \times W \times D) of the pit, and .	I dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p processor of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incon area. ved 7.5' topographic sheet. mulch as soon a	ad application (unless engineered plans included under dimensions (L x W x D) of the pit, and th	I dimensions (L x W), and
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Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incon area. ved 7.5' topographic sheet. mulch as soon a	ad application (unless engineered plans included under dimensions (L x W x D) of the pit, and th	I dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incon area. ved 7.5' topographic sheet. mulch as soon a	ad application (unless engineered plans included under dimensions (L x W x D) of the pit, and th	I dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p processor of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land bit will be land applied, incon area. ved 7.5' topographic sheet. mulch as soon a	ad application (unless engineered plans included under dimensions (L x W x D) of the pit, and th	I dimensions (L x W), and
Attach: Maps(s) of road, location, pit provided). If water from the p acreage, of the land application Photocopied section of involve Plan Approved by: Comments: Pre-seed/	and proposed area for land polit will be land applied, incon area. ved 7.5' topographic sheet. mulch as soon and a seeded per WV [ad application (unless engineered plans included dimensions (L x W x D) of the pit, and the pit and th	regulation. RECE Office of C



4704102963 Well Key
Conventional Vertical Well
Proposed Horizontal Marcellus Well

See Accompanying Spreadsheets



DATA SOURCES WVGES Data Set - 2020; WVDEP Website

Area of Review for:

BURNSIDE 1214 SOUTH UNIT

Proposed 1214 S-4H Proposed 1214 S-5H Proposed 1214 S-6H

Freeman's Creek District, Lewis County, W.Va.

HG ENERGY, II APPALACHIA, LLC

5260 DuPont Road, Parkersburg, WV 26101



EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

BURNSIDE 1214 SOUTH UNIT AND PROPOSED WELLS S-4H, S-5H & S-6H

ст	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100057	Lewis	J B Lovett	Alliance Petroleum Co. LLC	Oriskany	Gas	6997	ACTIVE	39.081562	-80.505203
2	4704100063	Lewis	J W Kemper	Alliance Petroleum Co. LLC	Benson	Gas	4346	ACTIVE	39.082991	-80.511165
3	4704100215	Lewis	Payne Hall	Dominion Energy Transmission, Inc.	Fifth	Storage	2370	ACTIVE	39.117271	-80.529147
4	4704100216	Lewis	Jonathan W & Helen S Foote	Dominion Energy Transmission, Inc.	Gantz	Storage	1860	ACTIVE	39.116920	-80.525927
5	4704100283	Lewis	J S Hall	Hope Natural Gas Company	Greenland Gap Fm	Gas w/ Oil Show	3008	PLUGGED	39.112220	80.521721
6	4704100500	Lewis	Lyle Randolph	LuRay Land, Inc.	Price Fm & equivs	Gas	1521	PLUGGED	39.072713	-80.507865
7	4704100508	Lewis	Lyle Randolph	LuRay Land, Inc.	not available	not available		PLUGGED	39.071679	-80.502419
8	4704100663	Lewis	S Hall	Key Oil Company	Price Fm & equivs	Gas w/ Oil Show	1420	ACTIVE	39.088704	-80.510938
9	4704100703	Lewis	S Hall	Key Oil Company	Up Devonian	Dry w/ O&G Show	1967	ACTIVE	39.086253	-80.507753
10	4704100717	Lewis	S A & C M Hall	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas	1447	ABANDONED	39.085501	-80.516562
11	4704101381	Lewis	James & Lee Ann Hall	Dominion Energy Transmission, Inc.	Price Fm & equivs	Gas	1533	ACTIVE	39.099706	80.525517
12	4704101446	Lewis	S & C Hall	Alamco, Inc.	Undf PRICE blw INJN	Dry w/ Oil Show	1661	PLUGGED	39.089272	-80.520098
13	4704101575	Lewis	James M. Evans	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4548	ACTIVE	39.108789	80.524293
14	4704101658	Lewis	James S. Hall	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4600	ACTIVE	39.102559	80,526802
15	4704101662	Lewis	N A Lovett	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4400	ACTIVE	39.102342	80.515421
16	4704101666	Lewis	M J Hall	Dominion Energy Transmission, Inc.	Benson	Gas	4551	ACTIVE	39.096499	80.517798
17	4704101690	Lewis	Robert D Hall et al	Alliance Petroleum Co. LLC	Benson	Gas	4215	ACTIVE	39.091809	80.518055
18	4704101691	Lewis	Robert D Hall et al	Alliance Petroleum Co. LLC	Benson	Gas	4451	ACTIVE	39.085964	-80.516321
19	4704101704	Lewis	Equitable Gas Co	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4500	ACTIVE	39.103372	80.522098
20	4704101833	Lewis	Lott Hall	Greylock Conventional, LLC	Benson	Gas	4300	ACTIVE	39.073420	-80.504838
21	4704101847	Lewis	Joseph S Hall	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4556	ACTIVE	39.117078	80.519385
22	4704101866	Lewis	F M McKinley	Clem Energy, LLC	Helderberg	Gas	7325	ACTIVE	39.079729	-80.515877
23	4704101889	Lewis	S A & C M Hall	Mountain V, LLC	Helderberg	Gas w/ Oil Show	7140	ACTIVE	39.087821	-80.518423
24	4704101929	Lewis	Jonathan W/Helen S Foote	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4450	ACTIVE	39.116585	-80.527939
25	4704101947	Lewis	Charles Hall	Mountain V, LLC	Benson	Gas	4260	ACTIVE	39.089127	-80.514702
26	4704102075	Lewis	F McKinley	Mountain V, LLC	Benson	Gas	4360	ACTIVE	39.092872	80.510731
27	4704102147	Lewis	J B Lovett	Alliance Petroleum Co. LLC	Benson	Gas	4519	ACTIVE	39.079120	-80.504372
28	4704102305	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	Fifth	Gas	2192	PLUGGED	39.109536	80.515439
29	4704102306	Lewis	Laura H Evans	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas w/ Oil Show	4511	ACTIVE	39.106891	80.519384
30	4704102330	Lewis	A Brown	Ross & Wharton Gas Co. Inc.	not available	not available		ABANDONED	39.104499	-80.519545
31	4704102343	Lewis	F McKinley	Alliance Petroleum Co. LLC	Fifth	Gas	2260	ABANDONED	39.093622	-80.514331
32	4704102373	Lewis	A McKinley	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2500	ABANDONED	39.094782	-80.515820
33	4704102374	Lewis	F McKinley	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2182	ABANDONED	39.090141	80.515956
34	4704102537	Lewis	C E Stout	Enervest Operating LLC	Bradford	Gas	3472	ACTIVE	39.102416	80.518734
35	4704102568	Lewis	C E Stout	Enervest Operating LLC	Greenland Gap Fm	Gas	3533	ACTIVE	39.105883	80.514124
36	4704102620	Lewis	J S Hall	Dominion Energy Transmission, Inc.	not available	Storage	1	ACTIVE	39.117158	80.523002

37	4704102693	Lewis	Lot Hall	Ross & Wharton Gas Co. Inc.	Gantz	Gas	2268	ACTIVE	39.074725	-80.510978
8	4704102708	Lewis	N A Lovett	UNKNOWN	Gantz	Gas	2187	ABANDONED	39.099662	80.520152
9	4704102711	Lewis	Franklin McKinney	Alliance Petroleum Co. LLC	Big Lime	Gas	1542	ACTIVE	39.094057	-80.509864
0	4704102748	Lewis	Geo McKinley	UNKNOWN	not available	not available	-	ABANDONED	39.089127	-80.515818
41	4704102864	Lewis	David D Dunmire	Petroleum Service Partners, Inc.	Benson	Gas	4956	ACTIVE	38.944343	-80.612552
42	4704103472	Lewis	James S Wilson et ux	Key Oil Co.	Benson	Gas	4309	ACTIVE	39.088402	-80.509863
43	4704103473	Lewis	James S Wilson et ux	Key Oil Co.	Benson	Gas	4628	ACTIVE	39.085066	-80.506513
44	4704103711	Lewis	John L Burnside	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4621	ACTIVE	39.107689	-80.529411
45	4704103854	Lewis	Bernard B Jerden	Enervest Operating LLC	Brallier	Gas	5809	ACTIVE	39,102357	80.518897
46	4704104089	Lewis	James S Hall	Enervest Operating LLC	Greenland Gap Fm	Gas	4300	ACTIVE	39.098692	80.523398
47	4704104223	Lewis	James E Trapp	Enervest Operating LLC	Greenland Gap Fm	Gas	4262	ACTIVE	39.069359	-80.505023
48	4704104249	Lewis	Blaine Kershner	Dominion Energy Transmission, Inc.	Fifth	Gas	2145	PLUGGED	39.101601	80,520805
49	4704104354	Lewis	James H Hall trst	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4440	ACTIVE	39.098591	80.513032
50	4704104391	Lewis	Johahan R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3475	ACTIVE	39.071244	-80.512651
51	4704104397	Lewis	Jonathan R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3554	ACTIVE	39.071242	-80.500437
52	4704104684	Lewis	Johathan R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3568	ACTIVE	39.076841	-80.506483
53	4704104754	Lewis	Norma J Gall	Alliance Petroleum Co. LLC	Misc Sands-RILY/BNSN	Gas	3485	ACTIVE	39.082121	-80.515258
54	4704105068	Lewis	Norma J Gall	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4310	ACTIVE	39.085501	-80.512840
55	4704105069	Lewis	James R Myers	Alliance Petroleum Co. LLC	Alexander	Gas	4199	ACTIVE	39.090409	80.506963
56	4704105077	Lewis	James R Myers	Alliance Petroleum Co. LLC	Alexander	Gas	4411	ACTIVE	39.087557	80.505577
57	4704105155	Lewis	Dodson Farms LLC	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3380	ACTIVE	39.067184	-80.510194
58	4704105133	Lewis	James H Hall Trst	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas w/ Oil Show	4576	ACTIVE	39.095668	80.512728
59	4704105545	Lewis	William R Sr & Dixie D Fultineer	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4800	ACTIVE	39.105804	80.525666
-	4704105562	Lewis	National Timber Partners WV 2	Alliance Petroleum Co. LLC	Balltown	Gas w/ Oil Show	3653	ACTIVE	39.077178	-80.512891
60	4704105598	Lewis	National Timber Partners WV 2	Alliance Petroleum Co. LLC	Brallier	Gas	5767	ACTIVE	39.074701	-80.513798
61		Lewis	S A Hall	Key Oil Co.	Brallier	Oil and Gas	4408	ACTIVE	39.090150	80.512812
62	4704105658	Lewis	F White	Reserve Gas Co.	not available	not available	I I	PLUGGED	39.106384	-80.524385
63	4704130141		- 1 / 2 m / 2 m -	Reserve Gas Co.	Hampshire Grp	Gas	2790	PLUGGED	39.108849	-80.525130
64	4704130167	Lewis	Boyd Gum	Hope Natural Gas Company	Hampshire Grp	Gas	2612	PLUGGED	39.108124	-80.526433
65	4704130188	Lewis	J M Evans Heirs	Hope Natural Gas Company	Hampshire Grp	Gas	2354	PLUGGED	39.113245	-80.524946
66	4704130190	Lewis	J A Burnside	Hope Natural Gas Company	Hampshire Grp	Gas	2214	PLUGGED	39.090577	-80.512097
67	4704130387	Lewis	Thomas G Wright	Hope Natural Gas Company	Fifth	Gas	2247	PLUGGED	39.093477	-80.516750
68	4704130522	Lewis	R Harvey Hall	Hope Natural Gas Company	Fifth	Gas	2141	PLUGGED	39.069794	-80.504837
69	4704130559	Lewis	Lot Hall	nope waturai das company	THO	Gas	2141	1100010	22.12.07.37	55.55.55
	DOE MINISTS DA	TACET (202	20) and WVDEP WEBSITE AND	SEELD SURVEYS	YELLOW DENOT	ES WELL WITH TVD > 4,50	0'	GREEN D	ENOTES SURVEYED	WELLS

UPDATED 7/1/2021

Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1975 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

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

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

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4889

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

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

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

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

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

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

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

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

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 RECEIVED.
Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection

02/04/2022

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 804-455-3800

Energy Solutions, LLC Permit # UT 2800249 423 West 300 South Suite 200 Salt Lake City, UT 84101

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

Northern A-1 Environnemental Services Permit ID MID020906814 8947 US 181 North, PO Box 1080 Kalkaska, MI 49646 281-258-9961

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 1.1942 Veterans Memorial Highway Masontown, WV 26542

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

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15801

Disposal Locations:

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

Solidification/Incineration Soil Remediation, Inc. Permit # 02-20753 6065 Arrel-Smith Road Lowelville, OH 44436 530-586-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Dalaware Inc. DBA CMS Oilfield Serv 301 Commerce Drive Mocrestown, NJ 08057

Force, inc. 1380 Rts. 286 Hwy. E, Suite 203 Indiana, PA 15701

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

Equipment Transport 1 Tyler Court Carilsle, PA 17015

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

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

Nichlos 1-A (SWIW #18) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

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

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

02/04/2022

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

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

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 84-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

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

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

OH UIC #1 Bu keya UIC Barnesville 1 & 2 CNX Gas Corr...;any, LLC 1000 Consol Energy Drive Permit # 24-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 804-823-6568

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

Chapin #7 UIC (SWIW #7)
Permit # 84-083-2-4197-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

HG Energy II Appalachia, LLC

Site Safety Plan

Burnside 1214 Well Pad Weston Lewis County, WV 26452

October 2020: Version 1

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

RECEIVED
Office of Oil and Gas

DEC 16 2021

HG Energy II Appalachia, LLC

WV Department of Environmental Protection

5260 Dupont Road

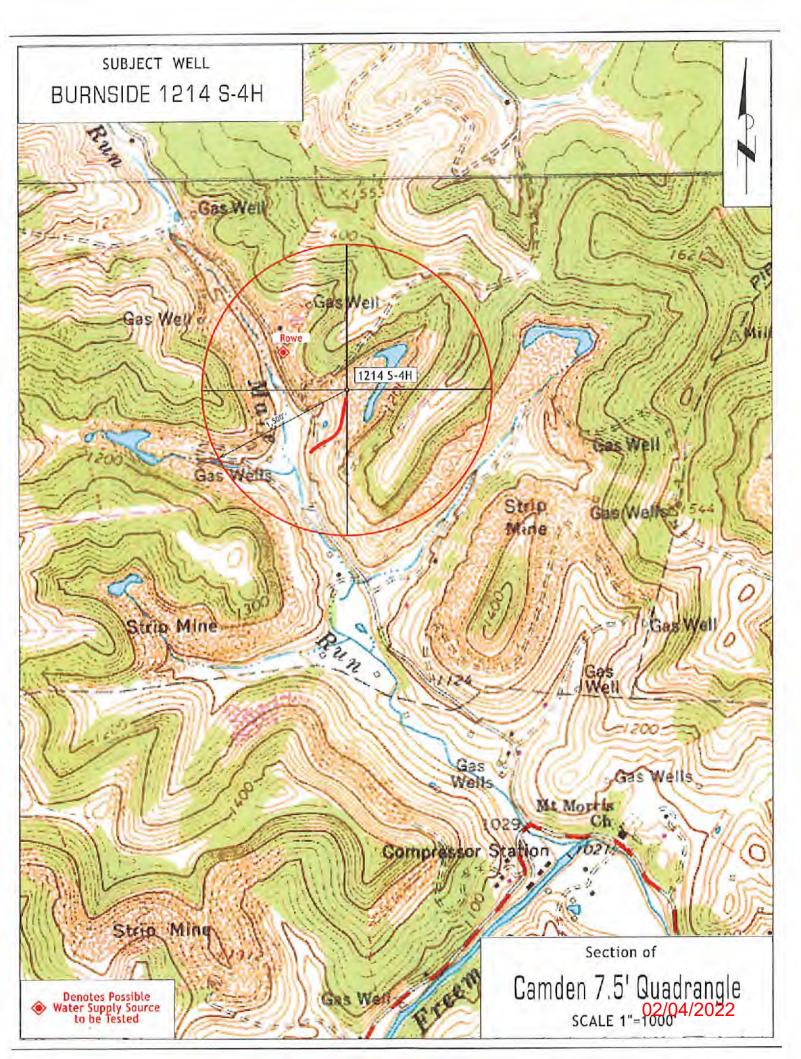
RECEIVED Office of Oil and Gas

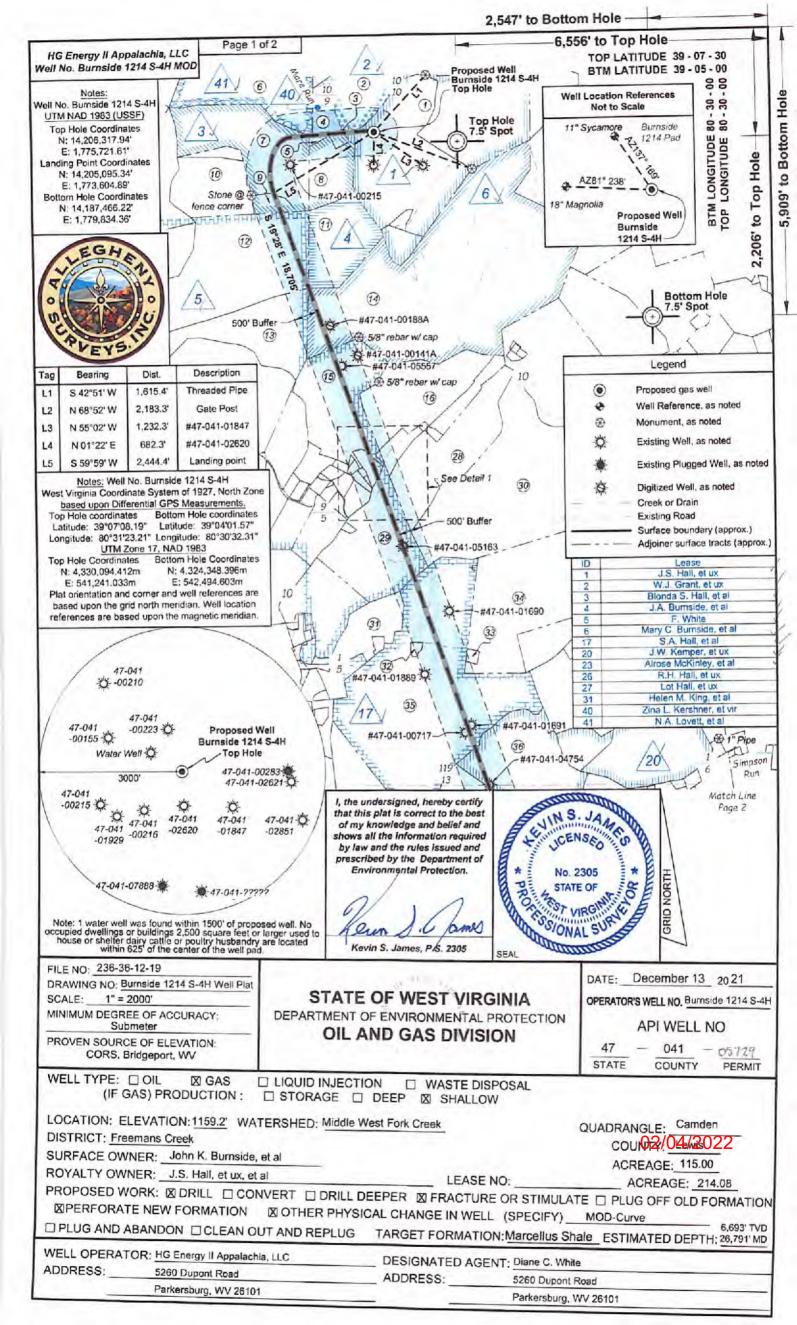
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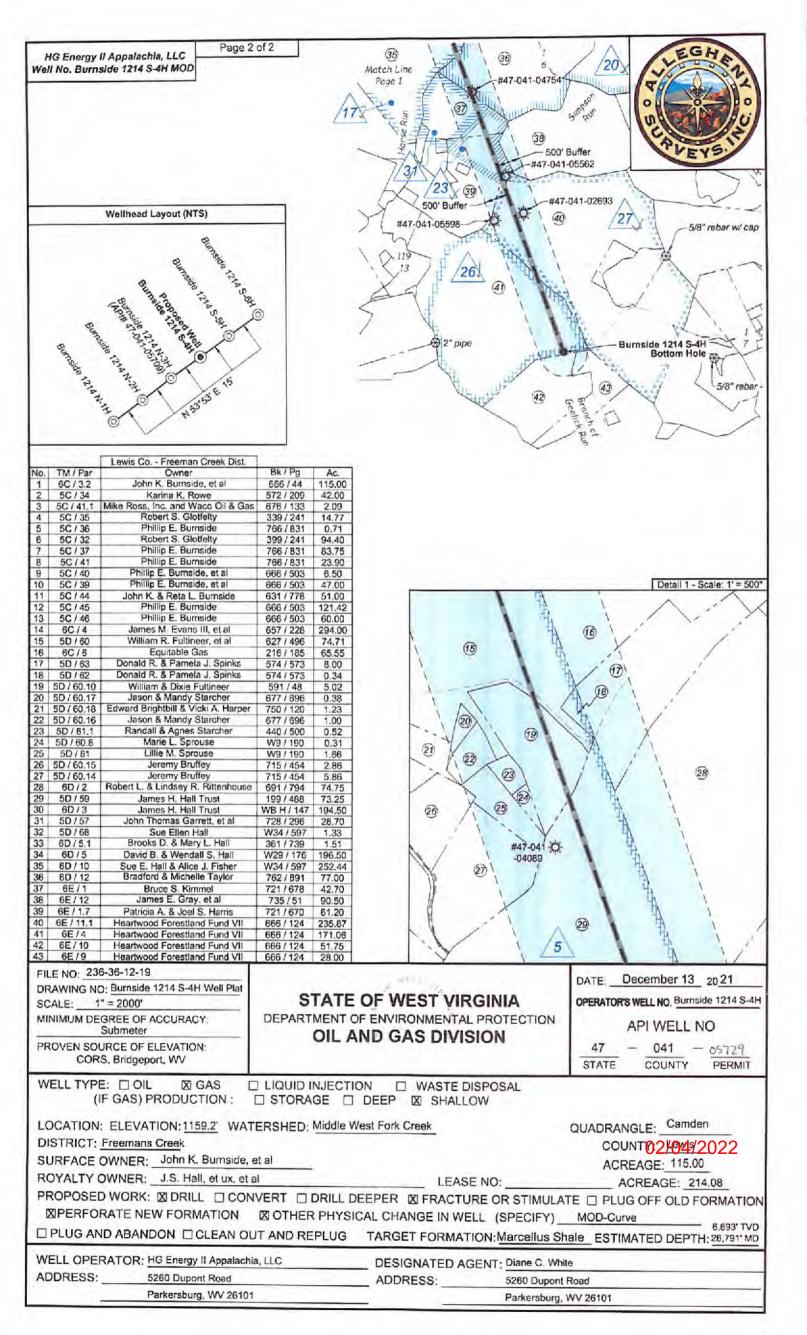
Parkersburg, WV 26101

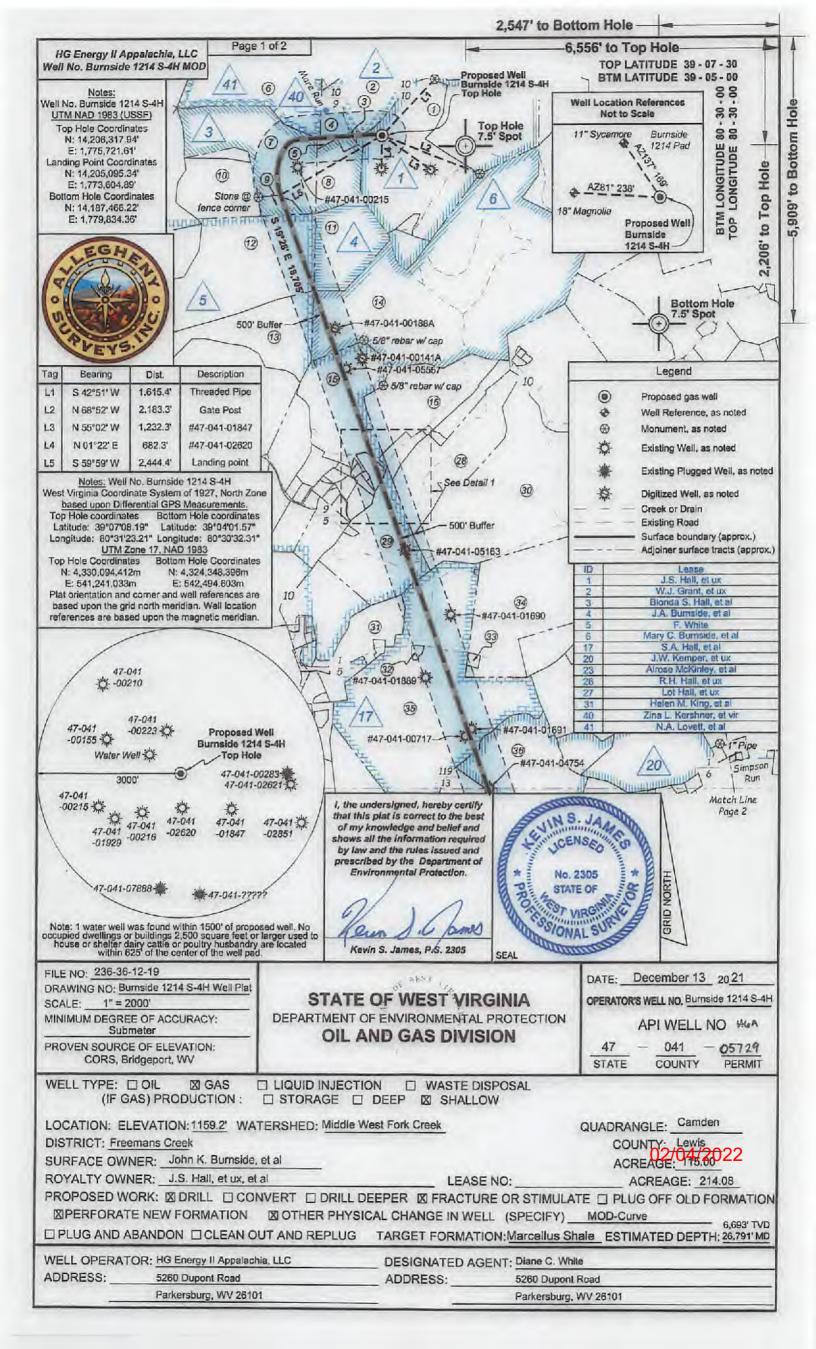
WV Department of Environmental Protection

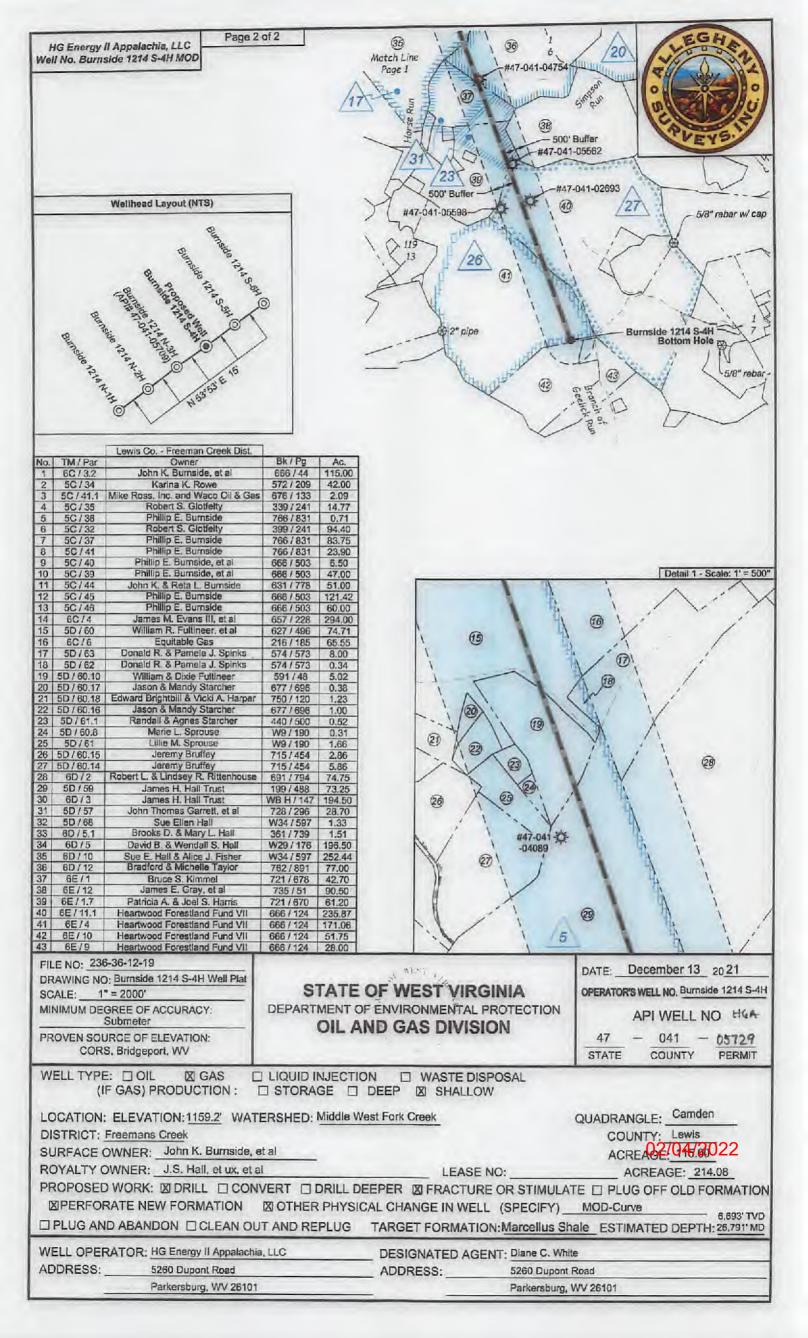
B.S. 10-22-20











W	W-	6A	1
(5/	13)	

Operator's Well	No.	Burnside 1214 S-4H

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

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

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

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

See Attached Sheets

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

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

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

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				

Page 1 of ____

HG Energy II Appalachia, LLC - Burnside 1214 S4H

ŀ								_ ·		
		LEGACY LEASE								
ı	1214S Tract	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE	
I					J. S. HALL AND CORA A. HALL, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	94	
١					SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127	
ı					HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370	
1					RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202	
1					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89	
1					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127	
1					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos		
1					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
1			03-006C-0003-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154	
X	1	FK053143	03-006C-0003-0001	Q101021000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57	
Ί			03-005C-0042-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848	
ł					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1	
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170	
ı					DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
ı					The state of the s		SECOND AMENDMENT TO MEMORANDUM OF			
١					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499	
							THIRD AMENDMENT TO MEMORANDUM OF		-	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558	
ı					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220	
ŀ				 	W. J. GRANT AND ADDIE J. GRANT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	209	438	
1					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89	
1					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127	
١					CONSOLIDATED GAS SOFFEI CONFORMATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wysos		
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
ı					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154	
ı					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57	
Λ					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848	
	2	FK061776	03-005C-0034-0000	Q100936000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1	
1					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170	
1						DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1					DOMINON TRANSIVISSION, INC.	DOWNNON ENERGY TRANSIVISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	***303		
1					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499	
1					DOMINION ENERGY TRANSIVISSION, INC.	ING ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	723	455	
ı					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558	
1					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220	
ŀ		ļ		 		ING ENERGY II AFFADACHIA, EEC	ASSIGNMENT (00%)	750		
1					BLONDA S. HALL AND LUCY S. HALL, HIS WIFE; JAMES H. HALL AND					
-					PATRICIA HALL, HIS WIFE; MABEL HALL, WIDOW; MARJORIE HALL					
-					COSBY AND ROBERT S. COSBY, JR., HER HUSBAND; ROBERTA HALL					
-					STEPHENS AND CHARLES H. STEPHENS, HER HUSBAND; MABEL JANE		NOT 1 555 THAN 4 10	222	449	
١					HALL GIBBS; AND, HERBERT F. GIBBS, JR., HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	222 294	89	
J					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	425	127	
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	WVSOS	12/	
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE			
١			03-005C-0037-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos		
- [· 3	FK064784	03-005C-0037-0000 03-005C-0040-0000	Q101057000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154	
1			03-005C-0041-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57 848	
ı		I I		I	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848	

- 1	1		1	1	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
	l				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					DOWINGN TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	******	
- 1			-		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
					DOMINION ENERGY TRANSMISSION, INC.	ING ENERGY II AFFALACIIIA, LEC	THIRD AMENDMENT TO MEMORANDUM OF		
					DOMAINION ENERGY TRANSMICS (CALL INC.	LIC TAIFDOV II ADDALACINA LLC	FARMOUT AGREEMENT	734	558
					DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
H					DOMINION ENERGY TRANSIVISSION, INC.	no Everor il Appalachia, LCC	ASSIGNATION (00%)	- 750	
			p/o 03-005C-0022-0000 p/o 03-005C-0022-0001 p/o 03-005C-0025-0000	·	F. WHITE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	62
- 1			p/o 03-005C-0027-0002		T. N.BARNSDALL, SOUTHERN OIL COMPANY, AND FRED S. RICH	RESERVE GAS COMPANY	ASSIGNMENT	85	106
			03-005C-0045-0000		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
			03-005C-0046-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
			03-005D-0020-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
			p/o 03-005D-0035-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
ļ			p/o 03-005D-0036-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
	ا ا	FK053097	03-005D-0036-0001	Q100333000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
$\sqrt{ }$	5	FKU33U37	03-005D-0036-0002	Q100353000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
J			03-005D-0037-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
			03-005D-0038-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
			03-005D-0060-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
			03-005D-0060-0001		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
ŀ			THRU 03-005D-0060-0015		DOMINION HARMONISSION, INC.	Common Energy in a new most only in a	SECOND AMENDMENT TO MEMORANDUM OF		
			03-005D-0061-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
			03-005D-0061-0001 03-005D-0062-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
			03-0030-0062-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
ı					J. A. BURNSIDE AND BLANCHE BURNSIDE, HIS WIFE; J. S. HALL,				
- 1					WIDOWER; AND CLAYTON HALL AND NADINE HALL, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	220	307
- 1					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
- 1					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
L					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
$-\lambda$					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
/	4	FK064266	03-005C-0044-0000	Q100978000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
١,	, , , , , , , , , , , , , , , , , , ,	1 11004200	03-003C-0044-0000	Q1003/0000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (3276)	717	1
ĺ					NOBLE ENERGY, INC.		ASSIGNMENT	722	170
- 1						HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					DOMINION TRANSMISSION, INC.	DOWNING ENERGY TRANSPIREDUN, INC.	SECOND AMENDMENT TO MEMORANDUM OF	VV V 303	
					DOMINION ENERGY TRANSMISSION INC	LIC ENEDGY II ADDALACINA LIC	FARMOUT AGREEMENT	723	499
ı					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	723	433
- 1					DOLANGON ENERGY TRANSPARIENCE	HIG TAITE CAN A ADDALACINA LLC	I I	734	558
				1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	736	220
Ļ				ļ	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		
ł				1	MARY C. BURNSIDE AND JOHN L. BURNSIDE, HER HUSBAND	A. W. WOODFORD AND GEO. E. MCGUIRE	NOT LESS THAN 1/8	33	431
I					A. W. WOODFORD	J. M. GUFFEY AND J. H. GALEY	ASSIGNMENT	33	515
					J. M. GUFFEY AND J. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	583
l					THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
l					THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	DEED	125	371
1				l	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	216	185
]			1		EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	192
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
Į		1	1	1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127

	1		1		CONCOLIDATED CAS TRANSPIRATION CORPORATION	Toug Thanks discion connonation	NATIONED (NAME CHANCE	wvsos	
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wysos	
	6	FK052229	03-005C-0043-0000	Q100759000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	672	154
\vee			03-006C-0004-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	684	. 57
ı					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	712	848
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		040
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
					DOMINION ENERGY TRANSPORTING	THE ENERGY IF ALT ASSOCIATION SEC	THIRD AMENDMENT TO MEMORANDUM OF		
		•			DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
⊢						TIG ENERGY IFAFFALACTIA, LEC	ADSIGNMENT (0070)		
					S. A. HALL AND GEORGIA E. HALL, HIS WIFE; AND CLAUDE M. HALL	ALL SCUISABLE AND AND AND AND ENDER COMPANY	NOT LESS THAN 1/9	258	541
- 1					AND NELLE HALL, HIS WIFE	ALLEGHENY LAND AND MINERAL COMPANY	NOT LESS THAN 1/8	401	538
- 1					ALLEGHENY LAND AND MINERAL COMPANY	ALLEGHENY LAND AND MINERAL COMPANY	CONFIRMATORY DEED	457	667
					ALLEGHENY LAND AND MINERAL COMPANY	Alamco, Inc.	MERGER/NAME CHANGE		24
			03-006D-0010-0000		Alamco, Inc.	UMC Petroleum Corporation	ASSIGNMENT	519	557
. V	17	DAD41528	03-005D-0068-0000	DAD41528	UMC Petroleum Corporation	Ashland Exploration Holdings, Inc.	ASSIGNMENT	525	
Ч		51.5 12525	03-006D-0010-0002	57.0 72525	Ashland Exploration Holdings, Inc.	Eastern States Oil and Gas, Inc.	ASSIGNMENT	546	207
		!	00 0000 0000		Eastern States Oil and Gas, Inc.	Blazer Energy Corp.	MERGER/NAME CHANGE	wvsos	
					Blazer Energy Corp.	Equitable Production - Eastern States, Inc.	MERGER/NAME CHANGE	wvsos	
- 1					Equitable Production - Eastern States, Inc.	Equitable Production Company	MERGER/NAME CHANGE	wvsos	
- 1		1			Equitable Production Company	EQT Production Company	MERGER/NAME CHANGE	wvsos	
					EQT PRODUCTION COMPANY	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	770	560
					J. W. KEMPER SR. AND H. S. KEMPER, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	268
			1		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	155	202
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
			l i		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
, l			03-006D-0011-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
√	20		03-006D-0012-0000		DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION INC.	CONFIRMATORY ASSIGNMENT	620	139
			03-006D-0017-0000		DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
			03-006D-0017-0001		DOMINION APPALACHIAN DEVELOPMENT LLC	DOMINION TRANSMISSION, INC.	ASSIGNMENT OF HYDROCARBON LEASES	651	225
					DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
- 1			i I		CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	9	471
					CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
					CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
⊢					HELEN M. KING ET AL	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	314	34
1					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
1					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	432	633
			p/o 03-006E-0001-0000		CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANT	MERGER/NAME CHANGE	wvsos	
. 1	31	111970000	p/o 03-006E-0001-0006	CNX111970000	CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58	366
^	31	111370000	p/o 03-006E-0001-0009	CI4X111370000	DOMINION APPALACHIAN DEVELOPMENT LLC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	225
l			p/0 05-0002-0001-0009		DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
ŀ		i	1		CONSOL ENERGY HOLDINGS LLC XVI	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
			l l		CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
⊢		-			<u> </u>	ING ENERGY II AFFADAGIIA, CCC	ASSIGNMENT		
		1	j l		ALROSE MCKINLEY, DIVORCED; MARIAN MCKINLEY CHALFANT AND B.	1	1		
- 1		1			Y. CHALFANT, HER HUSBAND; LORRAINE MCKINLEY BLACKWOOD,	I		220	30
1			[WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	329 425	29 127
- / L			p/o 03-006E-0001-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		633
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		I	02 0055 0001 0007		CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58	300

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	155	202
CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSIGNMENT	294	89
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26 53244 03-006E-0011-0001 AGREEMENT CNG PRODUCING COMPANY DOMINION EXPLORATION & PRODUCTION INC. MERGER/NAME CHANGE	58	366
03-006E-0011-0002 131356000 DOMINION EXPLORATION & PRODUCTION INC DOMINION TRANSMISSION INC ASSIGNMENT	651	137
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DOMINION TRANSMISSION INC CONSOL ENERGY HOLDINGS LLC XVI ASSIGNMENT	651	318
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CNX GAS COMPANY LLC NOBLE ENERGY, INC. ASSIGNMENT	717	1
NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT	722	170
LOT HALL AND BIRD HALL, HISWIFE EASTERN OIL COMPANY NOT LESS THAN 1/8	40	151
EASTERN OIL COMPANY BUCKHANNON GAS COMPANY ASSIGNMENT	40	578
BUCKHANNON GAS COMPANY J.S. GLENN ASSIGNMENT	85	98
J.S. GLENN SOUTHERN OIL COMPANY ASSIGNMENT	85	98
SOUTHERN OIL COMPANY RESERVE GAS COMPANY ASSIGNMENT	85	106
RESERVE GAS COMPANY HOPE NATURAL GAS COMPANY ASSIGNMENT	158	575
HOPE NATURAL GAS COMPANY LURAY LAND INC. ASSIGNMENT	260	232
LURAY LAND INC. CONSOLIDATED GAS SUPPLY CORPORATION ASSIGNMENT	294	434
CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ASSIGNMENT	425	127
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27 53107 03-005E-0004-0000 AGREEMENT COMPANY COMPANY COMPANY COMPANY MERGER/NAME CHANGE	wvsos	
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CNX GAS COMPANY LLC NOBLE ENERGY, INC. ASSIGNMENT	717	1
NOBLE ENERGY, INC. INCOME ENERGY II APPALACHIA, LLC ASSIGNMENT	722	170
ZINA L. KERSHNER AND F. H. KERSHNER,HER HUSBAND HOPE NATURAL GAS COMPANY NOT LESS THAN 1/8	221	97
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		57
	712	848
40 FK064311 03-005C-0035-0000 Q100856000 DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (32%)	717	1
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SECOND AMENDMENT TO MEMO	723	499
DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT		433

		1		1	I	<u> </u>	THIRD AMENDMENT TO MEMORANDUM OF	T	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
					N. A. LOVETT AND S. E. A. LOVETT, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	109
					SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
1					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
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	1				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
- 1	i		1		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
\checkmark	41	FK053161	03-005C-0032-0000 03-005C-0033-0000	33-0000 Q100334000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
							SECOND AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
							THIRD AMENDMENT TO MEMORANDUM OF		
			1	l	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558 220
- 1			1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

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

November 8, 2021

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

RE:

Drilling Under Roads – Burnside 1214 S-4H Freemans Creek District, Lewis County

West Virginia

Dear Mr. Blevins:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Burnside 1214 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 Burnside 1214 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

API No. 47-

WW-6AC (1/12)

Date of Notice Certification: 05/07/2021

RECEIVED
Office of Oil and Gas

DEC 16 2021

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GMS Department of Environmental Protection NOTICE CERTIFICATION

		(Operator's Well No. Bumside 1214 S-4H				
		•	Well Pad N	ame: Burnside	Well Pad		
Notice has b	oeen given:						
	e provisions in West Virginia Code §	22-6A, the Operator has provi	ded the req	uired parties w	ith the Notice Forms listed		
	tract of land as follows:						
State:	West Virginia		Easting:	541241.0			
County:	Lewis		Northing:	4330094.4			
District:	Freemans Creek		_ Public Road Access: _ Generally used farm name:		Mare Run Road / CR 10/9		
Quadrangle:	Camden WV 7.5's	Generally used far			Burnside		
Watershed: Middle West Fork Creek							
Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a reof giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the not requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY OOG OFFICE USE ONLY							
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED		
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or □ NO PLAT SURVE	Y WAS CO	ONDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR POWAS CONDUCTED or			☐ RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFA	CE OWNER			
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED		
■ 5. PUF	BLIC NOTICE				☐ RECEIVED		
■ 6. NO	TICE OF APPLICATION				□ RECEIVED		
L							

Required Attachments:

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

Certification of Notice is hereby given:

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

 Well Operator:
 HG II Appalachia, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

 Telephone:
 304-420-1119
 Email:
 dwhite@hgenergyllc.com



Subscribed and sworn before me this 3rd day of May, 2021

Costid, Rock Motary Public

My Commission Expires 731/2022

Oil and Gas Privacy Notice:

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

RECEIVED Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection WW-6A (9-13) API NO. 472 7 0 4 1 0 5 7 2 9
OPERATOR WELL NO. Burnside 1214 N/H - SGH
Well Pad Name: Burnside 1214

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

Noti	ice Time Requirem	ent: notice shall be provided no later that	an the filing date of permit application.			
	e of Notice: 07/01/21	Date Permit Application Filed: 7/01	/21			
Not	ice of:					
V	PERMIT FOR AN	Y CERTIFICATE OF API	PROVAL FOR THE			
IV.			AN IMPOUNDMENT OR PIT			
	WELL WORK	CONSTRUCTION OF	AN INI CONDINENT ON 111			
Deli	ivery method purst	ant to West Virginia Code § 22-6A-10	0(b)			
П	PERSONAL	☐ REGISTERED ☑ METH	IOD OF DELIVERY THAT REQUIRES A			
	SERVICE		IPT OR SIGNATURE CONFIRMATION			
sedi the soil a desco oper mor well imp have prov prop subs reco prov Cod	ment control plan reconsurface of the tract or and gas leasehold being tribed in the erosion are to or lessee, in the erosal seams; (4) The lower, if the surface oundment or pit as doe a water well, spring wide water for consumposed well work activated to the sheriff requision of this article to the R. § 35-8-5.7.a reconstruction of the sheriff requision of this article to the R. § 35-8-5.7.a reconstruction of the sheriff requision of this article to the R. § 35-8-5.7.a reconstruction of the sheriff requision of this article to the R. § 35-8-5.7.a reconstruction of the sheriff requision of the sheriff requision of this article to the R. § 35-8-5.7.a reconstruction of the sheriff requision of the sheriff requisio	quired by section seven of this article, and to which the well is or is proposed to be locing developed by the proposed well work, it and sediment control plan submitted pursue event the tract of land on which the well personance of record of the surface tract or tract is to be used for the placement, consteasoribed in section nine of this article; (5) and or water supply source located within one input on by humans or domestic animals; and with its totake place. (c)(1) If more than threation hold interests in the lands, the application of the contrary, notice to a lien holder is not	or signature confirmation, copies of the application, the the well plat to each of the following persons: (1) The orated; (2) The owners of record of the surface tract or traff the surface tract is to be used for roads or other land d ant to subsection (c), section seven of this article; (3) The proposed to be drilled is located [sic] is known to be und acts overlying the oil and gas leasehold being developed ruction, enlargement, alteration, repair, removal or abandary surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well paid (6) The operator of any natural gas storage field withing the tenants in common or other co-owners of interests depend and the person design, article one, chapter eleven-a of this code. (2) Not the notice to a landowner, unless the lien holder is the landowide the Well Site Safety Plan ("WSSP") to the surface as provided in section 15 of this rule.	where of record of acts overlying the isturbance as the coal owner, derlain by one or downer to any the applicant to downich is used to make the escribed in the escribed in the escribed in the twithstanding any downer. W. Va.		
	Application Notice	☑ WSSP Notice ☑ E&S Plan Notice	e 🛮 Well Plat Notice is hereby provided to:			
71.9	URFACE OWNER	(s)	COAL OWNER OR LESSEE			
Nar		de (pad, road, water)	Name: NA			
	dress: 645 Mare Run Re	dad	Address:			
	Weston, WV 264	52		RECEIVED		
Name: Bertha Benedum (pad, road, water)			□ COAL OPERATOR	Office of Oil and Gas		
Address: 604 Mare Run Road			Name: NA	DEC 1 6 2021		
-	Weston, WV 264	(s) (Road and/or Other Disturbance)	Address:	DEC 10 2021		
			□ SURFACE OWNER OF WATER WELL	WV Department of		
			AND/OR WATER PURVEYOR(s)	WV Department of Environmental Protection		
Aut			Name: Karina Rowe			
Nar			Address: 1148 Mare Run Road			
Name:Address:			Weston, WV 26452			
			OPERATOR OF ANY NATURAL GAS STOR			
		(s) (Impoundments or Pits)	Name: Dominion Energy Transmission - Attn: Ronald Waldren			
Na	me:		Address: 925 White Oaks Blvd			
Name:Address:			Bridgeport, WV 26330			
			*Please attach additional forms if necessary			

WW-6A (8-13)

RECEIVED

API NO. 47-

OPERATOR WELL NO. GUITMANN 1244 HAHI - STAH Well Pad Name: Bumsice 1214

DEC 16 2021

Notice is hereby given:

WV Department of Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby greater the interestioned 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/oiland-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are madequate or otherwise require alteration to address the items

02/04/2022

WW-6A (8-13) API NO. 47OPERATOR WELL NO. Burnside 1214 N1H-S6H
Well Pad Name: Burnside 1214

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 and the location or construction of the applicant's proposed well work to the Secretary at:

Office of Oil and Gas

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

DEC 16 2021

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.

API NO. 47-OPERATOR WELL NO, Burnside 1214 N1H - S6H Well Pad Name: Burnside 1214

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

WW-6A (8-13) API NO. 47-____OPERATOR WELL NO. Burnside 1214 NIH SSH
Well Pad Name: Burnside 1214

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhlte@hgenergyllc.com

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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

Diane white



Subscribed and sworn before me this 1st day of July ,2021

Canada Bacada Notary Public

My Commission Expires 7/31/2022

RECEIVED Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection



July 1, 2021

John Kent Burnside 645 Mare Run Road Weston, WV 26452

RE:

Burnside 1214 N-1H - S-6H Well Work Permit Applications - Notification

RECEIVED Office of Oil and Gas

Freemans Creek District, Lewis County

West Virginia

DEC 16 2021

WV Department of Environmental Protection

Dear Sir:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours, Diane White

Diane C. White



July 1, 2021

Bertha Benedum 604 Mare Run Road Weston, WV 26452

RE:

Burnside 1214 N-1H to S-6H Well Work Permit Application - Notification

Freemans Creek District, Lewis County

West Virginia

Dear Ms. Rowe:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours, Diane White

Diane C. White

RECEIVED Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection



July 1, 2021

Dominion Energy Transmission Attn: Ron Walden 925 White Oaks Blvd Bridgeport, WV 26330

RE:

Burnside 1214 N-1H to S-6H Well Work Permit Application - Notification

Freemans Creek District, Lewis County

West Virginia

Dear Sir:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

RECEIVED Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection



July 1, 2021

Karina Rowe 1148 Mare Run Road Weston, WV 26452

RE:

Burnside 1214 N-1H to S-6H Well Work Permit Application - Notification

Freemans Creek District, Lewis County

West Virginia

Dear Ms. Rowe:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours, Diane White

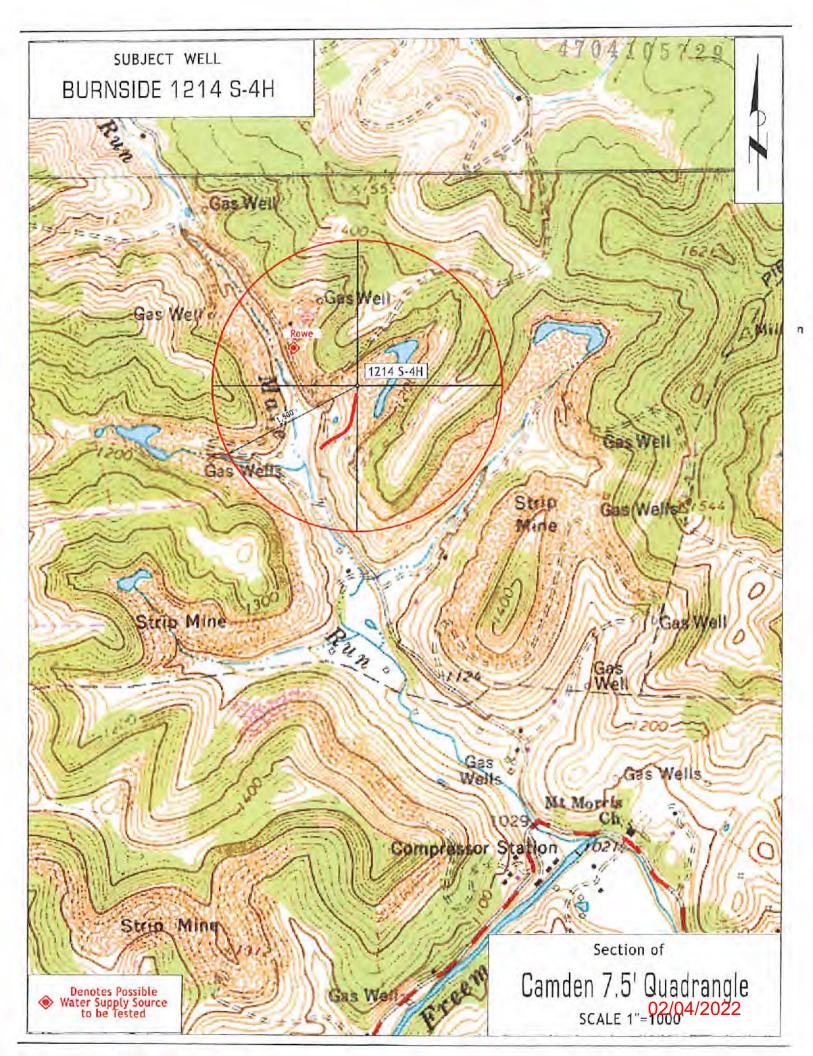
Diane C. White

Enclosures

RECEIVED Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection



Diane White

From: Diane White

Sent: Friday, October 16, 2020 2:56 PM

To: Vicki Hoops

Subject: Pre-Drill Water Sampling/Testing for the Burnside 1214 Well Pad

Vicki,

Can you please have the following water sources sampled and tested for pre-drill parameters? The pad is in Lewis county, Freemans Creek district, Camden quadrangle and Middle West Fork Creek watershed.

John and Phillip Burnside, 645 Mare Run Road, Weston, WV 26452 304-203-4091 Karina Rowe, 1148 Mare Run Road, Weston, WV 26542 304-904-6727

Please have the paperwork identified to the Burnside 1214 well pad. Thank You,
Diane

Diane C. White



HG Energy, LLC

5260 Dupont Road
Parkersburg, WV 26101
304-420-1119 (O)
304-482-0108 (C)
dwhite@hgenergyllc.com
https://hgenergyllc.com

urm vironmental

VICTORIA L. HOOPS, PRESIDENT

COMPANY:

H.G. ENERGY, LLC.

DATE/TIME SAMPLED:

07-02-21 1228

SAMPLE ID:

BURNSIDE

DATE/TIME RECEIVED:

07-02-21 1247

1214 PAD

SAMPLED BY: K. WILLIAMS

LABORATORY ID:

HG 210702-1

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	8.67	units				07-02-21 1228	KW
FIELD TEMP	20.7	°C				07-02-21 1228	KW
FIELD COND	402	μmhos				07-02-21 1228	KW
рН О	7.5	units	SM 22 nd 4500 H B	.1	210.	07-02-21 1313	KS
Fe	1.16	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	07-06-21 1738	DB
TDS	248	mg/L	USGS I-1750-85	4	4	07-06-21 2129	EK
Cl	2.35	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	07-07-21 2223	DC
MBAS	.04	mg/L	SM22 nd 5540C	.02	.04	07-02-21 2306	SW

*Client Provided

В Analyte found in reagent blank. Indicates possible reagent or background contamination.

E Estimated Reported value exceeded calibration range.

J Reported value is an estimate because concentration is less than reporting limit,

PND Precision not determined.

Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and/or re-analysis is necessary in and Gas Recovery not determined. R

RND

U Compound was analyzed for, but not detected.

0 Out of holding. Time does not meet 40 CFR 136/141 compliance.

T This result is not supported by our certification ID.

A Does not meet 40 CFR 136/141 compliance.

C Does not meet 47 CSR 32 compliance.

Narrative:

WV Department of Environmental Protection

DEC 16 2021

^{**}See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted. Data Qualifiers

Sturm Environmental Services

Office of Oil and Gas.

DEC 16 2021 a

Department of D. John J. John J

STURM ENVIRONMENTAL BRUSHY FORK ROAD BRIDGEPORT, WV 26330

PHONE: 304-623-6549 FAX: 304-623-6552

STURM ENVIRONMENTAL SERVICES

610 D STREET

SO. CHARLESTON, WV 25303

PHONE: 304-744-9864 FAX: 304-744-7866

		4/	7 12		- 0							e Émo	6.0											BELOW				
REPORT TO: Client Name:		TIC	ナニ	nev	59				_	BILL	10:															-		
REPORT TO: Client Name: Address: City/State/Zip:	_								_			City/S														-		
				_	-				-			ntact										_				-		
Contact Person:					Eav No				_	Т				_							lo.					-		
Email Address:	-	_			Tax No.				_			mail /														-		
Sampler Name: (Print)		K.	W:1	ITai	u.S							hase														-		
Sampler Signature:		15.	V-11							TU	RN A	ROUN	D TIN	ME:	5	Standa	ard									1 DAY	2 DAY	3 DAY
Project Name:		1:	214	- PA	-17										F	RUSH	(pre-si	chedul	ed; surci	harges r	nay apply	Plea:	se Chec	k One				
Special Reporting:			Results		0 2 1	Fax Resu	lts										ı	Date N	eeded									
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	START DATE	START TIME	DATE	IME			œ.	Na25203 72/FC	. Plactic	, Glass		ndwater ewater	Drinking Water Sludge	r (Specify):	Dei 11							Bottles	Н	Flow (gpm, cfs, mgd) circle one	Field Conductivity	oa	d Cislorine(mg/L or ug/L) s one	Field Temp (F" or C") circle
	LAR	LAR	END D	END TIME	DATE	TIME	OTHER	52.5	Agor T	1,50 1,50	INO	Nast	Stude	Soil	Pre							0	Field pH	ow (e G	Field DO	ield C	- B
Sample ID / Description	S	SO	ū	ũ	7-2-21		1	Z	-		//	0 2	- 0	7	11			+		H	++	3	8.6	E 75	402	U.	正言	2017
Burnside					1-2 20	1228		++	+	+	-		+		11			+				0	8.4		402			1,000
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Resident Street	7-2.		12	me 47	Received	· Kre						3/	Date 2/2	1	Time	Ter	mp up											
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WW-6A3 (1/12)

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

		Requirement:	Notice shall be prov	ided at	least SEVEN (7) da	iys but no more tha	in FORTY-FIVE (45) days prior to
Date		e: 10/21/2020	Date of Plan	ned E	ntry: 10/28/2020			
Deli	very meth	od pursuant i	to West Virginia C	ode § 2	2-6A-10a			
П	PERSON	AI 🗆	REGISTERED		METHOD OF DEI	IVERY THAT R	FOURES A	
	SERVICE		MAIL		RECEIPT OR SIG			
on to but i bene own and Secr enab	o the surfa no more the eath such the er of mine Sediment retary, while ole the surface is here SURFAC	ce tract to condian forty-five direct that has filerals underlying Control Manuach statement slace owner to oby provided to E OWNER(s)	duct any plat survey, ays prior to such ended a declaration pure such tract in the coal and the statutes and all include contact obtain copies from the	s requir try to: (suant to unty ta: d rules informa	ed pursuant to this a 1) The surface owner 2 section thirty-six, a 2 records. The notice 3 related to oil and gastion, including the a tary.	rticle. Such notice er of such tract; (2) article six, chapter the shall include a st is exploration and puddress for a web p	r shall provide notice shall be provided at let to any owner or lesse twenty-two of this contatement that copies of oroduction may be obtained on the Secretary's	east seven days e of coal seams de; and (3) any f the state Erosion lained from the
Add	· Coo.	Mare Run Road on, WV 25452			Address:			
Nan		na Benedum		-				
		Mare Run Road	/		■ MIN	ERAL OWNER(s)	/	
		on, WV 26542		_	Name:	Bertha & Eric Benedum	Cynthia Sumpter	
Nan	ne:			3		604 Mare Run Road	3297 Sycamore Lick Road	RECEIVED Office of Oil and Gas
Add	ress:			_		Weston, WV 26542	Jane Lew, WV 26378	
_				-	*please attac	ch additional forms if n	ecessary	DEC 16 2021
Purs	uant to W	reby given: est Virginia Co on the tract of Is	ode § 22-6A-10(a), r and as follows:	notice is	s hereby given that t	he undersigned we	II operator is planning	WV Department of Environmental Brotection
State		West Virginia			Approx. Lati	tude & Longitude:	39.119010 & 80.522974	
Cou	nty:	Lewis			Public Road	Access:	Mare Run Road / CR10/9	
Dist	rict:	Freeman's Creek			Watershed:		Middle West Fork Creek	
Qua	drangle:	Camden WV 7.5			Generally us	ed farm name:	Bumside	
may Cha	be obtain rleston, W	ed from the Se V 25304 (304	cretary, at the WV I -926-0450). Copies	Departm of such	ent of Environment	al Protection head tional information	oil and gas exploration quarters, located at 60 related to horizontal d	1 57th Street, SE,
Nine	ina i- b	alar oicea Le						
	l Operator	eby given by			Address:	anen D		
	phone:		parachia, LLC		Address:	5260 Dupont Road	hed.	
Ema		304-420-1119	All one		Equipolia.	Parkersburg, WV 2610	n e	
EIIIE	uii.	dwhite@hgenerg	Jylic.com		Facsimile:	304-863-3172		

Oil and Gas Privacy Notice:

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



May 7, 2021

RE:

Burnside 1214 N-1H thru S-6II

Freeman's Creek District, Lewis County

West Virginia

Dear Royalty Owner

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

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

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

Very truly yours,

Diane White

Diane C. White

RECEIVED Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection

WW-6A4 (1/12)

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 Date of Notic	Requirement: Notice shall be ce: 06/28/2021	Date Permit Application Filed		регип аррисацоп.	
Delivery met	hod pursuant to West Virgini	a Code § 22-6A-16(b)			
☐ HAND	■ CERTIFIED M	AIL			
DELIVI		EIPT REQUESTED			
receipt requent drilling a hor of this subsection mand if available	sted or hand delivery, give the sizontal well: <i>Provided</i> , That notion as of the date the notice way be waived in writing by the size.	east ten days prior to filing a perrurface owner notice of its intent of the given pursuant to subsection as provided to the surface owner: urface owner. The notice, if requalic mail address of the operator at ACE OWNER(s):	o enter upon t (a), section to Provided, how ired, shall inc	he surface owner's land en of this article satisfies wever, That the notice re lude the name, address, t	for the purpose of s the requirements quirements of this telephone number,
	ohn Kent Burnside	Name:	Bertha Benedu	n	
	45 Mare Run Road	Address:	604 Mare Run R	gest	
v	Veston, WV 26452		Weston, WV 264	52	
State: County: District:	West Virginia Lewis Freemans Creek	UTM NAD 83 Public Road A	Easting: Northing: ccess:	541229.9 4330086.3 Mare Run Road/CR 10/9	
Quadrangle:	Camden WV 7.5'	Generally used		Burnside	
Watershed:	Middle West Fork Creek				
Pursuant to facsimile nur related to ho	mber and electronic mail addre	6(b), this notice shall include to ss of the operator and the operator from the Secretary, at the WV V 25304 (304-926-0450) or by v	ntor's authorized Department of	ed representative. Additor of Environmental Protection	tional information tion headquarters,
	ereby given by:	4.41		. Secondario	
Well Operate	HG Energy II Appalachia, LLC		Representative	The second second second	
	ht: HG Energy II Appalachia, LLC 5260 Dupont Road	Authorized I Address:	Representative	5260 Dupont Road	RECEIVEL
Well Operato Address:	HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101	Address:	Representative	5260 Dupont Road Parkersburg, WV 26101	RECEIVEL Office of Oil and Gas
Well Operate Address: Telephone:	HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101 304-420-1119	Address:	Representative	5260 Dupont Road Parkersburg, WV 26101 304-420-1119	Office of Oil and Gas
Well Operato Address:	HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101	Address:	Representative	5260 Dupont Road Parkersburg, WV 26101	Office of Oil and Gas

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.

WW-6A5 (1/12)

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

Notice Time I Date of Notic	Requirement: notice shall be provi e; 07/02/2021 Date Peru	ded no later than the filing mit Application Filed: 07.		application.
Delivery met	hod pursuant to West Virginia Co	ode § 22-6A-16(c)		
CERTIF	FIED MAIL	☐ HAND		
	N RECEIPT REQUESTED	DELIVERY		
return receipt the planned o required to be drilling of a h damages to th	requested or hand delivery, give the peration. The notice required by provided by subsection (b), section porizontal well; and (3) A proposed e surface affected by oil and gas op	e surface owner whose lan this subsection shall inclu- ten of this article to a sur d surface use and comper erations to the extent the c	d will be used for ide: (1) A copy- face owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the address Name: John	eby provided to the SURFACE O's listed in the records of the sheriff a	at the time of notice): Name:		
Address: 645 N	Mare Run Road	Addre	SS: 604 Mare Run Ros	
West	on, WV 26452		Weston, WV 26453	2
operation on State: County: District:	the surface owner's land for the pur West Virginia Lewis	pose of drilling a horizont UTM NAD Public Road	al well on the tra 83 Easting: Northing: Access:	541229.9 4330086.3 Mare Run Road / CR 10/9
Quadrangle:	Camden WV 7.5	Generally u	sed farm name:	Burnside
Pursuant to W to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) all; and (3) A proposed surface use a sed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	to a surface owner whose and compensation agreemed extent the damages are deep obtained from the Secre-	se land will be ent containing an compensable und etary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional / Department of Environmental Protection or by visiting

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.

HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Burnside 1214 Well Pad (N-1H to N-3H, S-4H to S-6H)

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

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Office of Oil and Gas
DEC 16 2021

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

November 6, 2020

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

> Jimmy Wriston, P. E. Deputy Secretary/ Deputy Commissioner

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

Subject: DOH Permit for the Burnside 1214 Pad, Lewis County Burnside 1214 S-4H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2020-0357 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 10/9 SLS MP 0.931.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Dary K. Clayton

Regional Maintenance Engineer

Central Office O&G Coordinator

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Office of Oil and Gas

DEC 16 2021

WV Department of Environmental Protection

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

File

CONSTRUCTION IMPROVEMENT PLANS WITH **EROSION AND SEDIMENT CONTROLS** HG 1214 WELL PAD

1 TITLE SHEET 2A-2C SITE CHURCHMENT PLANS 3 WELL PAD SECTIONS 4A ACCESS ROAD SECTIONS 5A-5F CONSTRUCTION HOTES & DETAILS 6B-6G RESTORMTON PLAN 7 PROPERTY MP	SHT. NO.	SHEET TITLE
WILL PAD SECTIONS ACCESS ROAD SECTIONS SA-SF CONSTRUCTION HOTES & DETAILS BB-6C RESTORATION PLAN	1	TITLE SHEET
4A ACCESS ROAD SECTIONS 5A-5F CONSTRUCTION NOTES & DETAILS 6B-6C RESTORATION PLAN	2A-2C	SITE CENELOPMENT PLANS
5A-SF CONSTRUCTION NOTES & DETAILS 5B-6C RESTORATION PLAN	3	WELL PAD SECTIONS
68-6C RESTORATION PLAN	4A	ACCESS ROAD SECTIONS
	SA-SF	CONSTRUCTION NOTES & DETAILS
7 PROPERTY WAP	6B-6C	RESTORATION PLAN
	7	PROPERTY MAP
		11

CONSTRUCTION SEQUENCE

1. Prior to commencement of any earth disturbance activity including diearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, openian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be persed, staged, operated or located for any purpose.

2 Site access - This is the first land-disturbance activity to

take place at the site and should provide BMPs to minimize accelerated grosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use

at the little including parking, stockulles.

3. Sediment Barriers - lostall perimeter BMPs after the construction site is accessed keeping associated dearing and grubbing limited to only that amount required for installing perimeter BMPs.

4. Land Clearing and Grading - Implement dearing and grading only after all downslope E&S BMPs have been constructed and stabilized.

5. Surface Stabilization - Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached finel grade, has been delayed or otherwise temporarily suspended.

 Construction of Buildings, Utilities, and Paving - During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may on remained.

7. Upon completion of pad grading, compact the pad to

grade and begin placement of pad soil coment.

8. Final Stabilization, Toppoling, Trees and Stabilization. construction is completed, Install stabilization BMPs Including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this lost construction phase, Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.

FREEMANS CREEK DISTRICT LEWIS COUNTY WEST VIRGINIA



PREPARED FOR HG ENERGY II APPALACHIA, LLC

5260 DUPONT ROAD PARKERSBURG, WEST VIRGINIA 26101 (304) 420-1100

PREPARED SY PENN ENVIRONMENTAL & REMEDIATION, INC.

> 111 RYAN COURT PITTSBURGH, PA 15205 (412) 722-1222

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MOLL !	LAT	LDVC.
N-1A	N 38.1190821	W 512225453
N-2H	N J3.1190580	W 50.5226852
N-3	H 39.1193339	W 50.5229311
5-48	N 39,1190095	W 50.5229740
5-54	N JULTINUSSA	W 80,5230159
5-424	N 33.1183815	W 80.5230507

WELL FLEVATIONS 1158-57 01483-126

	LATTUDE	LONGITUDE
1214 WELL PAD ACCESS POINT	N 39,1066184	W 80.5165087
214 WELL PAD ACCESS ROAD ENTRUNCE	N 39.1173135	W 50.5244678

RECORD DWNER	RECORD LOT ∦	RECORD AREA OF LCT	MITHIN LOD
JOHN KENT BURNSIDE	21-03-006C-0003-000Z	111.52	5.22
WARE RUN ROAD DAR 10/9	n/A	N/A	0.10
TOTAL LIMIT OF DE	STURBANCE		5.32 AC

ment of Protection



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TITLE SKEET

HG 1214 PAD FREEMANS CREEK DISTRICT LEWIS COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

PA005129-001 SHEET 1

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WEST VIRGINIA

YOU DIG!

