

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 N-2H 47-041-05726-00-00

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

Farm Name: JOHN K BURNSIDE ET AL

Operator's Well Number: BURNSIDE 1214 N-2H

U.S. WELL NUMBER: 47-041-05726-00-00

Horizontal 6A New Drill

Date Issued: 1/20/2022

API Number:

PERMIT CONDITIONS

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

CONDITIONS

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

WW-6B (04/15)

API NO. 47		
OPERATOR W	ELL NO.	Burnside 1214 N-2H
Well Pad Nar	ne: Bumsi	de 1214

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

1) Well Operator: HG I	Energy II App	alachia, 📙	494519932	Lewis	Freeman Car	mden 7.5'
A CONTRACTOR			Operator ID	County	District Qua	drangle
2) Operator's Well Num	ber: Burnside	1214 N-2H	Well P	ad Name: Bu	rnside 1214	
3) Farm Name/Surface ()wner: John k	K Burnside,	et al Public R	oad Access: _	Mare Run Rd at C	R 10/9
4) Elevation, current gro	und: 1160'	Elev	vation, propose	d post-constru	ction: 1159.20'	
5) Well Type (a) Gas Other	X	_ Oil	Un	derground Sto	rage	
(b)If Gas	s Shallow	x	Deep		-	00.1
	Horizontal	Х				SOW
6) Existing Pad: Yes or ?	No No			_		1213/202
 Proposed Target Form Marcellus at 6685'/676 					Pressure(s):	
8) Proposed Total Vertic	al Depth: 66	93'				
9) Formation at Total Ve	ertical Depth:	Marcellus				
10) Proposed Total Meas	sured Depth:	16,981				
11) Proposed Horizontal	Leg Length:	9,676				
12) Approximate Fresh	Water Strata De	epths:	803', 950'			
13) Method to Determine 14) Approximate Saltwa		-	earest offset w	vell data, (47-0	041-00283, 0210,) /
15) Approximate Coal S	eam Depths: 5	510', 910', 915	5' (Surface casir	ng is being exter	ided to cover the coa	al in the DTI Field)
16) Approximate Depth	to Possible Voi	id (coal min	e, karst, other):	None		
17) Does Proposed well directly overlying or adj			s Yes	1	No X	
(a) If Yes, provide Min	e Info: Name	::				
A. A. S.	Depth	1:				
	Seam	:				
	Owne	er:				A Transfer
					Offic	RECEIVED e of Oil and Gas

DEC 1 4 2021

WV Department of Erraigentental Protection

WW-6B (04/15)

API NO. 47		
OPERATOR WELL	NO.	Bumside 1214 N-2H
Well Pad Name:	Burnsio	te 1214

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1050'	1050' 🗸	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2050'	2050' 🗸	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	2850'	2850' 🗸	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	16981'	16981' √	20% Excess Tail, CTS
Tubing							
Liners							

50W 121312021

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement <u>Yield</u> (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	Load 40% excass, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Load 40% excess, Tall 0% Excess Land
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	30% excess year = 1,13, tail yield 1,54 c
Tubing							
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

WW-6B (10/14) 4704105726

OPERATOR WELL NO. Burnside 1214 N-2H
Well Pad Name: Burnside 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 9,676' lateral length, 16,981' 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 certralizers will be used with conductor casting.
Freshmater/Coel - contralizers will be used with conductor casting.
Freshmater/Coel - contralized every 3 joints to surface.
Intermedate 1 - Dows Spring on every joint, will also be nunning ACP for isolating storage zone
Intermedate 2 - Bow Spring on first 2 joints then every third joint to 100 from surface.
Production - Vertical - Run 1 spring contralizer every 3 joints from the 1st 5.5' long joint to the top of the curve to surface.

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

Conductor -N/A, Casting to be diffed in wf Dual Richary Rig.
Fresh WaterClose -1.66 ppg, Class A Neat, 548th, 40% Excess Yield = 1.18 / CTS
Intermediate 1 - *** Starting String *** CTS
*** Control of the Control of t

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD:

Fresh Water prior to pumping coment.
Intermediate 1 - Once cashing is at setting depth, Circulate a minimum of one hole volume with Fresh Water prior to pumping coment.
Intermediate 1 - Once cashing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping coment.
Intermediate 2 - Once cashing is at setting depth, Circulate and condition must at TD. Circulate a minimum of one hole volume prior to pumping coment.
Production - Once on potentiful Ward esting, circulate at minimum of one hole volume prior to pumping coment.
Production - Once on potentiful Ward esting, circulate at minimum of one hole volume prior to pumping coment.

*Note: Attach additional sheets as needed.

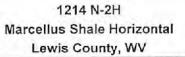
HG Energy II Appalachia, LLC Burnside 1214 Well Pad (N-1H, N-2H, N-3H, S-4H, S-5H, S-6H) Cement Additives

aterial Name	Material Type		CAS#		Taxa
		Premium NE-1 is a	Ingredient name	%	CAS number
		portland cement with	Portland cement	90 - 100	65997-15-1 1305-78-8
		carly compressive	Calcium oxide Magnesium oxide	1-5	1309-48-4
emlum NE-1	Portland Cement	strength properties.	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7
emium we-1	Portiand Cement				
		Commonly called gel, it is		1	less
		a clay material used as a	Ingredient name	%	CAS number
		cement extender and to	bentonite Crystalline silica: Quartz (SiO2)	90 - 100 5 - 10	1302-78-9 14808-60-7
		control excessive free	Crystalling slitter, Goal & (Glob)	0 10	11.000.00
	45.00	water.			
ntonite	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			
		of strength development			
ium Chloride	Accelerator				
		Graded (3/8 to 3/4 inch)	Instructional courses	%	CAS number
		cellophane flakes used as	Ingredient name No hazardous ingredient	70	SAN HARIDA
		a lost circulation material.	No nazaroous ingreoient		
o Flake	Lost Circulation	Santa Contraction Name of			
		Transaction St.			
		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
anulated Sugar	Retarder	returns at surface.	CONTRACTOR	1000	
		A proprietary product			
		that provides expansive			
		properties and improves	In the second second	les .	CAS number
		bonding at low to moderate	Ingredient name	% 90 - 100	37247-91-9
		temperatures.	Calcium magnesium oxide	30 - 100	3/24/-81-8
1		semperature.			
3		Multi-purpose polymer			
		additive used to control	Ingredient name	% =	CAS number
		free fluid, fluid loss,	No hazardous ingredient	100	
	Editor No.	rheology, and gas	The final and a right control		
A-170	Gas Migration	migration.			
		* amatulan sessera			
		A synthetic pozzolan, (primarily Silicon Dioxide).			
		When blended with			
		cement, Pozzolan can be	The state of the s	lav.	010
		used to create	Ingredient name	%	CAS number
		lightweight cement	Crystalline silica: Quartz (SiO2) Calcium oxide	5 - 10 1 - 5	14808-60-7 1305-78-8
		slurries used as either a	GENERAL CARDE	1.5	1005-70-0
		filler slurry or a sulfate			
		resistant completion			
45h, 4-63	Danie	cement.			
(Fly Ash)	Base				
		A low temperature			
		retarder used in a wide	Ingredient name	%	CAS number
		range of slurry	Organic acid salt	40 - 50	Trade secret.
		formulations to extend	organic add sait	-10 - 50	TIAGE SECIEL
		the slurry thickening time.			
	Retarder				
				%	CAS number
1				1.07	ICAC mumbers
1			Ingredient name		
L			2-Butoxyethanol	20 - 30	111-76-2
		Used to water test engine	2-Butoxyethanol Proprietary surfactant D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	20 - 30 10 - 20 5 - 10	111-76-2 Trade secret. 110615-47-9
1		Used to water wet casing and formation to facilitate	2-Butoxyethanol Proprietary surfactant	20 - 30 10 - 20	111-76-2 Trade secret.

*** Storage String *** CTS ***

15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominton Requirements)
B348 - 0.5% BWOB Fluid Loss / D013 - D.75% BWOB Retarder / D47 - D.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB
Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess

15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominton Requirements)
B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess

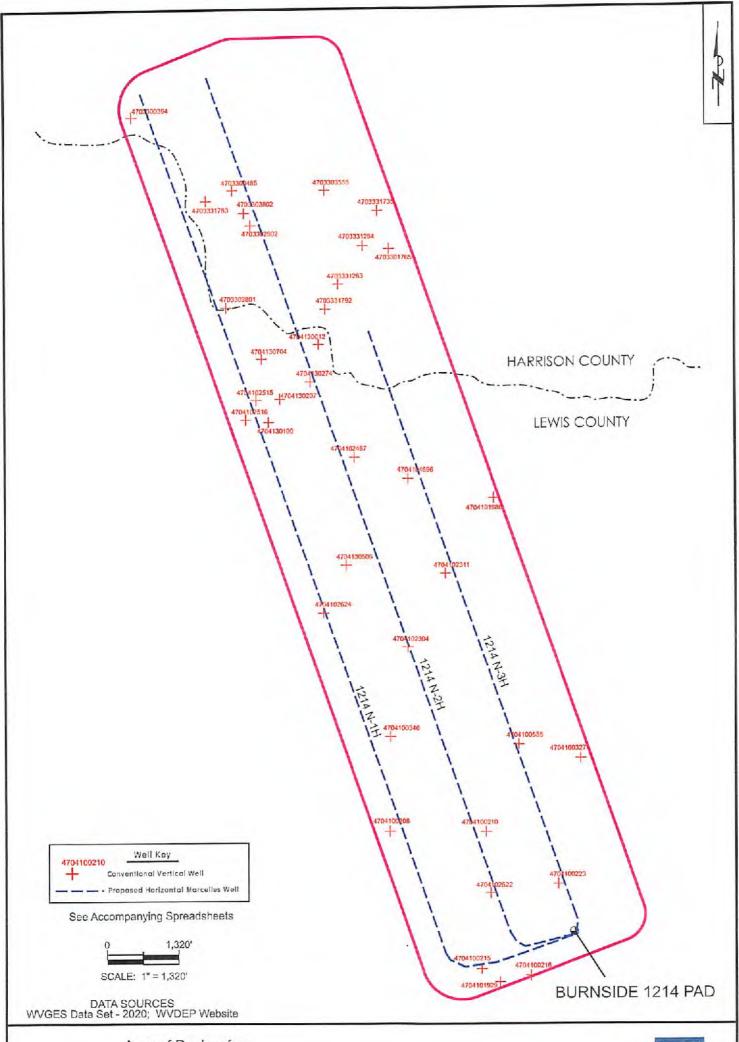




						1214 N	I-2H SH	4	14	206300.26N 17756	97.37E
Ground Ele	evation	1	1159	'		1214 1	N-2H LF		14	206360.22N 17744	83.16E
Azm		340.538°			1214 N-2H BHL				14	215479.94N 17712	60.59E
WELLBORE DI	IAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
×	×	30"	30" 157.5# LS	Conductor	ū	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" w thickness
			20"	Fresh Water	0	200, 550, 800	1	15.6 ppg Class A Neat 94#/sk	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w
K		26"	94# J-55	Kittaning Coal	910	915	AIR	40% Excess	joints to surface	of one hole volume with Fresh Water prior to	thickness Burst=2110 psi
x	×			Fresh Water Protection	0	1050		Yield=1.18 / CTS		pumping cement.	Bulst-2110 pst
				Little Lime	1484	1482	-	See above (LEFT) for	Bow Spring on every	Once casing is at setting	Intermediate casing = 0,480" wall thickness Burst=3450 psi
		15.5	13-3/8" 58#	Big Lime	1509	1569	AIR / KCL	Storage String Cement	joint	depth, Circulate and condition at TD. Circulate a	
X	l x	17.5"	J-55 BTC	Injun / Gantz (Storage)	1571 / 1854	1679 / 1914	Salt Polymer	Blend to Meet DTI Requirements for Gas	*will also be running ACP for isolating	minimum of one hole	
				Intermediate 1	0	2050		Storage Field Isolation	storage zone*	volume prior to pumping cement.	
×	x			Fifty / Thirty Foot	1970 / 2069	1990 / 2084			1177	Once casing is at setting	
		12.25"		Gordon Stray / Gordon	2099 / 2134	2136 / 2214	AIR / KCL - 94#/sk Salt 1% Calcium BWOC -	15.6 ppg Class A 94#/sk	Bow Spring on first 2	depth, Circulate and	Intermediate casing = 0.3
			9-5/8" 40# J-55 BTC	5th Sand	2354	2399		1% Calcium BWOC -	joints then every third joint to 100' form	condition mud at TD. Circulate a minimum of one	wall thickness
x	×		2.44 17.0	Bayard / Warren	2434 / 2729	2464 / 2764		surface	hole volume prior to	Burst=3950 psi	
				Intermediate 2 0 2850		pumping cement.					
x	X	8.75" Vertical		Speechley	3065	3080			Run 1 spiral centralizer		
				Balltown	Balltown 3178 3238 AIR / 9.0ppg	every 5 joints from the					
			21	Bradford	3841		SOBM Class A 14.8 ppg		top of the curve to surface.		
				Benson	4362	4374		sunace.	Once on hollow/ID with		
			1	Rhinestreet 6009 6255 Yield 1.34		Once on bottom/TD with casing, circulate at max					
			5-1/2" 23# P-110 HP	Cashaqua	6255	6355		D255 – 0.4% BWOB Fluid Loss		allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole of is clean. Circulate a	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions
x	X			Middlesex	6355	6387	11,5ppg-	D198 – 0.55% BWOB Retarder D047 – 0.02 gal / sack			
		8.5" Curve		West River	6387	5458	12.5ppg		401700-06		
			CDC HTQ	Burkett	6458	6468	SOBM	Anti Foam	Run 1 spiral centralizer every 3 joints from the		
				Tully Limestone	6468	6576		D208 – 0.05% BWOB Viscosifier	1st 5.5" long joint to the	volume prior to pumping	a contraction
				Hamilton	6576	6685		10% Excess	top of the curve.	cement.	
				Marcellus	5685	B767	44 5000				
		8.5" Lateral		TMD / TVD (Production)	16981	6693	11.5ppg- 12.5ppg SOBM				
×	X			Onondaga	6767						
		X	Χ	X	X		X	X	X	X	X
		3' TVD / 7305' MD			3,5" Hole - Cement 5-1/2" 23# P-110				+/-967	'6' ft Lateral	TD @ +/-6693' TVD +/-16981' MD

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)

	<u> </u>	T
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	<u> </u>
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
001150151051140	107.01.1	
SCALE CLEAR SI 112	107-21-1	
DDODDEAK 4	Mixture	F7 F0 1
PROBREAK 4	iviixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
Sundiffic Acid	. 3323-14-0	
PRO - Flow - 102-N	Mixture	67-63-0
1007 202 11	T	68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	



Area of Review for:

BURNSIDE 1214 NORTH UNIT

Proposed 1214 N-1H Proposed 1214 N-2H Proposed 1214 N-3H

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

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



10/23/2020

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

BURNSIDE 1214 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H & N-3H

СТ	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300394	Harrison	William Booth	Diversified Resources, Inc.	Gordon	Gas	2744	ACTIVE	39,160516	-80,551546
2	4703300485	Harrison	Hitt Heirs	Pioneer Petroleum, Inc.	UNKNOWN	not available	130	PLUGGED	39,156742	-80.545025
3	4703301765	Harrison	Hall & White	Blackrock Enterprises, LLC	Hampshire Grp	Oil and Gas	2853	ABANDONED	39.153705	-80.534832
4	4703302801	Harrison	J W Wagner	Dominion Energy Transmission, Inc	Brallier	Gas	5211	ACTIVE	39,150814	-80.545499
5	4703302802	Harrison	Central Pitts Coal Corp	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	5510	ACTIVE	39,154947	-80.543864
6	4703303555	Harrison	Robert G Burnside	Alliance Petroleum Co. Inc.	Benson	Gas	5358	ACTIVE	39.156694	-80.539005
7	4703303802	Harrison	C B McIntyre	Consolidation Coal Co.	Fourth	Dry	3046	PLUGGED	39.155581	-80.544279
8	4703331283	Harrison	W L Hall	Bradford Supply Co.	Fifth	Dil	2576	PLUGGED	39.151964	-80.538189
9	4703331284	Harrison	J A White	Bradford Supply Co.	Hampshire Grp.	Gas	2645	PLUGGED	39.153878	-80.536550
10	4703331735	Harrison	Gayl Gum	South Penn Oil Co.	Hampshire Grp	Oil	2816	PLUGGED	39,155643	-80,535573
11	4703331783	Harrison	Martha A Hitt	Cassady, William	Hampshire Grp	Oil	2721	PLUGGED	39.156205	-80.546766
12	4703331792	Harrison	W L Hall	Cassady, William	Hampshire Grp	Gas	2539	PLUGGED	39.150703	-80.539039
13	4704100208	Lewis	N A Lovett	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2664	ACTIVE	39.124252	80.535088
14	4704100210	Lewis	N A Lovett	Dominion Energy Transmission, Inc.	Gantz	Storage	2010	ACTIVE	39.124205	-80.528801
15	4704100215	Lewis	Payne Hall	Dominion Energy Transmission, Inc.	Fifth	Storage	2370	ACTIVE	39,117271	-80,529147
16	4704100216	Lewis	Jonathan W & Helen S Foote	Dominion Energy Transmission, Inc.	Gantz	Storage	1860	ACTIVE	39.116920	-80.525927
1.7	4704100223	Lewis	Burnette Bailey	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	3115	ACTIVE	39.121541	-80.524108
18	4704100327	Lewis	Owen Fisher	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2603	ACTIVE	39,127890	-80,522588
19	4704100346	Lewis	Hudson Bailey	Hope Natural Gas Company	Up Devonian	Storage	2383	PLUGGED	39.129052	-80.535006
20	4704100585	Lewis	Caroline Oldaker	Dominion Energy Transmission, Inc.	Up Devonian	Storage	2547	PLUGGED	39.128617	-80.526627
21	4704101929	Lewis	Jonathan W/Helen S Foote	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4450	ACTIVE	39.116585	-80.527939
22	4704101986	Lewis	L B Conley	Dominion Energy Transmission, Inc.	Benson	Gas	4726	ACTIVE	39.141075	-80.528117
23	4704102304	Lewis	H Bailey	Dominion Energy Transmission, Inc.	UNKNOWN	not available		ACTIVE	39,133583	-80,533810
24	4704102311	Lewis	W Bailey	Dominion Energy Transmission, Inc.	UNKNOWN	Gas		ACTIVE	39,137294	-80.531307
25	4704102487	Lewis	A R Loudin	Dominion Energy Transmission, Inc.	Benson	Gas	4782	ACTIVE	39 143209	-80.537199
26	4704102515	Lewis	Alice White	Clarence Mutchelknaus	UNKNOWN	not available		ACTIVE	39.146124	-80.543593
27	4704102516	Lewis	Alice White	Perkins Oil & Gas, Inc.	UNKNOWN	not available	191	PLUGGED	39 145149	-80.544277
28	4704102622	Lewis	N A Lovett	Dominion Energy Transmission, Inc.	UNKNOWN	not available	300	ABANDONED	39.121100	-80.528526
29	4704102624	Lewis	J H Bailey	Dominion Energy Transmission, Inc.	Gantz	Storage	2710	ACTIVE	39.135354	-80.539307
30	4704104696	Lewis	TJFahey	Dominion Energy Transmission, Inc.	UNKNOWN	not available	1 6	PLUGGED	39.142104	-80.533709
31	4704130012	Lewis	J M Hall	Federal Oil & Gas	UNKNOWN	not available	1 3 1	PLUGGED	39.148920	-80.539486
32	4704130100	Lewis	Goff Bailey	Hope Natural Gas Company	Fifth	Gas w/ Oil Show	2771	PLUGGED	39.145004	-80.542787
33	4704130207	Lewis	Gayl Gum	Atha Supply Company	UNKNOWN	not available		PLUGGED	39.146164	-80.542042
34	4704130274	Lewis	W L Hall	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2567	PLUGGED	39.147034	-80.540044
35	4704130506	Lewis	Chas W Rhodes	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2689	PLUGGED	39.137753	-80.537804
36	4704130704	Lewis	Alice White	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Gas	2675	PLUGGED	39.148194	-80.543210
) and WVDEP WEBSITE A			ES WELL WITH TVD > 4,50	o'	CREEN DE	NOTES SURVEYED	The state of the s

WW-9 (4/16)

API Number 47 -Operator's Well No. Burnside 1214 N-2H

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 to complete the proposed well work? Yes V No No No V
If so, please describe anticipated pit waste: NA
Will a synthetic liner be used in the pit? Yes No V If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Will a synthetic liner be used in the pit? Yes No V If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number
Reuse (at API Number TED - At next anticipated well
Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, ro-used or haufed to an approved disposal site or landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc
-If oil based, what type? Synthetic, petroleum, etc. Synthetic
Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA
-Landfill or offsite name/permit number? See Attached
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Dinne White
Company Official (Typed Name) Diane White
Company Official Title Agent
Subscribed and sworn before me this 3rd day of May , 20 21
Notary Public OFFICIAL SEAL
My commission expires 7 3 2027 STATE OF WEST VIRGINIA NOTARY PUBLIC CASSIDY A. BOARDMAN

Form WW-9

Operator's Well No. Burnside 1214 N-2H HG Energy II Appalachia, LLC Proposed Revegetation Treatment: Acres Disturbed 6.32 Prevegetation pH 3 Tons/acre or to correct to pH 6.5 Fertilizer type 10-20-20 500 Fertilizer amount lbs/acre Hay 2 Tons/acre Mulch Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Tall Fescue 40 Tall Fescue 40 Ladino Clover 5 Ladino Clover 5 Maintain E&S controls through the drilling and completion process Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by Delander Comments: Pre-seed/mulch as soon as reasonably possible per regulation. Upgrade E&S if needed per WV DEP E&S manual. Title: WV DEP Oil & Gas Inspector Date: 12.13 (2021 Field Reviewed?

Cuttings Disposal/Site Water

Cuttings —Haul off Company:

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

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 740-543-4389

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

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

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

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

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

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

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

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

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014 02/04/2022

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

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

Energy Solutions Services, Inc. Permit # R-78006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

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

Water Haul off Companies:

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

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

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

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Clairsville, OH 48950

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

Disposal Locations:

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

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

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

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

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

Equipment Transport 1 Tyler Court Carlisie, PA 17015

Myers Well Service, ___ 2001 Ballpark Court Export, PA 15682

Burns Orilling & Excavating 618 Crahappie Road P.O. Bow Wind Ridge, PA 16380

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 48767 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 # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

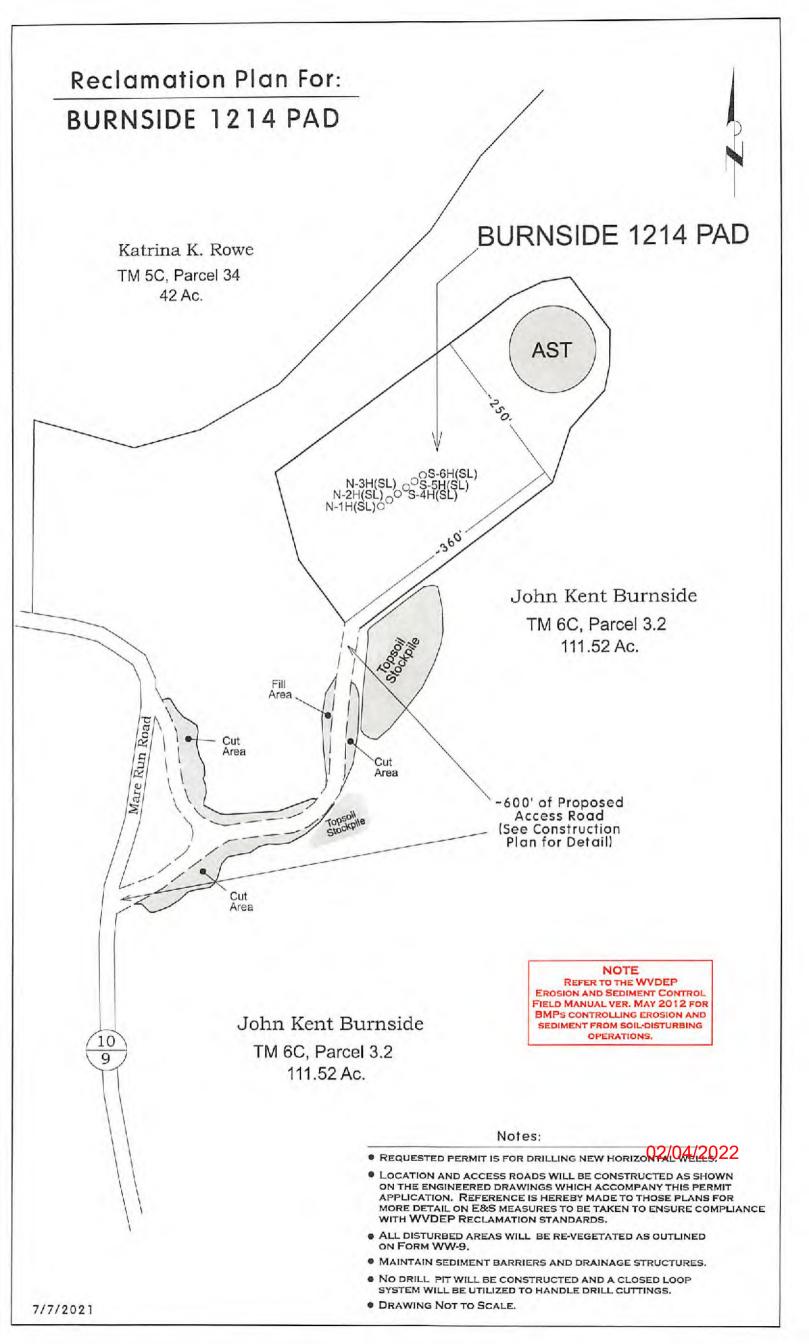
SOS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Silcor Olifield Services, Inc.
2939 Hubbard Road
Youngstown, PH 44505

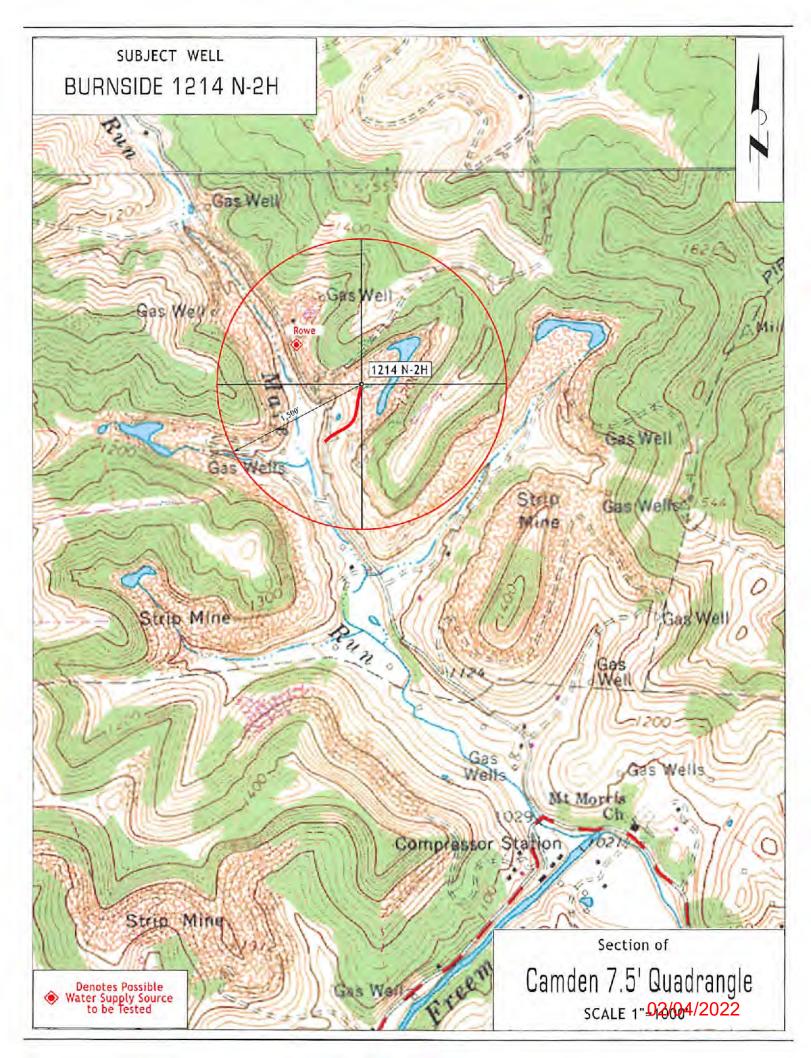
Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasants Hwy
St. Marys, WV 26170
304-665-2652

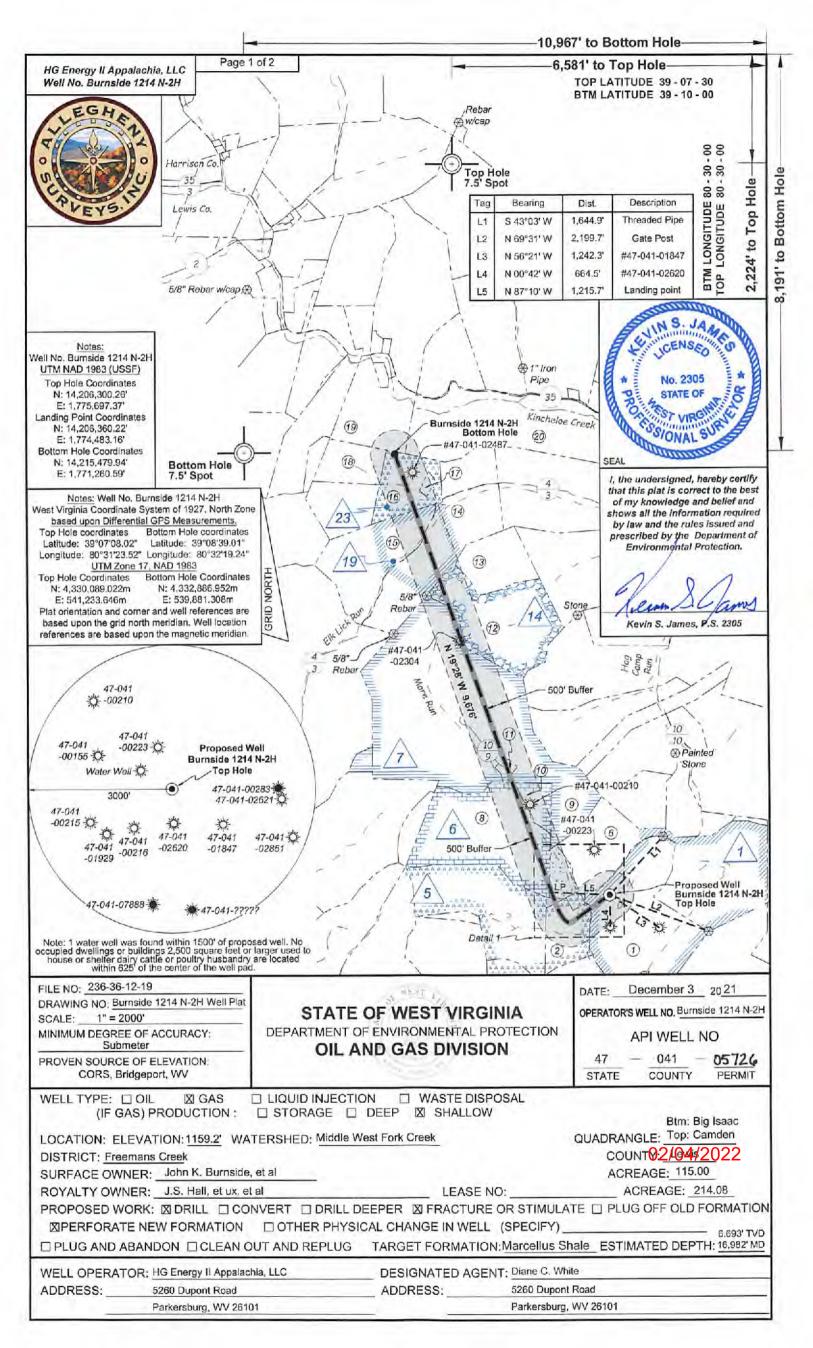
OH UIC #1 Bu keye UIC Barnesville 1 & 2 CNX Gas Com. Jany, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

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

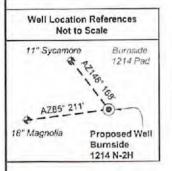
Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4197-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966











ID	Lease
1.	J.S. Hall, et ux
3	Zina L. Kershner, et vir
4	M.I. Metheny, at vir
5	Blonda S. Hall, et al
6	N.A. Lovett, et ux
7	Hudson Bailey, et al
14	John L. Burnside, et ux
19	W.T. Rhodes, et al
23	Arta R. Loudin, et al

1" = 2000'

MINIMUM DEGREE OF ACCURACY:

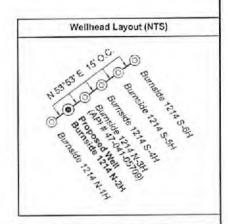
Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

SURFACE OWNER: John K. Burnside, et al

SCALE:





Legend		
•	Proposed gas well	
*	Well Reference, as noted	
⊕	Monument, as noted	
-00-	Existing Well, as noted	
*	Existing Plugged Well, as noted	
*	Digitized Well, as noted	
	 Creek or Drain 	
	 Existing Road 	
	 Surface boundary (approx.) 	
	 Adjoiner surface tracts (approx.) 	

		Lewis Co Freeman Creek Dist.		
No.	TM / Par	Owner	Bk/Pg	Ac.
1	6C / 3.2	John K. Burnside, et al	666 / 44	115.00
2	5C / 41	Phillip E. Burnside	766 / 831	23.90
3	5C / 37	Phillip E. Burnside	766 / 831	83.75
4	5C / 36	Phillip E. Burnside	766 / 831	0.71
5	5C / 41.1	Mike Ross, Inc., et al	676 / 133	2.09
6	5C / 34	Karina K. Rowe	572 / 209	42.00
7	5C / 35	Robert S. Glotfelty	399 / 241	14.77
8	5C / 32	Robert S. Glotfelty	399 / 241	94.40
9	5B / 18	Mike Ross Inc.	659 / 215	279.9
10	5C / 33	John W. & Joyce M. Hall	567 / 82	12.30
11	5C / 51	Melissa A. & Lester Bleigh	748 / 284	3.03
12	5B / 38	Phillip E. Burnside	666 / 503	75.00
13	5B / 37	Phillip E. Burnside	666 / 503	36.00
14	5B / 32	John & Rhonda Myers	652 / 73	76.64
15 58 / 31		Mark D. Griffith, et ux	652 / 69	64.04
16	5B / 33	Kelly Joanne Burrows Bowie	622 / 463	33.49
17	5B / 33.1	Christa Burrows, et al	F30 / 856	3.01
18	5B / 28	Kelly Joanne Burrows Bowie	622 / 463	21.25
19	5A / 16.1	Charles D. & Samantha L. Brosius	710 / 356	49.90
		Harrison Co Union-Outside Dist.		
No.	TM / Par	Owner	Bk/Pg	Ac.
20	442 / 8.3	William Coffindaffer, et ux (LE), WVU Foundation, Inc.	1585 / 819	114.79

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

DATE: December 3 20 21

OPERATOR'S WELL NO. Burnside 1214 N-2H

API WELL NO

47 - 041 - **0572**6 STATE COUNTY PERMIT

QUADRANGLE: Top: Camden

Btm: Big Isaac

WELL TYPE: OIL SAS	
(IF GAS) PRODUCTION	N: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: 1159.2	WATERSHED: Middle West Fork Creek
EGGATION. EEE TATION.	William .
DISTRICT: Freemans Creek	

COUNTY: <u>Lewis</u>

ACREAGE 27/94/2022

SE NO: ______ ACREAGE: _214.08

□ PLUG AND ABANDON □ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 16,982' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

ADDRESS: 5260 Dupont Road

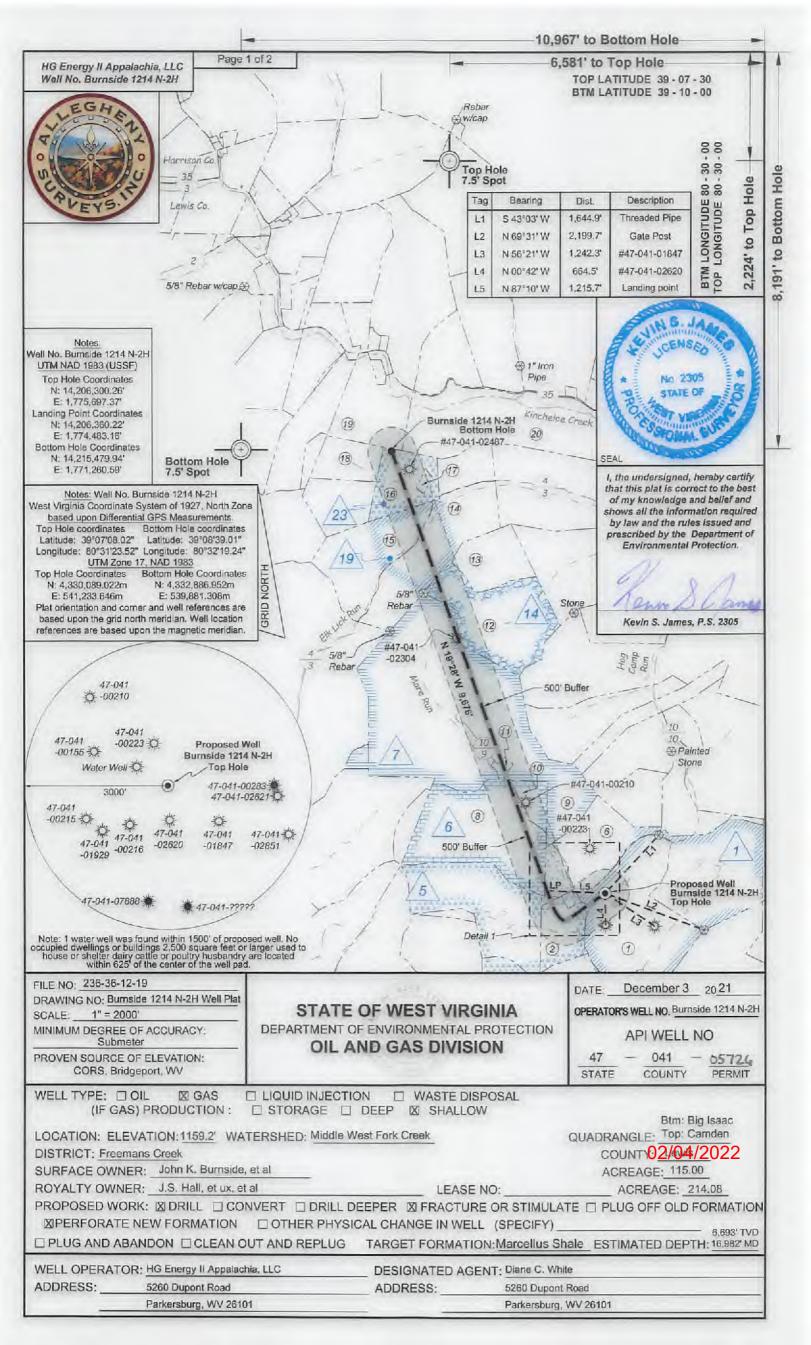
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White

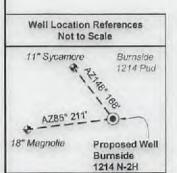
5260 Dupont Road

Parkersburg, WV 26101

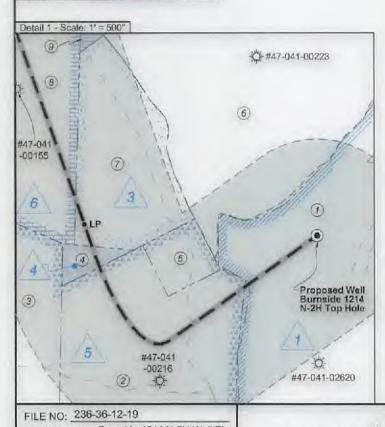
Parkersburg, WV 26101



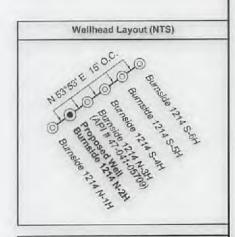




ID.	Lease
1	J.S. Hall, et ux
3	Zina L. Kershner, et vir
4	M.I. Metheny, et vir
5	Blonda S. Hall, et al
6	N.A. Lovett, et ux
7	Hudson Bailey, et al
14	John L. Burnside, et ux
19	W.T. Rhodes, et al
23	Arta R. Loudin, et al



Parkersburg, WV 26101



		Legend
	•	Proposed gas well
	*	Well Reference, as noted
	(Monument, as noted
	*	Existing Well, as noted
	*	Existing Plugged Well, as noted
	紫	Digitized Well. as noted
-	-	- Creek or Drain
-	-	 Existing Road
	T.E.	Surface boundary (approx.) Adjoiner surface tracts (approx.)

		Lewis Co Freeman Creek Dist.			
No.	TM / Par	Owner	Bk / Pg	Ac.	
1	6C / 3.2	John K. Burnside, et al	666 / 44	115.00	
2	5C / 41	Phillip E. Burnside	766 / 831	23.90	
3	5C / 37	Phillip E. Burnside	766 / 831	83.75	
4	5C/36	Phillip E. Burnside	766 / 831	0.71	
5	5C / 41.1	Mike Ross, Inc., et al	676 / 133	2.09	
6	5C / 34	Karina K. Rowe	572 / 209	42.00	
7	5C / 35	Robert S. Glotfelty	399 / 241	14.77	
В	5C / 32	Robert S. Glotfelty	399 / 241	94.40	
9		5B / 18 Mike Ross Inc.	Mike Ross Inc.	659 / 215	279.97
10	5C / 33	John W. & Joyce M. Hall	567 / 82	12.30	
11 12 13	5C / 51 Melissa A. & Lester B	Melissa A. & Lester Bleigh	748 / 284	3.03 75.00	
	5B / 38	Phillip E. Burnside	666 / 503		
	5B / 37	Phillip E. Burnside	666 / 503	36.00	
14	5B / 32	B / 32 John & Rhonda Myers	652 / 73 652 / 69	76.64 64.04 33.49	
15	5B / 31	Mark D. Griffith, et ux			
16	5B / 33	33 Kelly Joanne Burrows Bowie 6	622 / 463		
17	5B / 33.1	Christa Burrows, et al	F30 / 856	3.01	
18	5B / 28	Kelly Joanne Burrows Bowie	622 / 463	21.25	
19	5A / 16.1	Charles D. & Samantha L. Brosius	710 / 356	49.90	
		Harrison Co Union-Outside Dist.			
No.	TM / Par	Owner	Bk/Pg	Ac.	
20	442 / 8.3	William Coffindaffer, et ux (LE), WVU Foundation, Inc.	1585 / 819	114.79	

Parkersburg, WV 26101

DRAWING NO: Burnside 1214 N-2H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

WELL TYPE: □ OIL □ GAS □ LIQUID INJECTIO (IF GAS) PRODUCTION: □ STORAGE □		L Btm: Big Isaac
LOCATION: ELEVATION: 1159.2' WATERSHED: Middle We DISTRICT: Freemans Creek	est Fork Creek	QUADRANGLE: Top: Camden COUNT 02/04/2022
SURFACE OWNER: John K. Burnside, et al ROYALTY OWNER: J.S. Hall, et ux, et al	LEASE NO:_	ACREAGE: 115.00 ACREAGE: 214.08
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DE ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSIC ☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	AL CHANGE IN WELL (SF	PECIFY)
WELL OPERATOR: HG Energy II Appalachia, LLC ADDRESS: 5260 Dupont Road	DESIGNATED AGENT: D	iane C. White 260 Dupont Road

WW-6A1 (5/13)

1214 N-2H
•

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

RECEIVED
Office of Oil and Gas

DEC 1 4 2021

WV Department of Environmental Protection

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 N-2H Lease Chain

						The state of the s			
	1214N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
┢					J. S. HALL AND CORA A. HALL, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	94
١				l .	SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
1					HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	
ı					RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
ı					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
ı					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
1					CONSOLIDATED GAS SOPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
ı						DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
١				1	CNG TRANSMISSION CORPORATION		MEMORANDUM OF FARMOUT AGREEMENT	672	154
ı					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC		684	
ı	_		03-006C-0003-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	712	
1	1	FK053143	03-006C-0003-0001	Q101021000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		
ı			03-005C-0042-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
ı					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
ı				ì	DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
İ					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	AMENDED AND RESTATED PARTIAL ASSIGNMENT	723	52
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
ŀ				ļ			THIRD AMENDMENT TO MEMORANDUM OF		1
Н					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
١					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
					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				
1					HALL GIBBS; AND, HERBERT F. GIBBS, JR., HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	222	
1					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
ı			03-005C-0037-0000 03-005C-0040-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
Л				0000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
1					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
ı	5	FK064784		Q101057000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
ı		İ	03-005C-0041-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	
1					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
١					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
ı		1			DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	49
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	55
1				1	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
ı					M. I. METHENY AND M. G. METHENY, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	226	
١					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
1					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	12
١				1	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
-					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	. 15
١	j				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	5

- 1			1	1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
V	4	FK065107	03-005C-0036-0000	Q100440000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
					DOLANGO SUEDON TO MUSE MISSION INC	UC SUSDEVII ADDALASIIIA LIS	THIRD AMENDMENT TO MEMORANDUM OF	774	550
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734 736	558 220
⊢					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	221	97
- 1			1		ZINA L. KERSHNER AND F. H. KERSHNER,HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8 CONFIRMATORY DEED		
- 1				į.	RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY		155 294	202 89
				i	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CONFIRMATORY DEED	425	127
					CONSOLIDATED GAS SUPPLY CORPORATION		ASSIGNMENT	WVSOS	12/
				ļ	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE MERGER/NAME CHANGE	wvsos	
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MEMORANDUM OF FARMOUT AGREEMENT	672	154
					DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC	CNX GAS COMPANY LLC		684	57
/	_	54054344	03 0055 0035 0000	0*00055000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		848
ľ	3	FK064311	03-005C-0035-0000	Q100856000	beninner manismosien, mer 12 / 12 / 12 / 13 / 14 / 15 / 15 / 15 / 15 / 15 / 15 / 15	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712 717	048
				!	CNX GAS COMPANY LLC NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	ASSIGNMENT ASSIGNMENT	717	170
						HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	170
- 1			ŀ		DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF	WV303	
- 1					DOMAINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
I					DOMINION ENERGY TRANSMISSION, INC.	no energy ii Affalachia, LLC	THIRD AMENDMENT TO MEMORANDUM OF	723	433
1					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
ŀ	· · · · · · · · · · · · · · · · · · ·			 	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
l						CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
- 1					HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SOFFET CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
√L	6	FK053161	03-005C-0032-0000	Q100334000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
٧I	٠	1 1055101	03-005C-0033-0000	Q100354000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
- 1					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				1			SECOND AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
					,	i i	THIRD AMENDMENT TO MEMORANDUM OF		
- 1			1		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
r	-				HUDSON BAILEY AND CHARLOTTE BAILEY, HIS WIFE	A. W. WOODFORD AND GEO. MCGIRE	NOT LESS THAN 1/8	33	424
					JAMES M. GUFFEY AND JOHN H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	583
					THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141
					PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	185
I					EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	. 246	192
Ì			l	1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
J			1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
71			02 0050 0040 0005	0400770000	CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
Jl	7	FK052228	03-005B-0018-0000	Q100758000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
٠			03-005C-0051-0000	Q102422000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
- 1					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	i	ĺ	! !		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
1							SECOND AMENDMENT TO MEMORANDUM OF		
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
					DOMINION EXERCITIVE NO. 110 MICHIGAN PROPERTY NO.		THIRD AMENDMENT TO MEMORANDUM OF		
	1				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
ŀ					JOHN L. BURNSIDE AND GRACE BURNSIDE, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	185	338
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
l					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
			1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
- √I					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
	14	FK058271	03-006B-0038-0000	Q100681000	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	
	Į.						SECOND AMENDMENT TO MEMORANDUM OF		
ŀ					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
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
ł					W. T. RHODES AND NELLIE RHODES, HIS WIFE; DAISY V. FURR,				
					WIDOW; OCIE M. BELL; J. R. RHODES AND BERTHA RHODES, HIS WIFE;				ŀ
1					GRACE G. LOUGH, WIDOW; WORTHY H. OLDAKER AND FREEDA F.				
					OLDAKER, HIS WIFE; EDITH M. WESTFALL AND CHARLES E. WESTFALL,				ľ
			p/o 03-005B-0031-0000 p/o 03-005B-0032-0000	Q100562000	HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	233	435
					HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
					CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
1					CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
					CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
,					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
- √	19	FK065886			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	139
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
l							SECOND AMENDMENT TO MEMORANDUM OF		
					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
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220



	23	FK058657	03-005B-0033-0000 03-005B-0033-0001	Q100392000	ARTA R. LOUDIN; BERTHA RHODES, WIDOW; THOMAS P. LOUDIN, HUSBAND OF ARTA R. LOUDIN; DAISY V. FURR, WIDOW; INA GRACE WOLFE AND RALPH C. WOLFE, HER HUSBAND; ORSO D. BELL AND ETHEL K. BELL, HIS WIFE; HAROLD E. OLDAKER AND VALENA OLDAKER, HIS WIFE; FREEDA OLDAKER, WIDOW; RUBY KLINGER; WANDA J. TRAVIS AND FRANK R. TRAVIS, HER HUSBAND; ETHEL M. WESTFALL AND CHARLES E. WESTFALL, HER HUSBAND; VELMA R. HYRE AND KEMPER D. HYRE, HER HUSBAND; GRACE G. LOUGH, WIDOW; PAULINE TAYLOR AND EDWARD B. TAYLOR, HER HUSBAND; W. T. RHODES AND NELLIE RHODES, HIS WIFE; GARY N. PERTZ, HUSBAND OF ETTA MAXINE PERTZ; JEAN FLORY AND E. BRUCE FLORY, HER HUSBAND; LUCILLE HEATER AND EBERT C. HEATER, JR., HER HUSBAND; EVELYN BUTCHER AND GILBERT L. BUTCHER, HER HUSBAND; JAMES JASON BAILEY AND MARY ANN BAILEY, HIS WIFE, BY EDITH MAXINE PERTZ, THEIR ATTORNEY IN FACT; ETTA MAXINE PERTZ, WIFE OF GARY N. PERTZ; EVA C. BEALL CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	NOT LESS THAN 1/8 ASSIGNMENT	303 425 WVSOS	284 127
					CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE MERGER/NAME CHANGE	WVSOS	
- 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
					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	
					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
					DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220





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

May 7, 2021

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

Drilling Under Roads - Burnside 1214 N-2H RE:

Freemans Creek District, Lewis County

West Virginia

Dear Ms. Kees:

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

DEC 14 2021

WV Department of ton Environmental Protection

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

Date of Notic	e Certification: 05/07/2021		API No. 47				
			Operator's	Well No. Burns	side 1214 N-2H		
			Well Pad N	lame: Burnside	e Well Pad		
Notice has b	oeen given:						
Pursuant to th	e provisions in West Virginia Code	e § 22-6A, the Operator has prov	ided the req	uired parties v	vith the Notice Forms listed		
below for the	tract of land as follows:						
State:	West Virginia	UTM NAD 83	Easting:	541233.6 4330089.0			
County:	Lewis	·	Northing:				
District:	Freemans Creek				Mare Run Road / CR 10/9		
Quadrangle:	Camden WV 7.5's	Generally used fa			Burnside		
Watershed:	Middle West Fork Creek						
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and ed the owners of the surface descequired by subsections (b) and (c), surface owner notice of entry to of subsection (b), section sixteen e § 22-6A-11(b), the applicant shal have been completed by the applic	cribed in subdivisions (1), (2) a section sixteen of this article; (ii survey pursuant to subsection (a of this article were waived in all tender proof of and certify to the section of t	nd (4), subs i) that the rec a), section t writing by	ection (b), sec quirement was en of this arti the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West		
that the Ope	West Virginia Code § 22-6A, the Grator has properly served the requience.	Operator has attached proof to the ired parties with the following:	his Notice C	ertification	OOG OFFICE USE		
	FICE OF SEISMIC ACTIVITY	or I NOTICE NOT REQUIR			RECEIVED/ NOT REQUIRED		
■ 2. NO	TICE OF ENTRY FOR PLAT SUI	RVEY or D NO PLAT SURV	EY WAS CO	ONDUCTED	□ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL o	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR INVAS CONDUCTED OF			☐ RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER 1 (PLEASE ATTACH)		CE OWNER			
■ 4. NO	TICE OF PLANNED OPERATION	N			☐ RECEIVED		
■ 5. PU	BLIC NOTICE				☐ RECEIVED		
■ 6. NO	TICE OF APPLICATION				☐ RECEIVED		

Required Attachments:

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

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

Covarida Boodon Notary Public

My Commission Expires 7 31 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 deepprivacyofficer@wv.gov.

WW-6A (9-13)

API NO. 47	
OPERATOR WE	LL NO. Burnside 1214 N1H - S6H
Well Pad Name:	Burnside 1214

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

Noti	ce Time Require	ment: notice shall	be provided no later than	n the filing	date of permit application.	
	of Notice: <u>07/01/2</u> ce of:	Date Permit	Application Filed: 7/01/2	21		
V	PERMIT FOR A WELL WORK		CERTIFICATE OF APPLICATION OF A			
Deli	very method pur	suant to West Vir	ginia Code § 22-6A-10	(b)	•	
	PERSONAL SERVICE	REGISTER MAIL			LIVERY THAT REQUIRES A NATURE CONFIRMATION	
regis sedir the soil and description operation of the soil and description operation o	tered mail or by ar nent control plan r nurface of the tract and gas leasehold be ribed in the erosion ator or lessee, in the coal seams; (4) T work, if the surface nundment or pit as a water well, sprint ide water for const osed well work act ection (b) of this ser discontraction of this article ex. § 35-8-5.7.a r	ay method of deliver equired by section s on which the well is eing developed by the n and sediment contract he event the tract of land he owners of record described in section ag or water supply sumption by humans tivity is to take place ection hold interests equired to be maintage to the contrary, not requires, in part, that	y that requires a receipt of even of this article, and the or is proposed to be located proposed well work, if roll plan submitted pursual and on which the well prof the surface tract or traction for the placement, construction in the lands, the applicant in the lands, the applicant in the operator shall also proved the population of the traction of this article; (5) A purce located within one for domestic animals; and the c. (c)(1) If more than three in the lands, the applicant in the pursuant to section exists the operator shall also proved the property of the prope	or signature the well plat ted; (2) The ted; (2) The ted; (2) The ted to subsect opposed to but to subsect opposed to but to subsect opposed to but to subsect thousand fire (6) The oppose tenants in the tenants in the tenants in the tenants are tenants to a rovide the V	I by this article shall deliver, by person confirmation, copies of the application to each of the following persons: (1) To expendence of the surface tract of tract is to be used for roads or other laterion (c), section seven of this article; (is expendence of the categories of the oil and gas leasehold being develorgement, alteration, repair, removal or owner or water purveyor who is known to be the content of the well erator of any natural gas storage field we common or other co-owners of interest the documents required upon the persone, chapter eleven-a of this code. (2) landowner, unless the lien holder is the Well Site Safety Plan ("WSSP") to the sin section 15 of this rule.	the erosion and the owners of record of or tracts overlying the and disturbance as the coal owner, and the underlain by one or loped by the proposed abandonment of any a to the applicant to a lipad which is used to within which the tracks described in on described in the Notwithstanding any a landowner. W. Va.
Ø A	pplication Notic	e 🛮 WSSP Notice	e ☑ E&S Plan Notice	☑ Well P	lat Notice is hereby provided to:	RECEIVED Office of Oil and Gas
☑ SU Nam	JRFACE OWNE	R(s) nside (pad, road, water)		☐ COAL Name: N	OWNER OR LESSEE	DEC 1 4 2021
	ress: 645 Mare Run			Address:		
	Weston, WV 2	6452				Environmental Protection
Nan	e: Bertha Benedu	m (pad, road, water)			OPERATOR	
Add	ress: 604 Mare Run				<u> </u>	
	Weston, WV 2			Address:		
		R(s) (Road and/or (- CTTDEA	OF OVERED OF WATER WELL	
Nam	ie:			_	CE OWNER OF WATER WELL	
Add	ress:		-		WATER PURVEYOR(s) Karina Rowe	•
Non				Name:	1148 Mare Run Road	
INSET	recc·			riuui vaa.	Weston, WV 26452	
Auu	. 033.			IZI OPER A	TOR OF ANY NATURAL GAS ST	ORAGE FIELD
	JREACE OWNE	R(s) (Impoundment	ts or Pits)	Name:	Dominion Energy Transmission - Attn: Ronald Wal	
		(c) (impoundment			925 White Oaks Blvd	
Add	ress:		-		Bridgeport, WV 26330	
				*Please a	ttach additional forms if necessary	

WW-6A (8-13) HECEIVED Office of Oil and Eas

DEC 1 4 2021

API NO. 47-OPERATOR WELL NO. Sumsiss 1214 NITIF SER Well Pad Name; Sumside 1214

WV Department of Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application: (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

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

API NO. 47-___-

OPERATOR WELL NO. Burnsido 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 as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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

API NO, 47OPERATOR WELL NO; Burnside 1214 N1H-SSH
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(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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

dwhite@hgenergyllc.com Email:

Diane White

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 1st day of July Notary Public My Commission Expires



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

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

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

Enclosures



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



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



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

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

RECEIVED Office of Oil and Gas

DEC 1 4 2021

WV Department of Environmental Protection



May 7, 2021

RECEIVED Office of Oil and Gas

DEC 1 4 2021

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RE:

Burnside 1214 N-1H thru S-6H

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

WW-6A3 (1/12) Operator Well No. Burnside 1214 N-1H to 5-6H

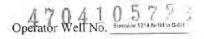
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Date of Notice: 10.21/23/23/20 Date of Planned Entry: 10.08/20/20 Date of Notice: 10.21/23/23/20 Date of Planned Entry: 10.08/20/20 Delivery method pursuant to West Virginia Code § 22-6A-10a PERSONAL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to West Virginia Code § 22-6A-10(a), Prior to filling a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry, to (1) The surface owner of such tract; (2) to any owner of such tract; (2) to any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosio and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: 30-40 mart Philip Euroside (pad. royalty owner) Address: 645 Mare Run Road Address: 645 Mare Run Ro		equirement:	Notice shall be prov	ided at le	ast SEVEN (7) day	ys but no more than	1 FORTY-FIVE (45) days prior to
PERSONAL		10/21/2020	Date of Plan	nned Ent	ry: 10/28/2020		
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to; (1) The surface owner of such trust (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosio and Sediment Control Manual and the stantes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: SURFACE OWNE	Delivery metho	d pursuant	to West Virginia C	ode § 22-	6A-10a		
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on to the surface tract to conduct any plat surveys required pursuant to this arricle. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, arricle six, chapter twenty-two of this code; and (3) any owner or minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosio and Sediment Control Manual and the stantes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: John and Philip Burnside (pad, royally owner) Address: Addr							
Surface Owner(s) Name: John and Phillip Burnside (pad, royalty owner) Address: Gest Mare Run Fload Address: Office of Oil and Gas Name: Na Name: Na Address: Office of Oil and Gas Name: Na Name: Na Name: Na Address: Office of Oil and Gas Name: Na Address: Office of Oil and Gas Name: Na Name:	on to the surface but no more than beneath such tra owner of minera and Sediment C Secretary, which enable the surface	e tract to cond in forty-five d act that has fil als underlying ontrol Manua in statement si ce owner to c	duct any plat surveys lays prior to such end led a declaration pur g such tract in the co al and the statutes an hall include contact obtain copies from the	s required try to: (1) suant to s ounty tax r d rules re information	pursuant to this ar The surface owner ection thirty-six, ar ecords. The notice lated to oil and gas on, including the ac	ticle. Such notice s r of such tract; (2) t rticle six, chapter to e shall include a sta s exploration and pr	shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any attement that copies of the state Erosion roduction may be obtained from the
Name: John and Phillip Burnside (pad, royalty owner) Address: 645 Mare Run Road Weston, WV 26452 Name: Bertha Bernedum Address: 604 Mare Run Road Weston, WV 26542 Name: Bertha Bernedum Address: 604 Mare Run Road Weston, WV 26542 Name: Bertha Bernedum Address: 604 Mare Run Road Weston, WV 26542 Name: Bertha Bernedum Address: 604 Mare Run Road Weston, WV 26542 Name: Bertha Bernedum Address: 604 Mare Run Road Weston, WV 26542 Name: Bertha Bernedum Address: 604 Mare Run Road 2978 Sycamore Lisk Rolley Department of Waston, WV 26547 Pursuant to West Virginia Code \$ 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: Waston, WV 26542 Name: Approx. Latitude & Longitude: 36.119010 & 80.522974 Public Road Access: Mare Run Road / OR109 District: Freeman's Crock Watershed: Mare Run Road / OR109 District: Freeman's Crock Generally used farm name: Bounside Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: He Energy il Appalachia, LLC Address: 5260 Dupont Road Parkeraburg, WV 25101			0:	,	П сол	OWNER OR LE	SSEE
Address: 645 Mare Run Road Weston, WV 26452 Name: 604 Mare Run Road Weston, WV 26542 Name: 7 Mare Run Road Weston, WV 26542 Name: 8 Mare Run Road Weston, WV 26542 Name: 8 Mare Run Road Weston, WV 26542 Name: 8 Mare Run Road Weston, WV 26542 Name: 8 Mare Run Road Weston, WV 26542 Name: 9 Mare Road Weston, WV 26542 Name: 9 Mare Road Weston, WV 26542 Name: 9 Mare Road Weston, WV 26542 Notice is hereby given: 9 Mare Road Weston, WV 26542 Notice is hereby given: 9 Mare Road Weston, WV 26542 Notice is hereby given: 9 Mare Road Weston, WV 26542 Notice is hereby given: 1 Mare Road Weston, WV 26542 Notice is hereby given: 1 Mare Road Weston, WV 26542 Notice is hereby given: 1 Mare Road Weston, WV 26542 Notice is hereby given: 1 Mare Road Access: Mare Road Weston, WV 26542 Notice is hereby given: 1 Mare Road Access: Mare Road Weston, WV 26542 Notice is hereby given www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: 8 Mare Road Weston,			(pad, royalty owner)				30131.
Name: Heartha Benedum Name: Heartha Benedum Name: Eartha Benedum Name: Heartha Benedum Name: Eartha Benedum Name: Eartha Benedum Cynthia Sumptor C		re Run Road		-			RECEIVED
Address: 604 Mare Run Road Weston, WV 28542 Name: Bertha 8 Eric Benedum Cynthia Sumpter Address: 604 Mare Run Road 3267 Sycamora Lick RoWV Department of Weston, WV 28542 Jane Lew, WV 26376 Invironmental Protection **please attach additional forms if necessary* Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Application Public Road Access: Mare Run Road / OR10/9 District: Fromain's Crook Watershed: Watershed: Mare Run Road / OR10/9 District: Fromain's Crook Watershed: Generally used farm name: Burnside Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Hig Energy Appliabilia, LLC Address: S260 Dupont Road Parkersburg, WV 25101							
Name: Address: Address: 604 Mare Run Road 3297 Syzamara Lick Road Department of West Virginia Code \$ 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: Approx. Latitude & Longitude: 39.119010 & 80.522974	ranic.	11.40.204.004	/			* 0.7875 0.000	
Name: Address: 604 Mare Run Road Weston, WV 26542 Jane Lew. WV 26376 invironmental Protection **Polesse attach additional forms if necessary* **Notice is hereby given: **Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: 39.119010 & 80.522974 **County: Lowis Public Road Access: Mare Run Road / CR10/9 District: Froman's Crook Watershed: Middle West Fork Crook Quadrangle: Camdon WV 7.5' Generally used farm name: Burnside Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. **Notice is hereby given by:** Well Operator: HG Energy Appalachia, LLC Address: 5260 Dupont Road **Telephone: 304-426-1119 **Parkersburg, WV 25101**					■ MINE	ERAL OWNER(s)	DEC 1 4 2021
Address: Weston, WV 26542 Jane Lew. WV 26576 Invironmental Protection *please attach additional forms if necessary *please attach additional forms if necessar				-			
Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: 39.119010 & 80.522974 County: Lewis Public Road Access: Mare Run Road / CR10/9 District: Froeman's Grook Watershed: Middle West Fork Grook Quadrangle: Camdor WV 7.5' Generally used farm name: Burnside Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: HG Energy Appalachia, LLC Address: 5260 Dupont Road Telephone: 304-420-1119 Parkersburg, WV 25101				-			3297 Sycamore Lick Roll V Department of
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Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: HG Energy Appalachia, LLC	Pursuant to Wes a plat survey on State: v County:	st Virginia Co the tract of li Vest Virginia ewis		notice is h	Approx. Latite Public Road A	ude & Longitude:	39.119010 & 80.522974 Mare Run Road / CR10/9
Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: HG Energy Appalachia, LLC		amder WV 7.5			A THE PART OF THE	d farm name:	Burnside
Well Operator: HG Energy II Appalachia, LLC Address: 5260 Dupont Road Telephone: 304-420-1119 Parkersburg, WV 26101	may be obtained Charleston, WV	from the Se 25304 (304	cretary, at the WV I -926-0450). Copies	Department of such of	nt of Environmenta locuments or additi	l Protection headquional information re	uarters, located at 601 57th Street, SE,
Well Operator: HG Energy Appalachia, LLC Address: 5260 Dupont Road Telephone: 304-420-1119 Parkersburg, WV 26101	Notice is here	by given by	7:				
					Address:	5260 Dupont Road	
Email: dwblte@bgenergyllc.com Facsimile: 304-863-3172	Telephone:	304-420-1119				Parkersburg, WV 26101	
1 TO THE RESIDENCE OF THE PARTY	Email:	dwhite@hgenerg	gyllc.com		Facsimile:	304-863-3172	

Oil and Gas Privacy Notice:

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

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 e: 06/28/2021	be provided at least TE Date Permit Appl	N (10) days pication Filed:	rior to filing a	permit application	le.
Delivery met	hod pursuant to West Vir	ginia Code § 22-0A-10(u)			
☐ HAND	■ CERTIFIE	O MAIL				
DELIVE	RY RETURN I	RECEIPT REQUESTED)			
receipt request drilling a hor- of this subsect subsection ma and if availab	T. Va. Code § 22-6A-16(b), ted or hand delivery, give to zontal well: <i>Provided</i> , That tion as of the date the notice by be waived in writing by the, facsimile number and elements of the SU provided to the SU	he surface owner notice at notice given pursuant e was provided to the su he surface owner. The re- ectronic mail address of	of its intent to to subsection rface owner: notice, if requ the operator a	o enter upon the (a), section to Provided, how ired, shall included	e surface owner's n of this article sa never, That the not ude the name, add r's authorized rep	land for the purpose of trisfies the requirements tice requirements of this ress, telephone number,
THE	hin Kent Burnside	/	Name: Address:	604 Mare Run Ro	/	DEC 14 Zuri
. ruur obb.	5 Mare Run Road eston, WV 26452		Address:	Weston, WV 2645		WV Department of
State:	vner's land for the purpose West Virginia Lewis		TM NAD 83	Easting: Northing:	541229.9 4330086.3	
District:	Freemans Creek	p ₁	iblic Road Ac	3	Mare Run Road/CR 1	0/9
Quadrangle:	Camden WV 7.5		enerally used	2227	Burnside	
	Camden WV 7.5					
Watershed:	Middle West Fork Creek		enerally asea	rain name.		
This Notice Pursuant to facsimile nur related to hor		5A-16(b), this notice sh ddress of the operator a ained from the Secretar	all include the	ne name, addr tor's authorize Department o	ess, telephone nu ed representative. f Environmental I	Additional information Protection headquarters,
This Notice Pursuant to 'facsimile nur related to hor located at 60'	Middle West Fork Creek Shall Include: West Virginia Code § 22-6 nber and electronic mail a izontal drilling may be obt 157th Street, SE, Charleston reby given by:	5A-16(b), this notice sh ddress of the operator a ained from the Secretar	all include thand the opera y, at the WV 0450) or by vi	ne name, addr tor's authorize Department o siting <u>www.de</u>	ess, telephone nued representative. f Environmental I	Additional information Protection headquarters,
This Notice Pursuant to Y facsimile nur related to hor located at 60 Notice is he Well Operato	Middle West Fork Creek Shall Include: West Virginia Code § 22-6 ber and electronic mail a izontal drilling may be obt 57th Street, SE, Charleston reby given by: r: HG Energy II Appalachia, LLC	5A-16(b), this notice sh ddress of the operator a ained from the Secretar	all include the opera y, at the WV 0450) or by vi	ne name, addr tor's authorize Department o	ess, telephone nued representative. f Environmental I p.wv.gov/oil-and-	Additional information Protection headquarters, gas/pages/default.aspx.
This Notice Pursuant to Y facsimile nur related to hor located at 60	Middle West Fork Creek Shall Include: West Virginia Code § 22-ther and electronic mail a rizontal drilling may be obtained by Street, SE, Charleston reby given by: HG Energy II Appalachia, LLC 5260 Dupont Road	5A-16(b), this notice sh ddress of the operator a ained from the Secretar	all include thand the opera y, at the WV 0450) or by vi	ne name, addr tor's authorize Department o siting <u>www.de</u>	ess, telephone nued representative. f Environmental I	Additional information Protection headquarters, gas/pages/default.aspx.
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This Notice Pursuant to V facsimile nur related to hor located at 60 Notice is he Well Operate Address: Telephone:	Middle West Fork Creek Shall Include: West Virginia Code § 22-6 ber and electronic mail a izontal drilling may be obt 57th Street, SE, Charleston reby given by: r: HG Energy II Appalachia, LLC 5260 Dupont Road Parkersburg, WV 26101 304-420-1119	5A-16(b), this notice sh ddress of the operator a ained from the Secretar	all include the and the opera y, at the WV 0450) or by vi Authorized R Address:	ne name, addr tor's authorize Department o siting <u>www.de</u>	ess, telephone nured representative. f Environmental I p.wv.gov/oil-and- Diane White 5260 Dupont Road Parkersburg, WV 2 304-420-1119	Additional information Protection headquarters, gas/pages/default.aspx.
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Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator Well No. Burnelce 1214 n-1H-S-6H

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

Notice Time Date of Notic	Requirement: notice shall be provide ee: 07/02/2021 Date Permi	d no later than the filing of Application Filed: 07/23		application.
Delivery met	hod pursuant to West Virginia Code	e § 22-6A-16(c)		
■ CERTI	FIED MAIL [☐ HAND		
CONTRACTOR OF THE PARTY OF THE	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the soperation. The notice required by this provided by subsection (b), section to horizontal well; and (3) A proposed so surface affected by oil and gas operation.	urface owner whose land is subsection shall include on of this article to a surfacurface use and compensations to the extent the daten to the surface owner at	will be used for e: (1) A copy ce owner whose ation agreement mages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see 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 addres	s listed in the records of the sheriff at t	the time of notice):		
Name: John	Kent Burnside	Name:	Bertha Benedum	
Address: 645		Address	: 604 Mare Run Ros	
Wesi	on, WV 26452		Weston, WV 26452	2
Pursuant to V operation on State: County: District: Quadrangle: Watershed:	vest Virginia Code § 22-6A-16(c), noti the surface owner's land for the purpo West Virginia Lewis Freemans Creek Camden WV 7.5' Middle West Fork Creek	UTM NAD 8: Public Road A Generally use	well on the tra Easting: Northing: Access:	well operator has developed a planned act of land as follows: 541229.9 4330086.3 Mare Run Road / CR 10/9 Burnside
Pursuant to V to be provide horizontal we surface affect information a	ed by W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use and ted by oil and gas operations to the e- related to horizontal drilling may be of located at 601 57th Street, SE. C.	o a surface owner whose d compensation agreemer xtent the damages are co obtained from the Secret	land will be not containing an impensable und arry, 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 www.dep.wv.gov/oil-and-dep.wv.gov/
Well Operato	DE: HG Energy II Appalachia, LLC	Address:	5260 Dupont Road	
Telephone:	304-420-1119		Parkersburg, WV 26	6101
Email:	dwhite@hgenergyllc.com	Facsimile:	304-863-3172	
The Office o duties. Your	personal information may be disclose	ed to other State agencie	s or third parti	RECEIVED Office of Oil and Gas telephone number, as part of our regulatory ies in the normal course of flusiness 2012 as nformation Act requests. Our office will

appropriately secure your personal information. If you have any questions about our use or your personal information information personal information person

DEP's Chief Privacy Officer at depprivacyofficer@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
110 011410 01111 100		7647-14-5
		12125-02-9
		64742-47-8
Pro Hib II	Mixture	68412-54-4
110111011	- Invital C	68607-28-3
		107-21-1
		111-76-2
		67-56-1
		107-19-7
Silica Sand and Ground Sand	Mixture	14808-60-7
Silica Saliu aliu Giouliu Saliu	IVIIXture	1344-28-1
		1309-37-1
		13463-67-7
Hydrochloric Acid 22 DEG BE	7647-01-0	
PROGEL - 4.5	64742-96-7	
BIO CLEAR 2000	Mixture	25322-68-3
		10222-01-2
SCALE CLEAR SI 112	107-21-1	
PROBREAK 4	Mixture	57-50-1
		107-21-1
Sulfamic Acid	5329-14-6	
PRO - Flow - 102-N	Mixture	67-63-0
		68439-45-2
		2687-96-9
PROGEL - 4	9000-30-0	

RECEIVED
Office of Oil and Gas.

DEC 1 4 202:

WV Department of Environmental Protect



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

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

November 6, 2020

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

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

Subject: DOH Permit for the Burnside 1214 Pad, Lewis County Burnside 1214 N-2H 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.

RECEIVED

RECEIVED

Gas

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy, LLC. CH, OM, D-7

File

DEC 1 4 2021

WV Department of Environmental Protection

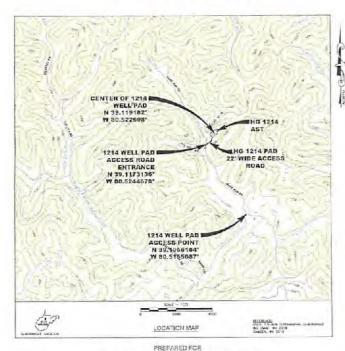
CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1214 WELL PAD

	SHEET TITLE
1	THEE SHEET
2A-20	SITE DEVELOPMENT PLANS
3	WELL PAD SECTIONS
4A	ACCESS ROAD SECTIONS
5A-5F	CONSTRUCTION NOTES & DETAILS
6B-5C	RESTORATION FLAN
7	PROPERTY MAP

CONSTRUCTION SEQUENCE

- Prior to commencement of any earth disturbance activity
 including cleaning 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
 defineate sensitive areas, inparian 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
 parked, staged, operated or located for any purpose.
- Site access This is the first land disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles,
- Sediment Barriers Install perimeter BMPs after the construction site is accessed, keeping associated dearing and grubbing limited to only that amount required for installing perimeter BMPs.
- Land Clearing and Grading Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
- Construction of Buildings, Utilities and Paving During construction, install and maintain any accilional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- 8. Final Stabilization, Topsoiling, Trees and Shrubs After construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last 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



HG ENERGY II APPALACHIA, LLC

5250 DUPONT ROAD FARKERSBURG, WEST VIRGINIA 26101 (304) 420-1100

PREPARED BY

PENN ENVIRONMENTAL & REMEDIATION, INC.

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

	на Врамен (C1.			
FINE Development - 1	Provid Oprious				
			T.A	F-B	Section
1214 Graff Find			2413	3.123	4210
1214 Well Pad Amains F	1041		945	. 218	727
TAIL			4.358	4,341	17
Est finist Forting		P.W.			4
Total Sto Balance:					21
Support Tupsed Autoba	of European)				3,546
Est. Swell Factor		20%			600
Est. Tacsol Strength V	thing Books C	77			Jatob
Marriero Total Stockyl	o Capaciny Roq	see (Co			5,076
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2. Topsacked vehicles 2. Maneral I debress and and relaying the fine region of A. Salvaston de red reference de la Salvaston de red red Estavaston de red red Estavaston de red red Estavaston de red red red red red red red red red	senior on 6 method appendix special sp	es Actrago repes has and quarter any relatives soul four 43 254 Sec. Longo	dige.	each.	15,200
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WILL #	LAT.	LDNG.
N-1H	N 39.1190321	W 80.5228453
N SH	N 39.1190580	W 80.5228852
N-3H	N 39,1190339	W 50.5229311
5-4H	N 39.1190098	W 50.5229740
S-5H	N 39.1189857	W 80.5230169
S-SH	N 39 1189516	W 80,5230597

WELL ELEVATIONS 1159.37

	LATITUDE	LONGITUDE
1214 WELL PAD ACCESS PONT	N 39.1065184*	W 80.5160087
1214 WELL PAD ACCESS ROAD ENTRA	NCE N. 39.1173136	W 80,5244678

RECORD DWNER	RECORD LOT #	RECORD AREA OF LOT	AREA WITHIN LOD
JOHN KENT BURNSOC	21-03-0060-0003-0002	111.52	5.22
MARE BUN ROAD J.R. 10/9	N/A	N/A	0.10
TOTAL LMIT DI	DISTURBANCE	-	6.32 AG

APPROVED
WVDEP OOG
12/11/2020

THE SERVICE OF STREET, THE PRIMER OF A THIRD SCHOOL AND CHE TANKETS IS THE SCHOOL THE RESIDANCE AND HAND THE SERVICE SCHOOL OF THE RESIDANCE AS THE SCHOOL THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL AND THE SERVICE SCHOOL THE SERVICE SCHOOL THE SERVICE SCHOOL THE SERVICE SCHOOL THE SERVICE SCHOOL THE SERVICE SCHOOL THE SERVICE SCHOOL TO

EVISION DATE DESCRIPTION



TITLE SHEET

HG 1214 PAD FREEMANS CREEK DISTRICT LEWIS COUNTY, WEST VIRGINIA

HG ENERGY II APPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

APPROVED MEP 10/06/2010
CHECKED MEP 10/08/2020
DRAIN SMI 10/08/2020
PROVED IN ASSET 10/08/2020
PROVED IN ASSET 10/08/2020
PROVED IN ASSET 10/08/2020
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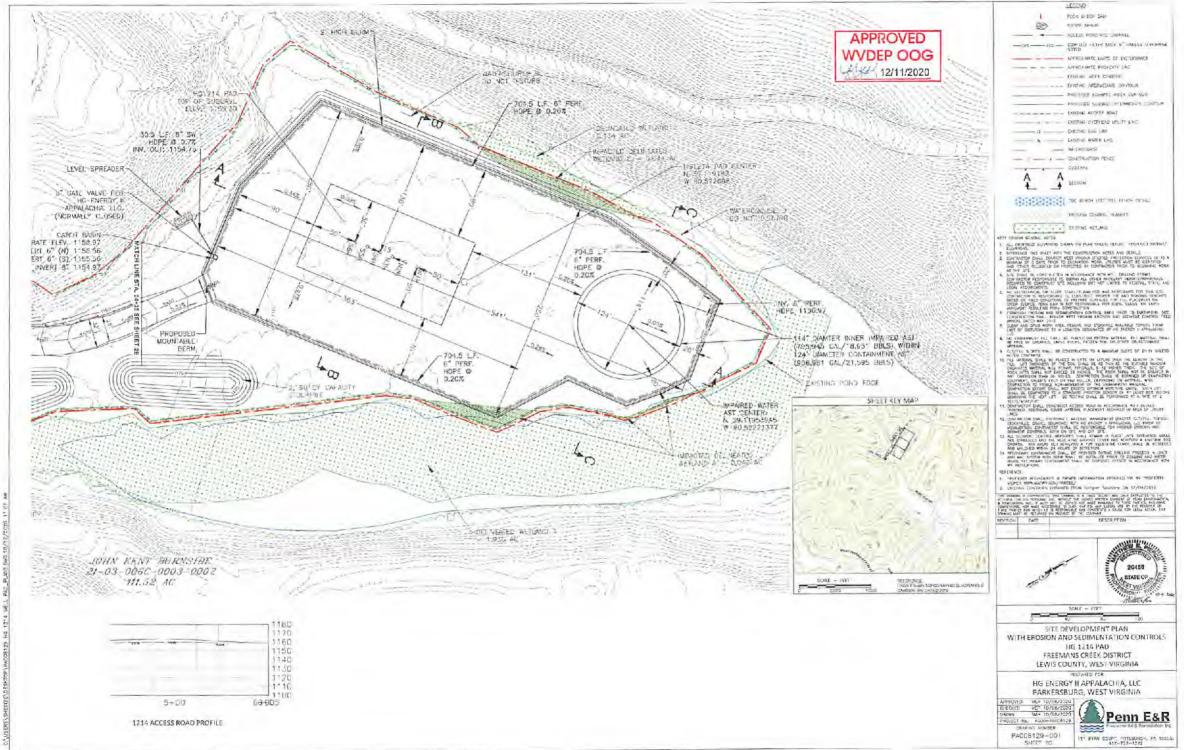


WEST VIRGINIA

YOU DIG!

 BERYICE LITHITY LIVES ARE NOT SHURNON THE HARR. THE CONTRACTOR SHRILL BE PREFORMINE FOR LOCATING MARITALERS AND REPLACING AS A DOCESAFY TO DIGURE CONTINUES BRIVICE.

DE 521800MG/SDNIMMGD/4121 DR 521900MG-0004/S



THE RESIDENCE AND ALCOHOLOGY