

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

Tuesday, December 3, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Permit Modification Approval for VAN WIE 1221 N-3H 47-041-05762-00-00

Lateral Extension

Re:

HG ENERGY II APPALACHIA, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-045

James A. Martin

Chief

Operator's Well Number: VAN WIE 1221 N-3H

Farm Name: HG ENERGY II APPALACHIA, LLC ET AL

U.S. WELL NUMBER: 47-041-05762-00-00

Horizontal 6A New Drill

Date Modification Issued: 12/03/2024

4704105762API NO. 47-____

OPERATOR WELL NO. Van Wie 1221 N-3H Well Pad Name: Van Wie 1221

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

4 1 2 2 2 2 2 2	110 E		31 18 W					
1) Well Operat	tor: HG Er	nergy II App	alachia, 🏻	The state of the s		Lewis	Freemar	Vadis 7.5'
DBW42-3 NEW				Operate	or ID	County	District	Quadrangle
2) Operator's V	Well Numbe	r: Van Wie	1221 N-3	H	Well Pad	Name: Va	n Wie 1221	
3) Farm Name	/Surface Ow	ner: HG Energ	y II Appalacł	hia, LLC Pu	ublic Road	d Access: _(CR 11/3 aka	Straight Run Road
4) Elevation, co	urrent groun	d: 1256'	E1	levation n	ronosed r	nost-constru	ction: 1251.	7'
5) Well Type	(a) Gas	х	Oil			rground Sto		1
	Other				Onde	iground Sto.	rage	
	(b)If Gas	Shallow	Х	I	 Эеер			
		Horizontal	X		_			
6) Existing Pad	: Yes or No							
7) Proposed Ta	rget Format 7002' / 7049'	ion(s), Depth and 47' in thi	(s), Antici	ipated Thi	ckness an	nd Expected	Pressure(s):	
8) Proposed To			7,035'	репод	procedio	αι 4014 <i>π</i> .		
9) Formation at		4	Marcellus	2				
		_				-		
10) Proposed To			30,081'	-				
11) Proposed H	orizontal Le	g Length:	22,581'					
12) Approximat	e Fresh Wa	ter Strata Dep	oths:	150', 181	1', 826'			
13) Method to I	Determine F	resh Water D	epths: N	learest of	fset well	data. (47-0	17-02906, 24	180 4233)
14) Approximat			200	-				100, 1200,)
15) Approximat	e Coal Sean	Depths: 220)' - 225', 428'	'-438', 495'-50	01' (Surface	casing is being	extended to cover	r the coal in the DTI Field)
16) Approximat	e Depth to F	ossible Void	(coal mir	ne, karst, c	other): No	one		
17) Does Propos directly overlyin	sed well loca g or adjacer	ation contain it to an active	coal seam mine?	is Yes		N	o X	
(a) If Yes, prov	vide Mine Ir	ifo: Name:					Off	RECEIVED Fice of Oil and Gas
		Depth:						NOV 0 8 2024
		Seam:						
		Owner:					Envi	VV Departmen or ronmental Protection

API NO. 474 7 0 -4 1 0 5 7 6 2 OPERATOR WELL NO. Van Wie 1221 N-3H

Well Pad Name: Van Wie 1221

18)

CASING AND TUBING PROGRAM

TYPE		Norre					
	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1225'	1225'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2760'	2760'	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N/L-80 BTC	40	5750'		40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	30081'	30081'	20% Excess Tail, CTS
Tubing							
Liners							

Kenneth Greynold SN-Othe Kenneth Greynolds enail = Kenneth L.

Objection State of the Committee of the Commi

TYPE			Wall		Anticipated		G
	Size (in)	Wellbore Diameter (in)	Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500		<u> </u>		Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lead 40% excess, Tail 0% Excess Lea
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tail yield 1.94
Tubing							
Liners							

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Well Pad Name: Van Wie 1221

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7035'. Drill horizontal leg to estimated 22,581' lateral length, 30,081' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.95 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.53 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.

Freshwater/Coal - centralized every 3 joints to surface.

Intermediate 1 - Bow Spring on every joint, will also be running ACP for isolating storage zone

Intermediate 2 - Bow Spring on first 2 joints then every third joint to 100' from surface

Production - Vertical - Run 1 spiral contralizer every 5 injuris from the ton of the sures to evidence.

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig.

Fresh Water/Coal - *15.6 ppg PNE-1 + 3% bwoc CaCl40% ExcessYield=1.20 / CTS'

Intermediate 1 - ""Storage String "" CTS ""15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 Ib / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB And Fourn / D802 - 0.15% BWOB And Fourn / D803 - 0.03% BWOB Retarder / D47 - 0.02 gal / sack VBWOB And Fourn / D804 - 0.05% BWOB GadBu, OK / D013 - 0.3% BWOB GadBu, OK / D013

Intermediate 2 - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess, CTS"

Profession - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess, CTS"

Production - "Lead: 14.5 ppg POZ-PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% ExcessLead Yield=1.19Tail Yield=1.94CTS"

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.

Fresh Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement

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

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

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

*Note: Attach additional sheets as needed.

Page 3 of 3

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

15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)

B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB

Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess

15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)

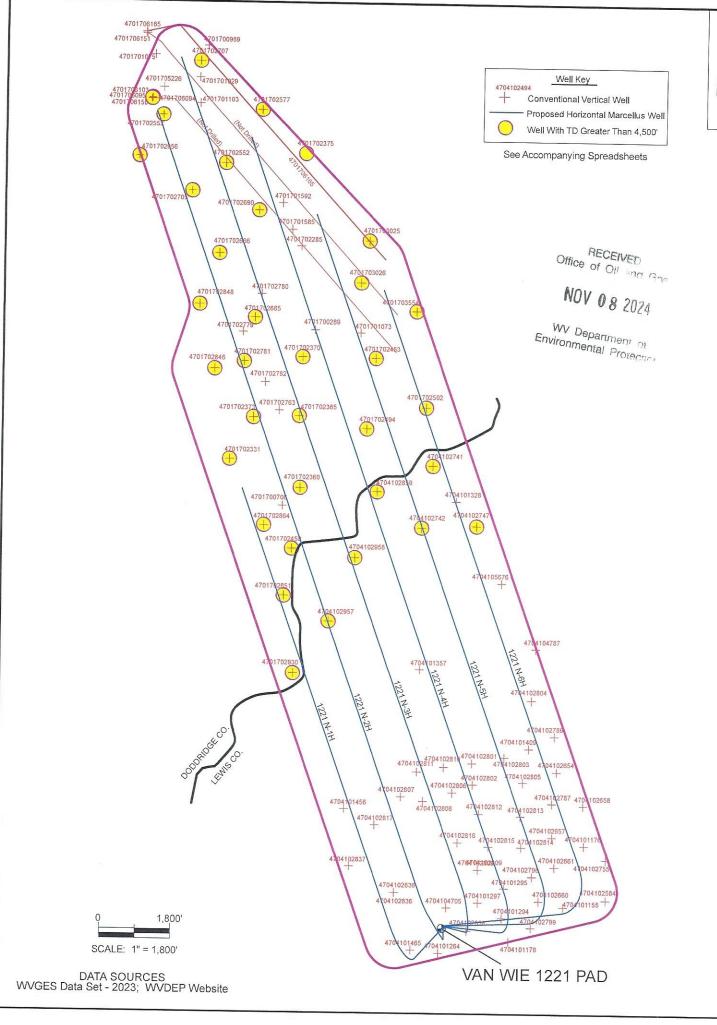
B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam /

D801 – 0.03 gal / sack Retarder - 0% Excess

1221 N-3H Marcellus Shale Horizontal Lewis County, WV



F	gar.	, odok rvetaru	der - 0% Excess)							Lewis C	ounty, WV		
H	Cwarr	- d El	- 4.*					1221	N-3H SF	iL .		14197346.51N 17344	196.23E	
ŀ	Grou	nd Eleva	ation		1251.			1221	N-3H LI	P	14197937.95N 1735048.73E			
H		Azm			340.47	74°	12		1221 N-3H BHL		14219223.18N 1727542.09E			
ŀ	WELL	BORE DIAG	GRAM	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
												The second secon		
	X		×	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness	
	×		×	26"	20" 94# J-55	Coal	740	746	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl	Centralized every 3	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" wal	
	X		x		94# J-55	Fresh Water Protection	0	1225	AIR	40% Excess Yield=1.20 / CTS	joints to surface	of one hole volume with Fresh Water prior to pumping cement.	thickness Burst=2110 psi	
						Little Lime	2167	2187						
					13-3/8" 68#	Big Lime	2216	2265	AIR / KCL	See above (LEFT) for - Storage String Cemen	joint *will also be running ACP for isolating	Once casing is at setting depth, Circulate and		
	*		x	17.5"	J-55 BTC	Injun / Gantz (Storage)	2265 / 2597	2361 / 2647	Salt	Blend to Meet DTI		condition at TD. Circulate a	Intermediate casing = 0.480 wall thickness	
-	10x 0 8 X		Environmental Department of Americal American Am			Intermediate 1	0	2760	Polymer	Requirements for Gas Storage Field Isolation		minimum of one hole volume prior to pumping	Burst=3450 psi	
4	EX S	o to				Thirty Foot	2789	2799				cement.		
1	ें ५०	hen				Gordon	2837	2915	1					
40	0	art.	X.			5th Sand	3066	3102	1	Lead: 15.4 ppg PNE-1 +			Intermediate assistant 0.005	
5	8	en le			9-5/8" 40#	Bayard	3161	3174	AIR / KCL -	2.5% bwoc CaCl	Bow Spring on first 2	Once casing is at setting depth, Circulate and		
	*	7		12.25"	N / L-80 BTC	Speechley	3634	3666	Salt Ppg	40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc	joints then every third joint to 100' form	condition mud at TD.	Intermediate casing = 0.395' wall thickness	
		Z 5					Benson	5038	5072	Polymer	CaCI	surface	Circulate a minimum of one hole volume prior to	Burst=5750 psi
		T.						Alexander	5324	5444		zero% Excess. CTS		pumping cement.
						Intermediate 2	0	TVD: 5675' MD: 5750' Inc: 10 dea.						
	^	*									Run 1 spiral centralizer			
				8.75"					AIR / 9.0ppg		every 5 joints from the			
					-				soвм	<u>Lead</u> : 14.5 ppg	top of the curve to surface.			
					-	Dhinastrast				POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	Surface.			
					-	Rhinestreet Cashaqua	6303	6591		EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170		Once on bottom/TD with		
	X	×			5-1/2"	Middlesex	6591	6736		Tail: 14.8 ppg PNE-1 +		casing, circulate at max allowable pump rate for at	Production casing = 0.415"	
				8.5" Curve	23# P-110 HP	West River	6736 6815	6815	11.5ppg-	0.35% bwoc R3 + 0.75 gal/sk FP13L + 50%		least 2x bottoms up, or until	wall thickness Burst=16240 psi	
					TXP / W461	Burkett	6884	6884 6925	12.5ppg SOBM	bwoc ASCA1 + 0.5%	Run 1 spiral centralizer	returns and pump pressures indicate the hole is clean.	Note:Actual centralizer	
						Tully Limestone	6925	6952		bwoc MPA170 20% Excess	every 3 joints from the	Circulate a minimum of one hole volume prior to	schedules may be changed due to hole conditions	
					Hamilton	6952	7002		Lead Yield=1.19	1st 5.5" long joint to the top of the curve.	pumping cement.	versione our process and the first country of the c		
						Marcellus	7002	7049		Tail Yield=1.94 CTS				
		8	8.5" Lateral		TMD / TVD (Production)	30081	7035	11.5ppg- 12.5ppg						
	×	ΙXL				Onondaga	7049		SOBM					
			X		X	X			×	X	×	χ		
			LP @ 7035' T ME				.5" Hole - Cemented -1/2" 23# P-110 HP	Long String				1' ft Lateral	X TD @ +/-7035' TVD	
		X	Х		Χ				data bata bata ana ara	X			+/-30081' MD	



Area of Review for:

VAN WIE 1221 NORTH UNIT

Proposed 1221 N-1H Proposed 1221 N-2H Proposed 1221 N-3H Proposed 1221 N-4H Proposed 1221 N-5H Proposed 1221 N-6H

Cove District, Doddridge County, W.Va. Freeman's Creek District, Lewis County, W.Va. 12/06/2024 HG ENERGY, II APPALACHIA, LLC

5260 DuPont Road, Parkersburg, WV 26101

10/18/2024

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

VAN WIE 1221 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H, & N-6H

CT		COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD			
1	4701700289	Doddridge	E B Severn	Carr, A. T., and Collins, John, Drilling Co.	Big Injun (Price&eq)	Dry w/ Gas Show	COLUMN TO SERVICE DE LA COLUMN TO SERVICE DESTRUCCION TO SERVICE DE LA COLUMN	STATUS	LATITUDE	LONGITUDE
2	4701700706	Doddridge	Alphonsus Brown	UNKOWN	Big Injun (undiff)	Gas w/ Oil Show	2083	PLUGGED	39.136276	-80.680367
3	4701701073	Doddridge	Henry & Ella Droppleman	Ross & Wharton Gas Company, Inc.	Up Devonian			ABANDONED	39.124089	-80.683170
4	4701701585	Doddridge	Stella Severn	Berry Energy, Inc.	Big Injun (Grnbr)	Gas Oil and Gas	2895	ABANDONED	39.136098	-80.676307
5	4701701592	Doddridge	Stella Severn	Berry Energy, Inc.	Big Injun (Grnbr)		2268	ABANDONED	39.143240	-80.682617
6	4701702285	Doddridge	Stella Severin	Rockwell Resources, LLC	Big Injun (Grnbr)	Oil and Gas	2286	ABANDONED	39.145011	-80.683519
7	4701702331	Doddridge	G G Schmidt et al	Beta Helix Energy, LLC	Alexander	Dry Gas	2197	PLUGGED	39.141922	-80.681834
8	4701702360	Doddridge	Fonce Brown	Beta Helix Energy, LLC	Alexander	Gas	5488	ACTIVE	39.127302	-80.687917
9	4701702365	Doddridge	Fonce Brown	Beta Helix Energy, LLC	Alexander	Gas	5183	ACTIVE	39.125345	-80.681591
10	4701702370	Doddridge	H & E Droppleman	Beta Helix Energy, LLC	Alexander		5198	ACTIVE	39.130315	-80.681747
11	4701702373	Doddridge	Fonce Brown	Beta Helix Energy, LLC	Elk	Gas	5226	ACTIVE	39.134395	-80.681471
12	4701702450	Doddridge	Fonce Brown	Beta Helix Energy, LLC	Brallier	Gas	5460	ACTIVE	39.130216	-80.685815
13	4701702453	Doddridge	H & E Droppleman	Beta Helix Energy, LLC		Gas	5426	ACTIVE	39.121106	-80.682308
14	4701702494	Doddridge	Joseph Brown	Beta Helix Energy, LLC	Alexander Elk	Gas	5496	ACTIVE	39.134331	-80.674927
15	4701702502	Doddridge	Joseph Brown	Beta Helix Energy, LLC	Greenland Gap Fm	Gas	5333	ACTIVE	39.129444	-80.675711
16	4701702553	Doddridge	G Determan	Greylock Conventional, LLC	Greenland Gap Fm	Gas	5040	ACTIVE	39.130928	-80.670402
17	4701702665	Doddridge	M Toia	Geo Energy, LLC		Gas	5728	ACTIVE	39.151110	-80.694165
18	4701702666	Doddridge	J Glenn	Geo Energy, LLC	Alexander	Gas	5461	ACTIVE	39.137126	-80.685750
19	4701702690	Doddridge	М Тоіа	Geo Energy, LLC	Alexander	Gas	5634	ACTIVE	39.141560	-80.689005
20	4701702705	Doddridge	Kenneth Capp	Geo Energy, LLC	Alexander	Gas	5632	ACTIVE	39.145292	-80.686788
21	4701702763	Doddridge	F Brown	Beta Helix Energy, LLC	Alexander	Gas	5460	ABANDONED	39.145858	-80.691493
22	4701702779	Doddridge	M Tota	Berry Energy, Inc.	Big Injun (undiff)	Gas w/ Oil Show	2223	ACTIVE	39.130689	-80.683546
23	4701702780	Doddridge	M Toia	Devon Energy Corporation	Squaw	Gas	2420	ABANDONED	39.136127	-80.686817
24	4701702781	Doddridge	H & E Droppleman	Beta Helix Energy, LLC	Big Injun (undiff)	Gas	2480	PLUGGED	39.138767	-80.685171
25	4701702782	Doddridge	Roy Church	Rockwell Resources, LLC	Alexander	Gas	5548	ACTIVE	39.134076	-80.686688
26	4701702846	Doddridge	W S Wysong	Beta Helix Energy, LLC	Big Injun (undiff)	Dry	2356	PLUGGED	39.132651	-80.684795
27	4701702848	Doddridge	W S Wysong	Beta Helix Energy, LLC	Alexander	Gas	5454	ACTIVE	39.133551	-80.689327
28	4701702851	Doddridge	H Schmidt	Beta Helix Energy, LLC	Alexander	Gas	5500	ACTIVE	39.138240	-80.690078
29	4701702864	Doddridge	J A Shaver	Beta Helix Energy, LLC	Alexander	Gas	5465	ACTIVE	39.117851	-80.682994
30	4701702930	Doddridge	Glen Rastle	Beta Helix Energy, LLC	Alexander	Gas	5220	ACTIVE	39.122745	-80.684814
31	4701702956	Doddridge	Kenneth Capp	Rural Resources, LLC	Alexander	Gas	5400	ACTIVE	39.112484	-80.682112
32	4701703025	Doddridge		Beta Helix Energy, LLC	Brallier	Gas	5495	ABANDONED	39.148232	-80.696245
33	4701703026	Doddridge		Beta Helix Energy, LLC	Elk	Oil and Gas	5579	ACTIVE	39.142490	-80.675598
			1 1 1 1 1	Deta Helix Ellergy, LLC	Alexander	Gas	5484	ACTIVE	39.139576	-80.676307

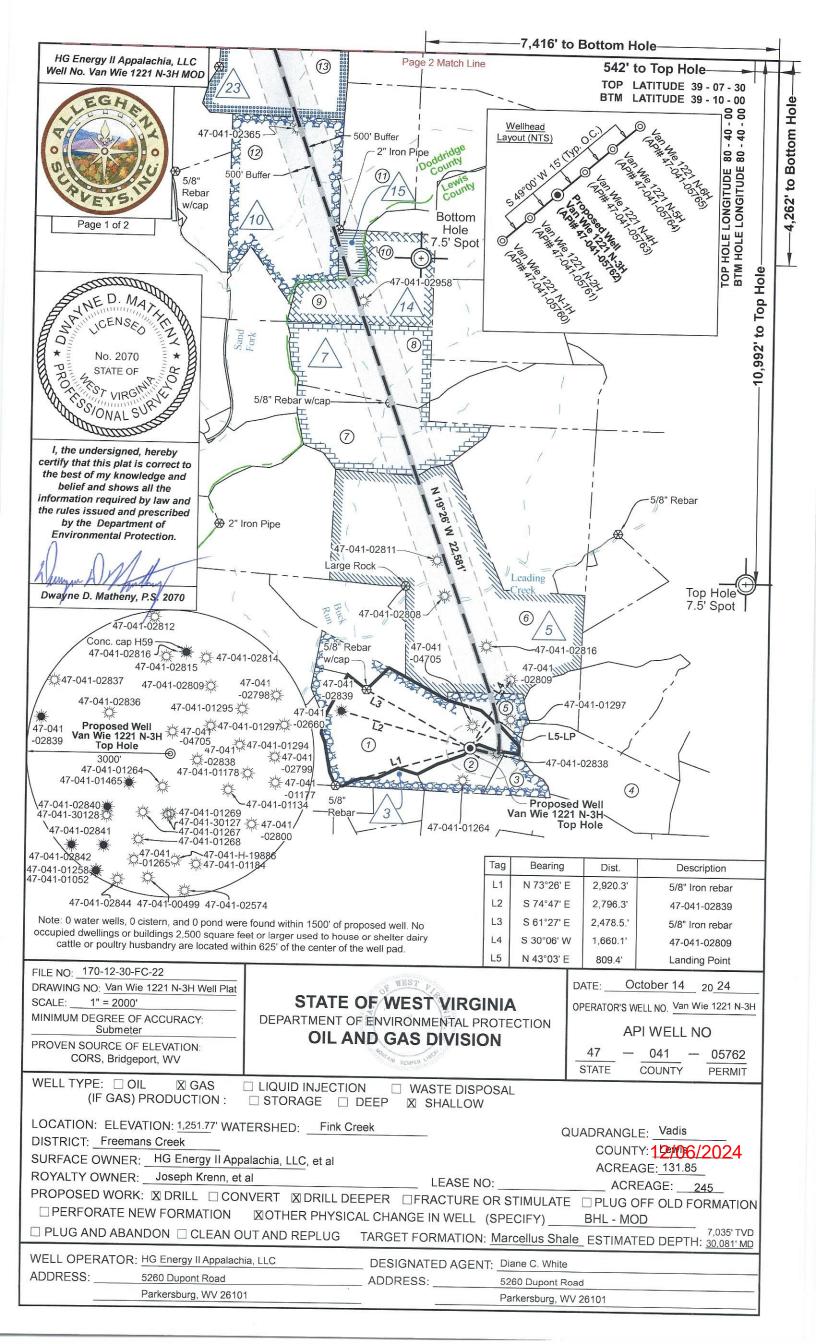
MOV 08 2024	4701703554									
340	4701703554	Doddridge	Barbara A Doyle	Eastern Gas Transmission & Storage, Inc.						
35	4701706094	Doddridge	John F Erwin	Antero Resources Corporation	Alexander	Gas	5470	ACTIVE	39.137606	-80.671330
36	4701706095	Doddridge	John F Erwin	Antero Resources Corporation	Marcellus Fm	Gas	7223	ACTIVE	39.152247	-80.695181
37	4701706103	Doddridge	John F Erwin	Antero Resources Corporation	Marcellus Fm	Gas	7248	ACTIVE	39.152273	-80.695164
38	4701706150	Doddridge	John F Erwin	Antero Resources Corporation	Marcellus Fm	Gas	7250	ACTIVE	39.152296	-80.695148
39	4704101155	Lewis	U F Starcher	Eastern Gas Transmission & Storage, Inc.	Marcellus Fm	Permit issued	727	NEVER DRILLED	39.152233	-80.695208
40	4704101176	Lewis	Maxwell Hr	UNKOWN	Gantz	Storage	2335	PLUGGED	39.096274	-80.657797
41	4704101178	Lewis	J C Starcher	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2457	PLUGGED	39.100547	-80.656014
42	4704101264	Lewis	J Krenn	UNKOWN	Gantz	Storage	2524	ACTIVE	39.093849	-80.662678
43	4704101294	Lewis	J C Starcher	UNKOWN	Gantz	Storage	2490	PLUGGED	39.093040	-80.668907
44	4704101295	Lewis	U F Starcher	UNKOWN	Gantz	Storage	2530	PLUGGED	39.095481	-80.663291
45	4704101297	Lewis	J Krenn	UNKOWN	Gantz	Storage	2538	PLUGGED	39.097542	-80.663115
46	4704101328	Lewis	X Frye	Foster Mining Co.	Gantz	Storage	2577	PLUGGED	39.096546	-80.665425
47	4704101357	Lewis	R F Ruppert	Eastern Gas Transmission & Storage, Inc.	Gantz	Oil	2390	ABANDONED	39.124405	-80.667637
48	4704101409	Lewis	W Walsh	UNKOWN	Gantz	Storage	2450	ACTIVE	39.112751	-80.670788
49	4704101456	Lewis	John Hushion	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2380	PLUGGED	39.107269	-80.660987
50	4704101465	Lewis	J Krenn	UNKOWN	Gantz	Oil	2243	PLUGGED	39.103069	-80.677445
51	4704102584	Lewis	Wallace Starcher	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2900	PLUGGED	39.093249	-80.671376
52	4704102654	Lewis	Conroy Dennis	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2488	ACTIVE	39.096737	-80.654029
53	4704102657	Lewis	F Maxwell Heirs		UNKNOWN	Storage	-	ACTIVE	39.105648	-80.658501
54	4704102658	Lewis	F Maxwell Heirs	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.101125	-80.658876
55	4704102660	Lewis	U F Starcher	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.103336	-80.656089
56	4704102661	Lewis	U F Starcher	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	_	ACTIVE	39.096665	-80.659994
57	4704102741	Lewis	Xavier Frye	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage		ACTIVE	39.099024	-80.658615
58	4704102742	Lewis	Xavier Frye	Deran Resources, Inc.	Brallier	Gas	5446	ACTIVE	39.126888	-80.669765
59	4704102747	Lewis	Xavier Frye	Beta Helix Energy, LLC	Brallier	Gas	5332	ACTIVE	39.122596	-80.670715
60	4704102755	Lewis	Judith A Rioch	Beta Helix Energy, LLC	Benson	Gas	5214	ACTIVE	39.122717	-80.665804
61	4704102787	Lewis	Dennis Conroy	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2536	ACTIVE	39.099566	-80.654040
62	4704102789	Lewis	Dennis Conroy	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2434	PLUGGED	39.103481	-80.658881
63	4704102798	Lewis		Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	2339	PLUGGED	39.108122	-80.658697
64	4704102799	Lewis	U F Starcher J C Starcher	Eastern Gas Transmission & Storage, Inc.	Gantz	Storage	2449	PLUGGED	39.098355	-80.660626
65	4704102801	Lewis		Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	2658	ACTIVE	39.094817	-80.660693
66	4704102802	Lewis	Bernard McCutchen	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	PLUGGED	39.106245	-80.666041
67	4704102803	Lewis	Bernard McCutchen William Walsh	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	PLUGGED	39.104786	-80.665954
68	4704102804	Lewis	William Walsh	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.106672	-80.663163
69	4704102805	Lewis		Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Observation	-	ACTIVE	39.110612	-80.660774
70	4704102806		William Walsh	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	2318	PLUGGED	39.104931	-80.661487
		EC4413	Gary L & Virginia C Brown	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	PLUGGED	39.104214	-80.667783

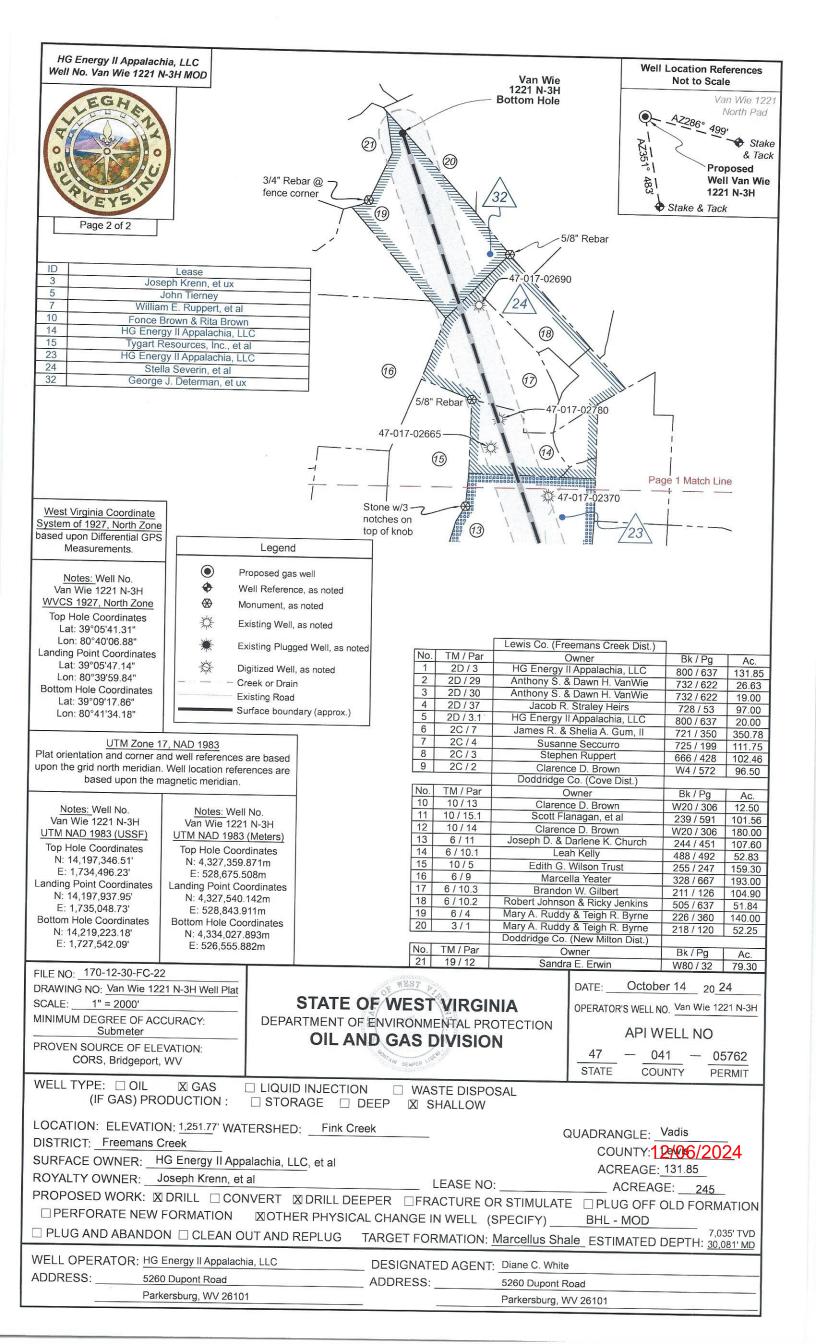
\$7,0\mathbb{1}02807 Lewis John Tierney Eastern Gas Transmission & Storage, Inc. UNKNOWN Storage **ACTIVE** 4704102808 39.103912 -80.672380 Lewis Gary L & Virginia C Brown Eastern Gas Transmission & Storage, Inc. UNKNOWN not available PLUGGED £4704102809 39.103626 -80.670396 Lewis John Tierney Eastern Gas Transmission & Storage, Inc. UNKNOWN Observation ACTIVE 39.098834 4704102810 -80.665447 Lewis John Tierney Eastern Gas Transmission & Storage, Inc. UNKNOWN Storage **ACTIVE** 4704102811 39.105982 -80.668575 Lewis Gary L & Virginia C Brown Eastern Gas Transmission & Storage, Inc. UNKNOWN not available **PLUGGED** 39.105656 76 -80.670955 4704102812 Lewis Gary L & Virginia C Brown Eastern Gas Transmission & Storage, Inc. UNKNOWN not available PLUGGED 77 39.102756 -80.665395 4704102813 Lewis Gary L & Virginia C Brown Eastern Gas Transmission & Storage, Inc. UNKNOWN not available 2352 **PLUGGED** 39.102611 78 -80.661672 4704102814 Lewis John Tierney Eastern Gas Transmission & Storage, Inc. UNKNOWN Observation **ACTIVE** 79 4704102815 39.100444 -80.661590 Lewis John Tierney Eastern Gas Transmission & Storage, Inc. UNKNOWN not available 2430 **PLUGGED** 80 39.100486 4704102816 -80.664527 Lewis John Tierney Eastern Gas Transmission & Storage, Inc. Hampshire Grp Storage 2595 **ACTIVE** 81 4704102817 39.100750 -80.667282 Lewis John M Keely et al Eastern Gas Transmission & Storage, Inc. UNKNOWN Storage **ACTIVE** 82 39.101970 -80.674695 4704102836 Lewis Joseph Krenn Eastern Gas Transmission & Storage, Inc. UNKNOWN Observation **ACTIVE** 39.097234 83 4704102837 -80.672886 Lewis Joseph Krenn Eastern Gas Transmission & Storage, Inc. UNKNOWN Storage **ACTIVE** 84 39.099071 -80.676947 4704102838 Lewis Joseph Krenn Eastern Gas Transmission & Storage, Inc. UNKNOWN Observation ACTIVE 85 4704102859 39.094584 -80.666399 Lewis Joseph Brown Beta Helix Energy, LLC Alexander Gas 5465 **ACTIVE** 39.125074 86 4704102957 -80.674728 Lewis J Ferrell Beta Helix Energy, LLC Alexander Gas 5421 ACTIVE 39.116095 87 4704102958 -80.678971 Lewis F & R Brown Beta Helix Energy, LLC Benson Gas w/ Oil Show 5595 **ACTIVE** 88 4704104705 39.120490 -80.676662 Lewis Joseph Krenn Eastern Gas Transmission & Storage, Inc. Gantz Oil and Gas 2546 ACTIVE 89 4704104787 39.096192 -80.668233 Lewis Frank A Altomare Jr Eastern Gas Transmission & Storage, Inc. UNKNOWN not available **PLUGGED** 90 39.114199 4704105676 -80.660444 Lewis Downey Eastern Gas Transmission & Storage, Inc. **NEVER DRILLED** 39.118746 -80.663516 WELLS ADDED 1/29/2024 91 4701700989 Doddridge Celia Schulte Southern Triangle Oil Co. Big Injun (Grnbr) Oil and Gas 2420 **PLUGGED** 39.155903 92 4701701029 -80.690217 Doddridge Celia Schultz Southern Triangle Oil Co. Big Injun (Grnbr) 2495 Gas w/ Oil Show **PLUGGED** 93 39.153717 -80.690927 4701701075 Doddridge F M Hinter & A Hunter Devonian Gas & Oil Price Fm & equivs Oil w/ Gas Show 2454 **PLUGGED** 94 39.155273 -80.694929 4701701103 Doddridge George Determan Petroleum Promotions Big Injun (Grnbr) Oil and Gas 2288 **PLUGGED** 39.151934 95 4701702375 -80.690851 Doddridge Thomas B Smith Geo Energy, LLC Brallier 5425 Gas **ABANDONED** 39.148482 96 -80.681388 4701702552 Doddridge G Determan Greylock Conventional, LLC Greenland Gap Fm 5732 Gas **ACTIVE** 39.147523 97 4701702577 -80.688533 Doddridge Thomas Smith Beta Helix Energy, LLC Greenland Gap Fm Gas 5401 **ACTIVE** 39.151528 98 -80.685310 4701702707 Doddridge Kenneth Capp Rural Resourcces, LLC Alexander 5644 Gas **ABANDONED** 99 39.15486 -80.690871 4701705226 Doddridge John F Erwin Berry Energy, Inc. Greenland Gap Fm Gas 3410 **ACTIVE** 39.153122 100 4701706150 -80.694241 Doddridge John F Erwin Antero Resources Appalachian Corp. Marcellus Fm NA NA **NEVER DRILLED** 39.152233 101 -80.695208 4701706151 Doddridge John F Erwin Antero Resources Appalachian Corp. Marcellus Fm NA NA **NEVER DRILLED** 39.156687 102 4701706165 -80.695704 Doddridge John F Erwin Antero Resources Appalachian Corp. Marcellus Fm Gas 7246 **ACTIVE** 39.156790 -80.695742 SOURCE: WVGES DATASET (2020) and WVDEP WEBSITE AND FIELD SURVEYS

YELLOW DENOTES WELL WITH TVD > 4,500'

GREEN DENOTES SURVEYED WELLS

UPDATED 10/18/2024





Operator's Well No. Van Wie 1221 N-3H

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 Ges

NOV 08 2024

WV Department of Environmental Protection

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

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

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

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army 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

Agent

Page 1 of ____

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470410576

The of on and of the project

HG Energy II Appalachia, LLC Van Wie 1221 N-3H Lease Chain

)	LEGACY LEASE	My Chue					T	
1221N Tract	NUMBER	AN DE TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
1080				JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8		
Peter Section 1				WILLIAM A. LOUWTHER	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	ASSIGNMENT	42	10.
in the second				SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156	
	1			HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	166	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	294	
i e				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	425	12
		03-002D-0003-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
		03-002D-0003-0001		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC		9	628
3	FK054825	03-002D-0003-0003		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	MEMORANDUM OF FARMOUT AGREEMENT	672	154
	FK079440 FEE	03-002D-0028-0000	Q100903000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	LIMITED PARTIAL ASSIGNMENT (50%)	684	
		03-002D-0029-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOT LESS THAN 1/8	692	570
		03-002D-0030-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717	
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	ASSIGNMENT	722	170
					TOTAL PROPERTY OF THE PROPERTY	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF		1
k I					THE ENERGY II AFFADACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF		
	l l			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
				JOHN TIERNEY	SOUTH PENN OIL COMPANY	MINERAL DEED	740	746
				SOUTH PENN OIL COMPANY	SOUTH PENN NATURAL GAS CO	NOT LESS THAN 1/8	39	29
		1		SOUTH PENN NATURAL GAS CO	HOPE NATURAL GAS COMPANY	ASSIGNMENT	156	570
		I I		HOPE NATURAL GAS COMPANY		ASSIGNMENT	166	494
		1		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSPORTED	CONFIRMATORY DEED	294	89
		1		CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
		1	Ī	CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
3	Management (1990)	1		DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
5	FK082810	03-002C-0007-0000	1	CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
	FK056828	03-0020-0007-0000	O100341000 F	DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
b:		1		CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
			-	NOBLE ENERGY, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				DOMINON TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
ı		1		The state of the s	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
	1	1	lc lc	OMINION ENERGY TRANSMISSION, INC.	U.S. EMED COMMANDE	SECOND AMENDMENT TO MEMORANDUM OF		
			F	The state of the s	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
	1		ln	OMINION ENERGY TRANSMISSION, INC.	HG FMFR OWN	THIRD AMENDMENT TO MEMORANDUM OF		133
	P			OMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
	-			and the manifestory, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220

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4704105/62	7	PK064782 PK079376 FEE	MOV 0.8 200 03-002C-0003-0000 0000-0000-0000 000-0000-0000	Q100598000	WILLIAM E. RUPPERT, WIDOWER; ROY F. RUPPERT, WIDOWER; AGNE RILEY AND MARTIN J. RILEY, HER HUSBAND; CHARLES F. RUPPERT AN W. E. RUPPERT, ATTORNEY IN FACT FOR CLARA RUPPERT HUNKLER; E. A. MAYBURY, HENRY MAYBURY, FRED MAYBURY, GILBERT MAYBURY NORA KESSEN, NORA MAYBURY, GERTRUDE MAYBURY, CATHERINE MAYBURY, MARCELLA MAYBURY, BEN KESSEN, JOHN RUPPERT, CATHERINE RUPPERT, JOE RUPPERT, MARIAH RUPPERT, ADELINE ROUGH, LEE ROUGH, CLARA HUNKLER, EDWARD HUNKLER, LEWIS RUPPERT, NORA RUPPERT; NORA MAYBURY, GUARDIAN FOR HERMAN J. MAYBURY; ANDREW B. MAYBURY, MARCELLA C. MAYBURY, JOSEPH A. MAYBURY, EDWARD C. MAYBURY AND MAY E. MAYBURY; MAYBELLE RUPPERT, SINGLE; MAYBELLE RUPPERT, GUARDIAN FOR MICHAEL RUPPERT; C. O, DENNISON AND DAISY I. DENNISON, HIS WIFE	HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8 CONFIRMATORY DEED	223 294	178 89
			p/o 03-002C-0007-00001		CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
					CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
- 1		1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS	
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	MEMORANDUM OF FARMOUT AGREEMENT	672	154
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
					DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	NOT LESS THAN 1/8 PARTIAL ASSIGNMENT (32%)	692	570
					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (32%)	712	848
		1			NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717	1
					DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	722	170
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	WVSOS 723	499
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF		455
1					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT ASSIGNMENT (68%)	734	558
					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	736	220
	14	FK079362 FEE	p/o 03-002C-0002-0000	FK079362 FEE	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC		740	746
		HGII02609;			Tygart Resources, Inc., a West Virginia Corporation	TO ENERGY IT ALT ADACTIVA, ELC	MINERAL DEED	740	746
	15	HGII02920	02-0010-0013-0000	HGII02609; HGII02920	Thomas E Blandford, III, President The Board of Trustees of Davis & Elkins College	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	508	440
					Robert Hardman, Vice President for Finance and Administration	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	512	224
	- 1				FONCE BROWN AND RITA BROWN, BROTHER AND SISTER, BOTH SINGLE				
	1					CAPITAL PETROLEUM	NOT LESS THAN 1/8	100	462
					GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY	ROCKWELL PETROLEUM COMPANY	NOT LESS THAN 1/8	107	672
	1		76		FOSSIL PETROLEUM COMPANY	FOSSIL PETROLEUM COMPANY	ASSIGNMENT	100	672
	- 1				GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY	GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY	ASSIGNMENT	101	134
	1		£		CTOMESTREET	STONESTREET LANDS COMPANY	ASSIGNMENT	101	131
			22	i i	ABARTA OIL AND GAS CO INC	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	107	717
						ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	261	463
		1			CPC ENERGY SBS (B) LP, SUCCESSOR PARTNERSHIP TO GLENVILLE 1979	ANTERO PESOLIBOES APPALACITIANI COPPODATION	*		
		1			ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	ASSIGNMENT	275	83
	- 1	[N .		CARCON RETROLEMA	CPC 78-F, LTD	PARTIAL ASSIGNMENT	108	349
	- 1	1			CARSON PETROLEUM CORPORATION	CPC 78-F, LTD	PARTIAL ASSIGNMENT	109	18
1	ī	I.			CARCON DETROI FUNA CORRORATION	HS I-A, LTD	PARTIAL ASSIGNMENT	109	20
							PARTIAL ASSIGNMENT	109	143

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		\$ S		ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	DARTIAL ACCIONATION		
		{ ~ 5 5		ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	PARTIAL ASSIGNMENT	110	
		2024		CARSON PETROLEUM CORPORATION	ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT	112	
		of Oil and Care V 08 2024		CARSON PETROLEUM CORPORATION	HS II-B, LTD	PARTIAL ASSIGNMENT	112	
				CARSON PETROLEUM CORPORATION	ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT	112	
		la contra		CARSON PETROLEUM CORPORATION	THOMAS E. EVANS	PARTIAL ASSIGNMENT	112	
	1	RECENTIVE OF ONLINE OF ONLINE	1	CARSON PETROLEUM CORPORATION	CPC 79-G LTD	PARTIAL ASSIGNMENT	112	
				CARSON PETROLEUM CORPORATION	CPC 79-H LTD	PARTIAL ASSIGNMENT	112	
	1	NO WV I		CARSON PETROLEUM CORPORATION	ROYAL W. CARSON, III	PARTIAL ASSIGNMENT	112	1
	1	Office NV wv Environ		CARSON PETROLEUM CORPORATION	ROYAL W. CARSON, III	PARTIAL ASSIGNMENT	112	reno-lak. Ribrospin
	1			CARSON PETROLEUM CORPORATION	ROYAL W. CARSON, III	PARTIAL ASSIGNMENT	112	
	l	1		ROCKWELL PETROLEUM COMPANY	CARSON PETROLEUM CORPORATION	PARTIAL ASSIGNMENT	112	
				ROCKWELL PETROLEUM COMPANY	EMILY E. CARSON	PARTIAL ASSIGNMENT	112	
				ROCKWELL PETROLEUM COMPANY		PARTIAL ASSIGNMENT	114	
				ROCKWELL PETROLEUM COMPANY, ROBERT R. JONES, AND MARK R.	ROYAL W. CARSON, JR.	PARTIAL ASSIGNMENT	114	
				WORL	CARCON RETROLEUR ASSESSED			
				CARSON PETROLEUM CORPORATION; ROYAL W. CARSON, III; MACK R.	CARSON PETROLEUM CORPORATION	ASSIGNMENT	123	
	FK090212	02-0010-0014-0000	Q093121001	WORL; ROYAL W. CARSON, JR.; AND EMILY CARSON	I and the second			
	TROSOZIZ	02-0010-0014-0000	Q093121002	THOMAS E. EVANS, AN INDIVIDUAL	DEVON ENERGY CORPORATION (NEVADA)	ASSIGNMENT	126	
				CARSON PETROLEUM CORPORATION	DEVON ENERGY CORPORATION	ASSIGNMENT	127	
		1		CARSON PETROLEUM CORPORATION	GLENVILLE 1979	PARTIAL ASSIGNMENT	128	
		1		CARSON PETROLEUM CORPORATION	GLENVILLE 1979	PARTIAL ASSIGNMENT	128	
				CANDID COLOR SYSTEMS INC	CANDID COLOR SYSTEMS INC	PARTIAL ASSIGNMENT	138	
					CANDID OIL & GAS INC	ASSIGNMENT	139	
				DEVON ENERGY CORPORATION AND DEVON RESOURCE INVESTORS, A LIMITED PARTNERSHIP			133	
				HS I-A	DEVON INVESTORS LTD	MERGER/NAME CHANGE	wvsos	
					HS CONSOLIDATED GROWTH PARTNERSHIP	PARTIAL ASSIGNMENT	139	
				HS CONSOLIDATED GROWTH PARTNERSHIP	HS RESOURCES, INC	ASSIGNMENT	153	
				HS CONSOLIDATED GROWTH PARTNERSHIP	HS RESOURCES, INC	PARTIAL ASSIGNMENT	153	
				HS CONSOLIDATED ASSET PARTNERSHIP	HS RESOURCES, INC	PARTIAL ASSIGNMENT		
				DEVON INVESTORS LTD	DEVON ENERGY CORPORATION (DELAWARE)	ASSIGNMENT	153	
				HS RESOURCES, HS CONSOLIDATED ASSET PARTNERSHIP, HS			156	
				CONSOLIDATED GROWTH PARTNERSHIP, AND HG/SHB JOINT				
				VENTURE	DEVON ENERGY CORPORATION	ASSIGNMENT		
					ABARTA OIL AND GAS COMPANY INC (90%)	ASSIGNMENT	158	
				DEVON ENERGY CORPORATION (NEVADA)	ALLEGHENY INTERESTS INC (10%)	ASSIGNMENT		
				ABARTA OIL AND GAS CO INC	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	178	
				GLENVILLE 1979	CPC ENERGY SBS (B) LP	MERGER/NAME CHANGE	261	
- 1		-				MERGER/NAIVIE CHANGE	275	
- 1		1		CPC ENERGY SBS (B) LP, SUCCESSOR PARTNERSHIP TO GLENVILLE 1979	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT		
- 1		1		ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	ASSIGNMENT	275	
		1		ANTERO RESOURCES CORPORATION	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	MERGER/NAME CHANGE	WVSOS	
		1		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL TERM ASSIGNMENT	411	
		1		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	377	
- 1				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	388	
- 1				CD LEASE HOLDINGS & DODERT B LOVIES !!	HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	508	
					HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	520	
		1			HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	AB 8	- 14503-4552-1111
	1			DATSV HAMMEDT		ASSIGNMENT	511	
				SHAMROCK OIL AND GAS INC	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA. LLC	ASSIGNMENT	511	
				ANTERO RESOURCES CORPORATION	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	Drilling & Permission to Permit Agreement	817	
- 1		ACCEPACION OF THE PROPERTY OF		H I DDODDIEMAN		PARTIAL ASSIGNMENT	543	
- 1	1	1		CONCOURATER CASCALLA	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	93	
- 1	- 1			CONSOLIDATED GAS TRANSMISSION CORRESPONDENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
- 1				CNG TRANSMISSION CORRORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	*******	

0.51		E	î		. —				
4 477		1		1	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	1	1
0					CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	672	
Part of the last o		1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY INC	NOT LESS THAN 1/8	684	
	23	FK108088	p/o 02-0006-0011-0000	F144.00000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	692	
LS		TKIOOOO	p/0 02-0006-0011-0000	FK108088	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	712	
C					NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717	
					DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	722	170
the same							SECOND AMENDMENT TO MEMORANDUM OF	WVSOS	
TL ecc					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	400
41					DOMINION FUED ON THE		THIRD AMENDMENT TO MEMORANDUM OF	/23	499
		14	å.	LO CO	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
Police			(BED) 37175 G	O'ectic	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	
8 0					DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MINERAL DEED	740	
Die Kingson			RECEIVER of Oil The	ब्रुं व	CTELL A CENTENNA A ANN A			740	740
					STELLA SEVERIN, A WIDOW; AND ARDEN J. ASHCRAFT, A SINGLE MAN	DONALD S. GARVIN	NOT LESS THAN 1/8	93	244
			F. O. C.	i i	DONALD S. GARVIN	JOHN R. WARREN	ASSIGNMENT	93	344 723
- 1			Office o	Environmental				931	123
						CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR.;			l .
- 1						DEVONSHIRE INVESTMENT CO., H. L. HODGES, J. D. HODGES,			1
- 1						STAN LITTLETON, COLONEL H. NELSON, PETER G. PIERCE,			1
					IOUN B MARDEN	VIRGINIA PIERCE, CHARLES PURCELL, JR.; H. E. RAINBOLT,			1
					JOHN R. WARREN	HARRY SCHNITTGER, H. SETH WOOD, TOM G. YARBRO	ASSIGNMENT	94	501
					TOM G. YARBRO	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ASSIGNMENT	99	501 95
					CHARLES PURCELL, JR	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ASSIGNMENT	99	287
					STAN LITTLETON	N.R. LITTLETON	ASSIGNMENT	100	248
1					H. L. HODGES	JOHN R. WARREN	ASSIGNMENT	104	253
					CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR;			104	233
					DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON,				
					COLONEL H. NELSON, PETER G. PIERCE, H. E. RAINBOLT, HARRY			363	
			02-0006-0010-0000 02-0006-0010-0001		SCHNITTGER, ROMAYNE WARREN, H. SETH WOOD CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR;	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ASSIGNMENT	104	265
					DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON,			201	203
					COLONEL H. NELSON, PETER G. PIERCE, VIRGINIA PIERCE, H. E.			1 1	
	24	ARC-11659	THRU	ARC-11659	RAINBOLT, HARRY SCHNITTGER, H. SETH WOOD	20000		1	
		_	02-0006-0010-0006	/ 21033	JOHN R. WARREN, DBA WARREN DRILLING COMPANY	JOHN R. WARREN, DBA, WARREN DRILLING COMPANY	ASSIGNMENT	104	270
			(DODDRIDGE)		ROCKWELL PETROLEUM COMPANY	ROCKWELL PETROLEUM COMPANY	ASSIGNMENT	104	254
			90		ROCKWELL PETROLEUM COMPANY	CPC 78-E	ASSIGNMENT	107	697
					ROCKWELL PETROLEUM COMPANY	CPC 78-E	ASSIGNMENT	107	698
					ROCKWELL PETROLEUM COMPANY	ROBERT R. JONES	ASSIGNMENT	127	224
					CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R.	MACK R. WORL	ASSIGNMENT	129	636
					WORL, ROYAL W. CARSON JR, AND EMILY CARSON	DEVON ENERGY CO.			
					DEVON ENERGY CORPORATION (NEVADA)	DEVON ENERGY CORPORATION	ASSIGNMENT	126	434
	1				The second control (NEVADA)	ROBERT R. JONES	ASSIGNMENT	179	373
W.	1				ROBERT R. JONES, INDIVIDUALLY, JUDITH L. JONES, INDIVIDUALLY,				
					AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY	CONTINENTAL DETROLEURA			
	1				ROCKWELL PETROLEUM COMPANY; ROCKWELL PETROLEUM	CONTINENTAL PETROLEUM LLC	ASSIGNMENT	191	128
		1			CORPORATION; ROCKWELL RESOURCES, LLC; MACKR. WORL; MARCIE				
	1	1			WORL KIRCHBERG; AND RICHARD CRAIG WORL, AND THEIR				- 1
					AFFILIATES AND COMPANIES	ROBERT R. JONES			
					001150	ANTERO RESOURCES APPALACHIAN CORPORATION	ASSIGNMENT	260	429
	1				DOCIMATEL PROGUE STATE		ASSIGNMENT	267	497
					ANTERO DESCUEDES ANTEROS	ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION	ASSIGNMENT	267	244
					ANTERO DESCUIRCES CORRORATION	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	WVSOS	
į	1					HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	531	124
			•			The contraction of the contracti	PARTIAL ASSIGNMENT	543	107

RECEIVED
Office of Oil and Gas-

ARC-48372

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02-0006-0004-0000

	GEORGE J. DETERMAN AND JOSEPHINE F. DETERMAN, HIS WIFE W.B. BERRY	W.B. BERRY	NOT LESS THAN 1/8	105	2
	J & J ENTERPRISES INC	J & J ENTERPRISES INC	ASSIGNMENT	112	30
		BENSON DRILLING JOINT VENTURE NO. 3	JOINT VENTURE AND ASSIGNMENT		24
	J & J ENTERPRISES INC	EASTERN AMERICAN ENERGY CORPORATION	CONFIRMATORY DEED	112	25
	BENSON DRILLING ASSOCIATES NO. 3	EASTERN AMERICAN ENERGY CORPORATION	ASSIGNMENT	159	13
	BENSON DRILLING JOINT VENTURE NO. 3	EASTERN AMERICAN ENERGY CORPORATION	ASSIGNMENT	166	49
	BENSON DRILLING JOINT VENTURE NO. 3	EASTERN AMERICAN ENERGY CORPORATION	ASSIGNMENT	167	28
	EASTERN AMERICAN ENERGY CORPORATION	ENERGY CORPORATION OF AMERICA	MERGER/NAME CHANGE	167	29
	ENERGY CORPORATION OF AMERICA	EASTERN ENERGY CORPORATION OF AMERICA		240	49
ARC-48372	EASTERN AMERICAN ENERGY CORPORATION	ENERGY CORPORATION OF AMERICA	CONFIRMATORY DEED	240	49
	ENERGY CORPORATION OF AMERICA	ANTERO RESOURCESAPPALACHIAN CORPORATION	MERGER/NAME CHANGE	283	43
	ANTERO RESOURCES APPALACHIAN CORPORATION	ANTERO RESOURCES CORPORATION	ASSIGNMENT	272	30
		ANTERO RESOURCES CORPORATION FKA ANTERO RESOURCES	MERGER/NAME CHANGE	46	52
	ENERGY CORPORATION OF AMERICA	APPALACHIAN CORPORATION	ACCION 1717		
	David B. Berry, Trustee of the WB Berry Energy Testamentary Trust of	THE TOTAL COME OF A PLOT	ASSIGNMENT	328	. 64
	Susan Tamminga	HG ENERGY II APPALACHIA LLC			
	David B. Berry, Trustee of the WB Berry Energy Testamentary Trust of	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	535	13
		HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	353	13
		HG ENERGY II APPALACHIA, LLC	PARTIAL ASSIGNMENT	531	124
		TO ENERGY II AFFALACHIA, LLC	PARTIAL ASSIGNMENT	543	10



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

Ch# 4746/00

October 17, 2024

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

RECEIVED
Office of Oil and Gas

NOV 0.8 2024

RE:

Van Wie 1221 N-3H Drill Permit Revision Request – (47-041-05762)

Freemans Creek District, Lewis County

West Virginia

WV Department of Environmental Protection

Dear Mr. Blevins -

Per our discussions, enclosed are revised forms (survey plat, mylar, AOR, WW-6B, casing schematic, and WW-6A1) and a check for expedited service for the 1221 N-3H well work drill permit revision request. We ask the permit to be modified to include additional acquired leases and revised well plans for the lateral.

Please let me know if you have any questions or require additional information. I can be reached at (304) 420-1119 or dwhite@hgenergyllc.com.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc:

Ken Greynolds – WV DEP State Inspector