

#### 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, July 26, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit Modification Approval for VANECK 1215 N-6H

47-041-05730-00-00

Lateral Revision

#### 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) 926-0450.

Operator's Well Number: VANECK 1215 N-6H

Farm Name: HG ENERGY II, APPALACHIA, LLC, ET AL

U.S. WELL NUMBER: 47-041-05730-00-00

Horizontal 6A New Drill Date Modification Issued: 7/26/2022

Promoting a healthy environment.

API	NO. 47		
	<b>OPERATOR WELL</b>	NO.	Vaneck 1215 N-6H
	Well Pad Name:	Vanec	k 1215

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

1) Well Opera	tor: HG Ene	ergy II Appa	lachia, L	494519932	Lewis	Freeman	Camden 7.5'
i) Heli opela				Operator ID	County	District	Quadrangle
2) Operator's '	Well Number	Vaneck 12	215 N-6H	Well P	ad Name: Va	neck 1215	
3) Farm Name	/Surface Owi	ner: HG Energ	y II Appalach	nia, LLC Public Ro	oad Access:	Mare Run Rd	at CR 10 / 9
4) Elevation, c	current ground	i: 1259'	El	evation, propose	d post-constru	ction: 1254.8	
5) Well Type	(a) Gas Other	X	_ Oil	Un	derground Sto	rage	
	(b)If Gas	Shallow Horizontal	x	Deep			~ ^ 04)
6) Existing Pa	d: Yes or No		-				elagla SDM
7) Proposed T	arget Formati	on(s), Depth		ipated Thickness nticipated pressur		l Pressure(s):	6130100
8) Proposed T	otal Vertical	Depth: 6,7	789'				
9) Formation a	at Total Verti	cal Depth:	Marcellu	s			
10) Proposed	Total Measure	ed Depth:	22,800'				
11) Proposed 1	Horizontal Le	g Length:	14,260'				
12) Approxim	ate Fresh Wa	ter Strata De	pths:	60', 214', 600'	, 861'		
13) Method to 14) Approxim			Depths: 1605'	Nearest offset we	ll data, (47-04	1-02173, 0693,	0236, 2308, 0578 )
15) Approxim	ate Coal Sear	n Depths: 2	72', 700', 10	040', 1150' (Surface	casing is being ex	xtended to cover t	he coal in the DTI Field)
16) Approxim	ate Depth to l	Possible Voi	d (coal m	ine, karst, other):	None		
17) Does Prop directly overly				ms Yes		No X	
(a) If Yes, pr	ovide Mine I	nfo: Name					
		Depth	:				
RECEIVED Office of Oil and Ga		Seam:					
		Owne	r:				
JUL 18 2022	_						

WV Department of Environmental Protection

WW-6B	
(04/15)	

API	NO. 47		
	OPERATOR WELL	NO.	Vaneck 1215 N-6H
	Well Pad Name:	Vaneo	k 1215

### 18)

## CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1200'	1200'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2250'	2250'	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N-80 BTC	40	4780'	4780'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	22800'	22800'	20% Excess Tail, CTS
Tubing							
Liners							

50W 6130/2022

TYPE	Size (in)	Wellbore Diameter (in)	Wall 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				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, Tall 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lead 40% excess, Teil 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							

#### **PACKERS**

Kind:		
Sizes:		
Depths Set:	OSCEWED.	

Office of Oil and Gas

JUL 18 2022

WV Department of Environmental Protection

WW-6B
(10/14)

API NO.	. 47			
OPE	RATOR V	VELL	NO.	Vaneck 1215 N-6H
We	II Pad Na	me:	Vanecl	k 1215

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 6789'. Drill horizontal leg to estimated 14,260' lateral length, 22,800' 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): 22.55 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.70 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 centralizer every 5 joints from the top of the curve to surface, Curve - Run 1 spiral centralizer every 3 joints from the 1st 5.5° long joint to the top of the curve.

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

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

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

Intermediate 1 - \*\*\* Storage String \*\*\* CTS \*\*\*\*15.4 ppg Lead \*\* 1984 1.24 - D898 Surface Set 100 to / seck (Mix of Class A and Gypsum to meet Dominion Requirements)B148 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / seck VBWOB And Foam / D202 - 0.15% BWOB Dispersant / D895 1.5 to per BBL CommNET\* - 60% Excess15.9 ppg Tell - Yield 1.17 - D896 Surface Set 100 to / seck (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 / seck And Foam / D801 - 0.03 gal / seck Retarder - 0% Excess\*

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\*

Production - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc ASCA1 + 0.5% bw

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 2 - Once casing is at setting depth. Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to numering comen

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.

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JUL 18 2022

WV Department of Environmental Protection

\*Note: Attach additional sheets as needed.

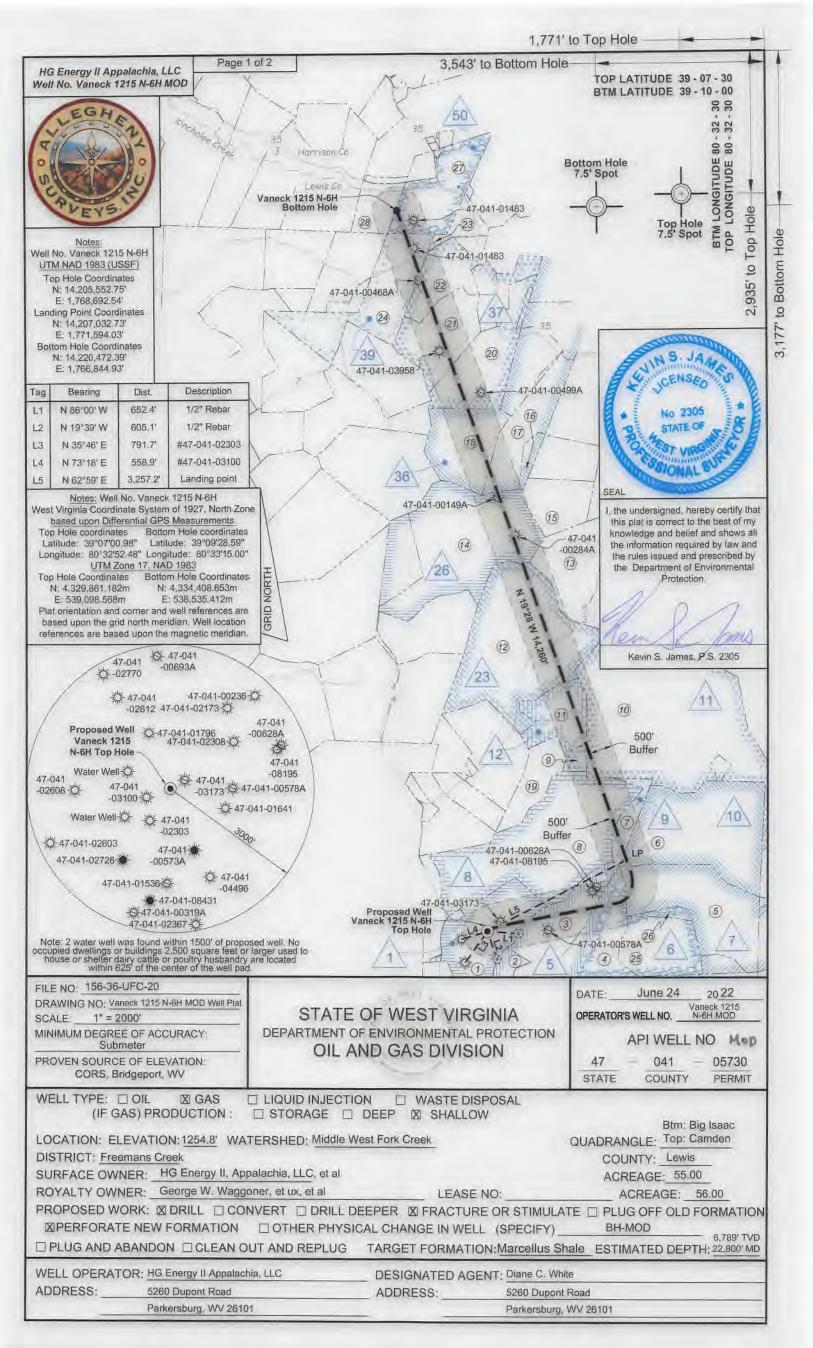
Page 3 of 3

15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 to / 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 to per BBL CemNET\* - 60% Excess
15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 to / 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

#### 1215 N-6H Marcellus Shale Horizontal Lewis County, WV

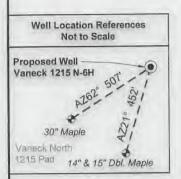


					1215 N	-6H SH		14	205552.75N 176869	2.53E
<b>Ground Elevation</b>		1254.	8'		1215	N-6H LP		14	207032.73N 177159	94.03E
Azm		340.53	18°		1215 N	-6H BH	L	14	220472.39N 176684	14.93E
WELLBORE DIAGRAM	HÖLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
×	30"	30" 157.5# LS	Conductor	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" with thickness
			Fresh Water	0	214, 600, 861		15.6 ppg PNE-1 + 3%	400000000000	Once casing is at setting depth, circulate a minimum	Surface casing = 0.438" w
X X	X 26" 20" Kittaning Coal 900	900	905	AIR	bwoc CaCl 40% Excess	Centralized every 3 joints to surface	of one hole volume with	thickness		
X E S X			Fresh Water Protection	0	1200		Yield=1,20 / CTS	Tanto se sun man	Fresh Water prior to pumping cement.	Burst=2110 psi
	111		Little Lime	1694	1714		See above (LEFT) for	Bow Spring on every	Once casing is at setting	
		13-3/8" 68#	Big Lime	1741	1818	AIR / KCL	Storage String Cement	joint	depth, Circulate and condition at TD. Circulate a	Intermediate casing = 0.48
X	17.5"	J-55 BTC	Injun / Gantz (Storage)	1818 / 2073	1904 / 2125	Salt	Blend to Meet DTI Requirements for Gas	"will also be running ACP for isolating	minimum of one hole	wall thickness Burst=3450 psi
			Intermediate 1	0	2375	- Faginar	Storage Field Isolation	slorage zone*	volume prior to pumping cement.	
x	Intermediate 1 0 2375 367age Field isolation cemen									
			Gordon Stray / Gordon	2320 / 2346	2336 / 2446					
	11	0.500.104	5th Sand	2590	2612		Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl	Bow Spring on first 2	Once casing is at setting depth, Circulate and	Intermediate casing = 0.395
x x	All the		Bayard	2660	2675	AIR / KCL				
	12.25"	9-5/8" 40# N-80 BTC	Speechley	3287 3301 Solumer Ppg PNE-1 + 2.5% bwoc joint to 100 form Circulate a minimum of one Runster Stop program of the control of th						
		37,15 % % (%)				Polymer	CaCl	surface	hole valume prior to	Burst=5750 psi
			Benson	4572	4588		zero% Excess. CTS		pumping cement.	
			Intermediate 2	0	TVD: 4780' MD: 5025' Inc: 53 deg.					
X   X								Run 1 spiral centralizer		
	8.75"					AIR / 9.0ppg		every 5 joints from the		
				1		SOBM	Lead: 14.5 ppg	top of the curve to surface.		
							POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc	surface.		
			Rhinestreet	6125	6290		EC1 + 0.75 gal/sk FP13L		Once on bottom/TD with	the second second
_ 🗿 📗		5-1/2"	Cashaqua	6290	6391		+ 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 +		casing, circulate at max allowable pump rate for at	Production casing = 0.415 wall thickness
ARECEIVED Office of Oil and Gas	1200	23#	Middlesex	6391	6425	11.5ppg-	0.35% bwoc R3 ± 0.75	1	least 2x bottoms up, or until	Burst=16240 psi
_ 30	8.5" Curve P-110 HP CDC HTQ West River 6425 6500 12.5ppg gal/sk FP13L + 50% bwoc ASCA1 ± 0.5% bwoc ASCA1 ± 0.5% bwoc ASCA1 ± 0.5% bwoc MPA170 20% Excess 1 Tully Limestone 6535 6625 Sobb Medical Lead Yielde 1.19 returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Note:Actual centralizer								
		schedules may be chang due to hole conditions								
2 2 2 2			- 0000000000000000000000000000000000000							
ARECEIVED The of Oil and Ga			Hamilton	6625	6753		Tail Yield=1.94	top of the curve.	partiping cernetit.	
8			Marcellus	6753	6803	11.5ppg-	CTS			
	8.5" Lateral		TMD / TVD (Production)	22800	6789	12.5ppg SOBM				
X   X			Onondaga	6803						
	X	X	X	X		Х	X	X	X	X
LP@6	789' TVD / 8540' MD			8.5" Hole - Cement 5-1/2" 23# P-110				+/-142	60' ft Lateral	TD @ +/-6789' TVD +/-22800' MD

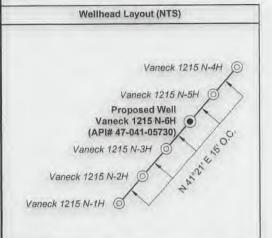


HG Energy II Appalachia, LLC Well No. Vaneck 1215 N-6H MOD





	Legend
•	Proposed gas well
*	Well Reference, as noted
$\otimes$	Monument, as noted
禁	Existing Well, as noted
*	Existing Plugged Well, as noted
*	Digitized Well, as noted
	Creek or Drain
	Existing Road
_	<ul> <li>Surface boundary (approx.)</li> </ul>
	<ul> <li>Adjoiner surface tracts (approx.)</li> </ul>



ID	Lease
4	George W. Waggoner, et ux
5	F. While
6	J.A. Burnside, et ux
7	Blonda S. Hall, et al
8	Fielding B. Riley, et al
9	Flossie Riley, et al
10	N.A. Lovett, et ux
11	Hudson Bailey, et ux
12	Hunter M. Bennett, et ux
23	George I. Davisson, et al
26	Francis M. McKinley, et ux
36	J.A. White, et ux
37	Guffey Oil and Gas Royalties, Inc.
39	Dovener C. Burnside, et ux
50.	William A. Booth, et ux

2 5C / 25 Raymond C. & Colona J. Waggoner 567 / 416 45.44 3 5C / 27 Jack E. & Cerilda M. Waggoner 547 / 691 57.91 4 5C / 22 Linda L. Waggoner W33 / 157 57.71 5 5C / 37 Phillip E. Burnside 766 / 831 83.71 6 5C / 32 Robert S. Glotfelty 399 / 241 94.44 7 5C / 31 Nancy Hayhurst, et al F30 / 392 13.71 8 5C / 30 Woody Lumber Co., Inc. 590 / 438 140.51 9 5B / 17 Mike Ross, Inc. 659 / 215 3.50 10 5B / 18 Mike Ross Inc. 659 / 215 3.50 11 5B / 19 Theodore J. & Jacqueline Riley 578 / 99 35.11 12 5B / 21 Theodore J. & Jacqueline Riley 467 / 254 140.01 13 5B / 31 Mark D. & Lisa A. Griffith 652 / 69 64.01 14 5B / 25.1 Jeffrey P. & Anessa E. Griffith 745 / 338 118.21 15 5B / 29 Kelly Joanne Bowie 622 / 463 32.01 16 5B / 27 Kelly Joanne Bowie 622 / 463 6.25 17 5B / 43 Brian K. & Debra D. Lough 728 / 285 43.71 18 5B / 26 Dawna Jo Burnside 762 / 219 52.01 19 5C / 55 Debora Burnside Garrett, et al WB R / 525 25.01 20 5A / 12 Jeffrey P. & Anessa E. Griffith 745 / 162 47.81 21 5A / 12 Jeffrey P. & Anessa E. Griffith 745 / 162 47.81 22 5A / 8 Robert F. Burnside 710 / 276 1.50 23 5A / 7 Robert F. Burnside 710 / 276 1.50 24 5A / 6 Jeffrey P. & Anessa E. Griffith 692 / 498 78.01 25 5C / 39 Phillip E. Burnside 766 / 831 4.25 26 5C / 38 Phillip E. Burnside 766 / 831 4.25 27 421 / 44 Matthew C. & Shana L. Gould 1468 / 1020 51.2			Lewis Co Freeman Creek Dist.	1000000	
2         5C / 25         Raymond C. & Colona J. Waggoner         567 / 416         45.44           3         5C / 27.2         Jack E. & Cerilda M. Waggoner         547 / 691         57.9           4         5C / 22         Linda L. Waggoner         W33 / 157         57.7           5         5C / 37         Phillip E. Burnside         766 / 831         83.7           6         5C / 32         Robert S. Glotfelty         399 / 241         94.4           7         5C / 31         Nancy Hayhurst, et al         F30 / 392         13.73           8         5C / 30         Woody Lumber Co., Inc.         599 / 438         140.5           9         5B / 17         Mike Ross, Inc.         659 / 215         3.50           10         5B / 18         Mike Ross, Inc.         659 / 215         3.50           11         5B / 19         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 25         Kelly Joanne Bowie         622 / 463         32.0           15         5B / 29 <th>No.</th> <th>TM / Par</th> <th></th> <th>Bk / Pg</th> <th>Ac.</th>	No.	TM / Par		Bk / Pg	Ac.
2         5C / 25         Raymond C. & Colona J. Waggoner         567 / 416         45.44           3         5C / 27.2         Jack E. & Cerilda M. Waggoner         547 / 691         57.9           4         5C / 22         Linda L. Waggoner         766 / 831         83.7           5         5C / 32         Robert S. Glotfelty         399 / 241         94.4           7         5C / 31         Nancy Hayhurst, et al         F30 / 392         13.73           8         5C / 30         Woody Lumber Co., Inc.         599 / 438         140.5           9         5B / 17         Mike Ross, Inc.         659 / 215         3.50           10         5B / 18         Mike Ross, Inc.         659 / 215         3.50           11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 25         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16 <t< td=""><td>1</td><td>5C / 29</td><td>HG Energy II Appalachia, LLC</td><td>765 / 894</td><td>55.00</td></t<>	1	5C / 29	HG Energy II Appalachia, LLC	765 / 894	55.00
3         5C / 27.2         Jack E. & Cerilda M. Waggoner         547 / 691         57.9°           4         5C / 22         Linda L. Waggoner         W33 / 157         57.9°           5         5C / 37         Phillip E. Burnside         766 / 831         83.7°           6         5C / 32         Robert S. Glotfelty         399 / 241         94.4°           7         5C / 31         Nancy Hayhurst, et al         F30 / 392         13.7°           8         5C / 30         Woody Lumber Co., Inc.         590 / 438         140.5°           9         5B / 17         Mike Ross, Inc.         659 / 215         3.5°           10         5B / 18         Mike Ross Inc.         659 / 215         279.5°           11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0°           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0°           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0°           14         5B / 25         Kelly Joanne Bowie         622 / 463         32.0°           15         5B / 29         Kelly Joanne Bowie         622 / 463         6.2°           16         5B / 27	2	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
5         5C / 37         Phillip E. Burnside         766 / 831         83.73           6         5C / 32         Robert S. Glotfelty         399 / 241         94.44           7         5C / 31         Nancy Hayhurst, et al         F30 / 392         13.73           8         5C / 30         Woody Lumber Co., Inc.         590 / 438         140.5           9         5B / 17         Mike Ross, Inc.         659 / 215         3.50           10         5B / 18         Mike Ross, Inc.         659 / 215         279.6           11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 251         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         6.25           16         5B / 27         Kelly Joanne Bowie         622 / 463         6.25           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26 <td></td> <td>5C / 27.2</td> <td>Jack E. &amp; Cerilda M. Waggoner</td> <td>547 / 691</td> <td>57.97</td>		5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
6         5C / 32         Robert S. Glotfelty         399 / 241         94.44           7         5C / 31         Nancy Hayhurst, et al         F30 / 392         13.73           8         5C / 30         Woody Lumber Co., Inc.         599 / 438         140.5           9         5B / 17         Mike Ross, Inc.         659 / 215         3.50           10         5B / 18         Mike Ross, Inc.         659 / 215         279.8           11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 251         Jeffrey P. & Anessa E. Griffith         745 / 333         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 28         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55	4	5C / 22	Linda L. Waggoner	W33 / 157	57.76
7         5C / 31         Nancy Hayhurst, et al         F30 / 392         13.73           8         5C / 30         Woody Lumber Co., Inc.         590 / 438         140.5           9         5B / 17         Mike Ross, Inc.         659 / 215         3.50           10         5B / 18         Mike Ross Inc.         659 / 215         279.5           11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 251         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12<	5	5C / 37	Phillip E. Burnside	766 / 831	83.75
7         5C / 31         Nancy Hayhurst, et al         F30 / 392         13.73           8         5C / 30         Woody Lumber Co., Inc.         599 / 438         140.5           9         5B / 17         Mike Ross, Inc.         659 / 215         3.50           10         5B / 18         Mike Ross, Inc.         659 / 215         279.8           11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 251         Jeffrey P. & Anessa E. Griffith         745 / 333         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12	6	5C / 32	Robert S. Glotfelty	399 / 241	94.40
9 5B / 17 Mike Ross, Inc. 659 / 215 3.50 10 5B / 18 Mike Ross Inc. 659 / 215 279.5 11 5B / 19 Theodore J. & Jacqueline Riley 578 / 99 35.0 12 5B / 21 Theodore J. & Jacqueline Riley 467 / 254 140.0 13 5B / 31 Mark D. & Lisa A. Griffith 652 / 69 64.0 14 5B / 25.1 Jeffrey P. & Anessa E. Griffith 745 / 338 118.2 15 5B / 29 Kelly Joanne Bowie 622 / 463 32.0 16 5B / 27 Kelly Joanne Bowie 622 / 463 6.25 17 5B / 43 Brian K. & Debra D. Lough 728 / 285 43.7 18 5B / 26 Dawna Jo Burnside 762 / 219 52.0 19 5C / 55 Debora Burnside Garrett, et al WB R / 525 25.0 20 5A / 12 Jeffrey P. & Anessa E. Griffith 745 / 162 47.8 21 5A / 12.1 Jeffrey P. & Anessa E. Griffith 745 / 162 47.8 22 5A / 8 Robert F. Burnside 710 / 276 32.6 23 5A / 7 Robert F. Burnside 710 / 276 1.50 24 5A / 6 Jeffrey P. & Anessa E. Griffith 692 / 498 78.0 25 5C / 39 Phillip E. Burnside 766 / 831 4.25 10 TM / Par Owner Bk / Pg Ac. 27 421 / 44 Matthew C. & Shana L. Gould 1468 / 1020 51.2			Nancy Hayhurst, et al	F30 / 392	13.75
10         5B / 18         Mike Ross Inc.         659 / 215         279.5           11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 25.1         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8	8	5C / 30	Woody Lumber Co., Inc.	590 / 438	140.50
11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 25.1         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         6.25           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           23         5A / 7         Robert F. Burnside         710 / 276         1.50           23         5A / 7         Robert F. Burnside         766 / 831         4.26	-		Mike Ross, Inc.	659 / 215	3.50
11         5B / 19         Theodore J. & Jacqueline Riley         578 / 99         35.0           12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 25.1         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         6.25           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           23         5A / 7         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         666 / 503         47.0	10	5B / 18	Mike Ross Inc.	659 / 215	279.97
12         5B / 21         Theodore J. & Jacqueline Riley         467 / 254         140.0           13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 25.1         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         6.25           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           23         5A / 7         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         766 / 831         4.26           25         5C / 39         Phillip E. Burnside         766 / 831         4.26           26 </td <td>-</td> <td>5B / 19</td> <td>Theodore J. &amp; Jacqueline Riley</td> <td>578 / 99</td> <td>35.00</td>	-	5B / 19	Theodore J. & Jacqueline Riley	578 / 99	35.00
13         5B / 31         Mark D. & Lisa A. Griffith         652 / 69         64.0           14         5B / 25.1         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         32.0           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           22         5A / 8         Robert F. Burnside         710 / 276         1.50           23         5A / 7         Robert F. Burnside         710 / 276         1.50           24         5A / 6         Jeffrey P. & Anessa E. Griffith         692 / 498         78.0           25         5C / 38         Phillip E. Burnside         766 / 831         4.25           Harri			Theodore J. & Jacqueline Riley	467 / 254	140.00
14         5B / 25.1         Jeffrey P. & Anessa E. Griffith         745 / 338         118.2           15         5B / 29         Kelly Joanne Bowie         622 / 463         32.0           16         5B / 27         Kelly Joanne Bowie         622 / 463         6.25           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           22         5A / 8         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         710 / 276         1.50           25         5C / 39         Phillip E. Burnside         666 / 503         47.0           25         5C / 38         Phillip E. Burnside         766 / 831         4.26           40         5C / 38         Phillip E. Burnside         766 / 831         4.26           No.         T	-			652 / 69	64.04
16         5B / 27         Kelly Joanne Bowie         622 / 463         6.25           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           22         5A / 8         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         710 / 276         1.50           24         5A / 6         Jeffrey P. & Anessa E. Griffith         692 / 498         78.0           25         5C / 39         Phillip E. Burnside         666 / 503         47.0           26         5C / 38         Phillip E. Burnside         766 / 831         4.26           No.         TM / Par         Owner         Bk / Pg         Ac.           27         421 / 44         Matthew C. & Shana L. Gould         1468 / 1020         51.2			Jeffrey P. & Anessa E. Griffith	745 / 338	118.29
16         5B / 27         Kelly Joanne Bowie         622 / 463         6.25           17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           22         5A / 8         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         710 / 276         1.50           24         5A / 6         Jeffrey P. & Anessa E. Griffith         692 / 498         78.0           25         5C / 39         Phillip E. Burnside         666 / 503         47.0           26         5C / 38         Phillip E. Burnside         766 / 831         4.26           No.         TM / Par         Owner         Bk / Pg         Ac.           27         421 / 44         Matthew C. & Shana L. Gould         1468 / 1020         51.2	15	5B / 29	Kelly Joanne Bowie	622 / 463	32.00
17         5B / 43         Brian K. & Debra D. Lough         728 / 285         43.7           18         5B / 26         Dawna Jo Burnside         762 / 219         52.0           19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           22         5A / 8         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         710 / 276         1.50           24         5A / 6         Jeffrey P. & Anessa E. Griffith         692 / 498         78.0           25         5C / 39         Phillip E. Burnside         666 / 503         47.0           26         5C / 38         Phillip E. Burnside         766 / 831         4.26           Harrison Co Union-Outside Dist.         Owner         Bk / Pg         Ac.           No.         TM / Par         Owner         Bk / Pg         Ac.           27         421 / 44         Matthew C. & Shana L. Gould         1468 / 1020         51.2	-		Kelly Joanne Bowie	622 / 463	6.25
19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           22         5A / 8         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         710 / 276         1.50           24         5A / 6         Jeffrey P. & Anessa E. Griffith         692 / 498         78.0           25         5C / 39         Phillip E. Burnside         666 / 503         47.0           26         5C / 38         Phillip E. Burnside         766 / 831         4.26           Harrison Co Union-Outside Dist.           No.         TM / Par         Owner         Bk / Pg         Ac.           27         421 / 44         Matthew C. & Shana L. Gould         1468 / 1020         51.2		5B / 43	Brian K. & Debra D. Lough	728 / 285	43.77
19         5C / 55         Debora Burnside Garrett, et al         WB R / 525         25.0           20         5A / 12         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           21         5A / 12.1         Jeffrey P. & Anessa E. Griffith         745 / 162         47.8           22         5A / 8         Robert F. Burnside         710 / 276         32.6           23         5A / 7         Robert F. Burnside         710 / 276         1.50           24         5A / 6         Jeffrey P. & Anessa E. Griffith         692 / 498         78.0           25         5C / 39         Phillip E. Burnside         666 / 503         47.0           26         5C / 38         Phillip E. Burnside         766 / 831         4.25           Harrison Co Union-Outside Dist.           No.         TM / Par         Owner         Bk / Pg         Ac.           27         421 / 44         Matthew C. & Shana L. Gould         1468 / 1020         51.2	10.14		Dawna Jo Burnside	762 / 219	52.00
21     5A / 12.1     Jeffrey P. & Anessa E. Griffith     745 / 162     47.8       22     5A / 8     Robert F. Burnside     710 / 276     32.6       23     5A / 7     Robert F. Burnside     710 / 276     1.50       24     5A / 6     Jeffrey P. & Anessa E. Griffith     692 / 498     78.0       25     5C / 39     Phillip E. Burnside     666 / 503     47.0       26     5C / 38     Phillip E. Burnside     766 / 831     4.25       Harrison Co Union-Outside Dist.       No.     TM / Par     Owner     Bk / Pg     Ac.       27     421 / 44     Matthew C. & Shana L. Gould     1468 / 1020     51.2	-	5C / 55	Debora Burnside Garrett, et al	WB R / 525	25.00
21     5A / 12.1     Jeffrey P. & Anessa E. Griffith     745 / 162     47.8       22     5A / 8     Robert F. Burnside     710 / 276     32.6       23     5A / 7     Robert F. Burnside     710 / 276     1.50       24     5A / 6     Jeffrey P. & Anessa E. Griffith     692 / 498     78.0       25     5C / 39     Phillip E. Burnside     666 / 503     47.0       26     5C / 38     Phillip E. Burnside     766 / 831     4.25       Harrison Co Union-Outside Dist.       No. TM / Par     Owner     Bk / Pg     Ac.       27     421 / 44     Matthew C. & Shana L. Gould     1468 / 1020     51.2	20	5A/12	Jeffrey P. & Anessa E. Griffith	745 / 162	47.84
22     5A / 8     Robert F. Burnside     710 / 276     32.6       23     5A / 7     Robert F. Burnside     710 / 276     1.50       24     5A / 6     Jeffrey P. & Anessa E. Griffith     692 / 498     78.0       25     5C / 39     Phillip E. Burnside     666 / 503     47.0       26     5C / 38     Phillip E. Burnside     766 / 831     4.25       Harrison Co Union-Outside Dist.       No.     TM / Par     Owner     Bk / Pg     Ac.       27     421 / 44     Matthew C. & Shana L. Gould     1468 / 1020     51.2		5A / 12.1	Jeffrey P. & Anessa E. Griffith	745 / 162	47.84
24       5A / 6       Jeffrey P. & Anessa E. Griffith       692 / 498       78.0         25       5C / 39       Phillip E. Burnside       666 / 503       47.0         26       5C / 38       Phillip E. Burnside       766 / 831       4.25         Harrison Co Union-Outside Dist.         No.       TM / Par       Owner       Bk / Pg       Ac.         27       421 / 44       Matthew C. & Shana L. Gould       1468 / 1020       51.2		5A/8		710 / 276	32.61
24         5A / 6         Jeffrey P. & Anessa E. Griffith         692 / 498         78.0           25         5C / 39         Phillip E. Burnside         666 / 503         47.0           26         5C / 38         Phillip E. Burnside         766 / 831         4.25           Harrison Co Union-Outside Dist.           No.         TM / Par         Owner         Bk / Pg         Ac.           27         421 / 44         Matthew C. & Shana L. Gould         1468 / 1020         51.2			Robert F. Burnside	710 / 276	1.50
25     5C / 39     Phillip E. Burnside     666 / 503     47.0       26     5C / 38     Phillip E. Burnside     766 / 831     4.25       Harrison Co Union-Outside Dist.       No.     TM / Par     Owner     Bk / Pg     Ac.       27     421 / 44     Matthew C. & Shana L. Gould     1468 / 1020     51.2	-	5A/6	Jeffrey P. & Anessa E. Griffith	692 / 498	78.00
26         5C / 38         Phillip E. Burnside         766 / 831         4.25           Harrison Co Union-Outside Dist.           No.   TM / Par         Owner         Bk / Pg         Ac.           27         421 / 44         Matthew C. & Shana L. Gould         1468 / 1020         51.2	-			666 / 503	47.00
Harrison Co Union-Outside Dist.	_	5C / 38	Phillip E. Burnside	766 / 831	4.25
27 421 / 44 Matthew C. & Shana L. Gould 1468 / 1020 51.2			Harrison Co Union-Outside Dist.		
27 421 / 44 Matthew C. & Shana L. Gould 1468 / 1020 51.2	No.	TM / Par		Bk/Pg	Ac.
		421 / 44	Matthew C. & Shana L. Gould	1468 / 1020	51.21
28   421 / 36   Stelling & Shella Shilling   1410 / 673   23.0	28	421 / 36	Sterling & Sheila Smith	1416 / 875	23.00

FILE NO: 156-36-UFC-20

DRAWING NO: Vaneck 1215 N-6H MOD Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:

CORS, Bridgeport, WV

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

DATE: June 24 20 22

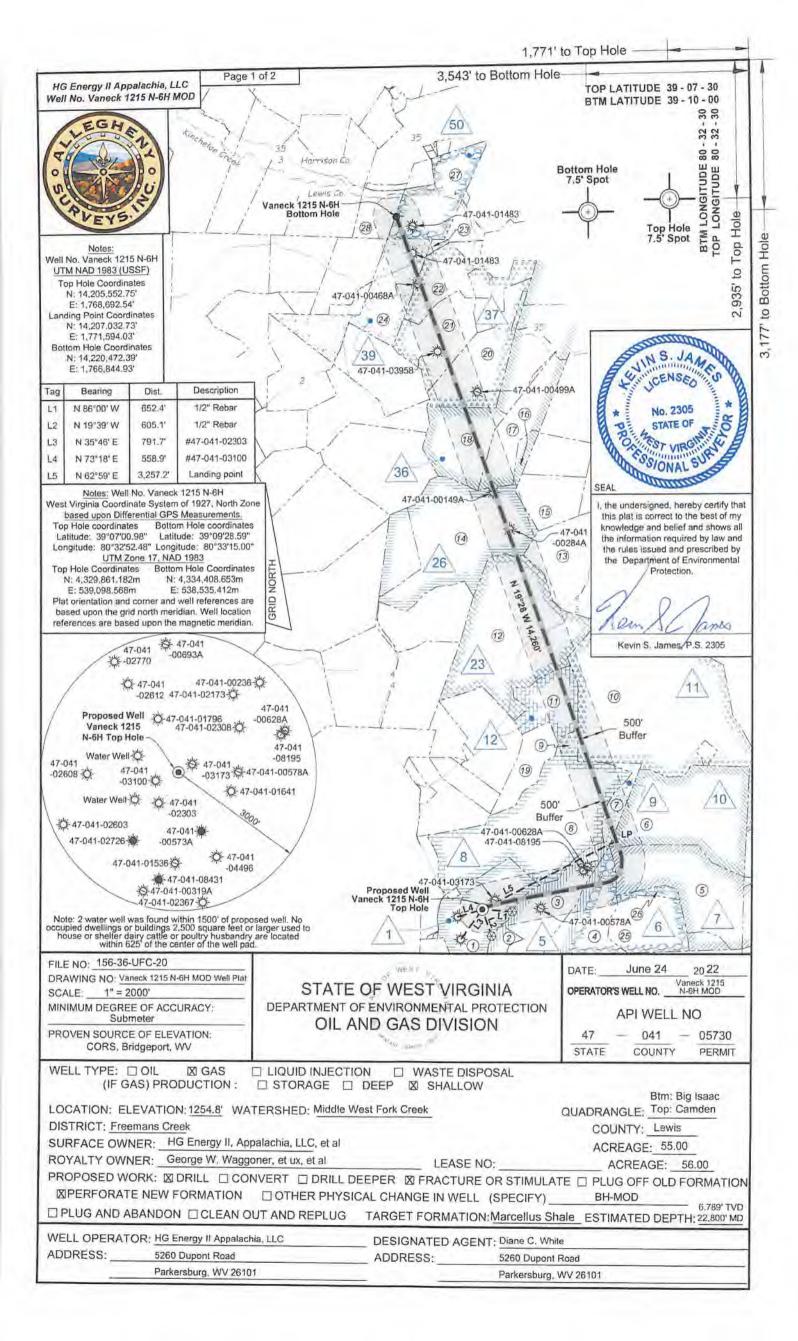
OPERATOR'S WELL NO. Vaneck 1215
N-6H MOD

API WELL NO No.

47 — 041 — 05730

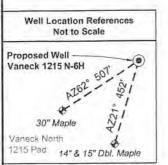
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION : ☐ STORAGE ☐	ON ☐ WASTE DISPOSAL DEEP ☒ SHALLOW	Btm: Big Isaac
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle W	est Fork Creek	QUADRANGLE: Top: Camden
DISTRICT: Freemans Creek		COUNTY: Lewis
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al		ACREAGE: 55.00
ROYALTY OWNER: George W. Waggoner, et ux, et al	LEASE NO:	ACREAGE: 56.00
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL D ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSIC		
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus	Shale ESTIMATED DEPTH: 22,800' MD
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C.	White
ADDRESS: 5260 Dupont Road	ADDRESS: 5260 Dup	ont Road
Parkersburg, WV 26101	Parkersbi	urg, WV 26101



HG Energy II Appalachia, LLC Well No. Vaneck 1215 N-6H MOD



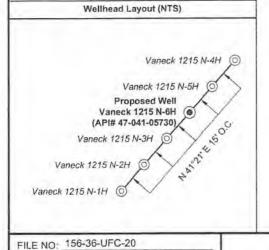


ID	Lease
1	George W. Waggoner, et ux
5	F. White
6	J.A. Burnside, et ux
7	Blonda S, Hall, et al
8	Fielding B. Riley, et al
9	Flossie Riley, et al
10	N.A. Lovett, et ux
11	Hudson Balley, et ux
12	Hunter M. Bennett, et ux
23	George I. Davisson, et al
26	Francis M. McKinley, et ux
36	J.A. White, et ux
37	Guffey Oil and Gas Royalties, Inc.
39	Dovener C. Burnside, et ux
50	William A. Booth, et ux

	Legend
•	Proposed gas well
0	Well Reference, as noted
⊗	Monument, as noted
**	Existing Well, as noted
*	Existing Plugged Well, as noted
袋	Digitized Well, as noted
= 4	Creek or Drain
	Existing Road
	Surface boundary (approx.)     Adjoiner surface tracts (approx.)

		Lewis Co Freeman Creek Dist.	to Tours	
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	HG Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45,48
3	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
4	5C / 22	Linda L. Waggoner	W33 / 157	57,76
5	5C / 37	Phillip E. Burnside	766 / 831	83.75
6	5C / 32	Robert S. Glotfelty	399 / 241	94.40
7	5C / 31	Nancy Hayhurst, et al	F30 / 392	13.75
8	5C / 30	Woody Lumber Co., Inc.	590 / 438	140.50
9	5B / 17	Mike Ross, Inc.	659 / 215	3.50
10	5B / 18	Mike Ross Inc.	659 / 215	279.9
11	5B / 19	Theodore J. & Jacqueline Riley	578 / 99	35.00
12	5B / 21	Theodore J. & Jacqueline Riley	467 / 254	140.00
13	5B / 31	Mark D. & Lisa A. Griffith	652 / 69	64.04
14	5B / 25.1	Jeffrey P. & Anessa E. Griffith	745 / 338	118.29
15	5B / 29	Kelly Joanne Bowie	622 / 463	32.00
16	5B / 27	Kelly Joanne Bowie	622 / 463	6.25
17	5B / 43	Brian K. & Debra D. Lough	728 / 285	43.77
18	5B / 26	Dawna Jo Burnside	762 / 219	52.00
19	5C / 55	Debora Burnside Garrett, et al	WB R / 525	25.00
20	5A / 12	Jeffrey P. & Anessa E. Griffith	745 / 162	47.84
21	5A / 12.1	Jeffrey P. & Anessa E. Griffith	745 / 162	47.84
22	5A/8	Robert F. Burnside	710 / 276	32.61
23	5A / 7	Robert F. Burnside	710 / 276	1.50
24	5A/6	Jeffrey P. & Anessa E. Griffith	692 / 498	78.00
25	5C / 39	Phillip E. Burnside	666 / 503	47.00
26	5C / 38	Phillip E. Burnside	766 / 831	4.25
-		Harrison Co Union-Outside Dist.		
No.	TM / Par	Owner	Bk / Pg	Ac.
27	421 / 44	Matthew C. & Shana L. Gould	1468 / 1020	51.21
28	421 / 36	Sterling & Sheila Smith	1416 / 875	23.00

DATE:



DRAWING NO; Vaneck 1215 N-6H MOD Well Plat

1" = 2000"

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

SCALE:

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

WEST

 OPERATOR'S WELL NO.
 Vaneck 1215 N-6H MOD

 API WELL NO
 47
 — 041
 — 05730

 STATE
 COUNTY
 PERMIT

June 24

20 22

WELL TYPE: ☐ OIL ☐ GAS ☐ LIQUID INJECTION (IF GAS) PRODUCTION: ☐ STORAGE ☐ D	DEEP X SHALLOW	Btm: Big Isaac QUADRANGLE: Top: Camden
DISTRICT: Freemans Creek		COUNTY: Lewis
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al.		ACREAGE: 55.00
ROYALTY OWNER: George W. Waggoner, et ux, et al	LEASE NO:	ACREAGE: 56.00
PROPOSED WORK: ☑ DRILL ☐ CONVERT ☐ DRILL DEE ☑ PERFORATE NEW FORMATION ☐ OTHER PHYSICA		
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG	TARGET FORMATION: Marcellus S	hale ESTIMATED DEPTH: 22,800' MD
WELL OPERATOR: HG Energy II Appalachia, LLC	DESIGNATED AGENT: Diane C. Wh	ite
ADDRESS; 5260 Dupont Road	ADDRESS: 5260 Dupon	Road
Parkersburg, WV 26101	Parkersburg	WV 26101

#### 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:

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

\*\*See Attached Sheets\*\*

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

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

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

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

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

#### HG Energy II Appalachia, LLC - Vaneck 1215 N-6H

	LEGACY LEASE						DEED BOOK	PAGE
L215N Tract	NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY		
				GEO. W. WAGGONER AND ROSA M. WAGGONER, HIS WIFE	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	73	3
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	3
			1	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	
				PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246 294	
				HOPE NATURAL GAS COMPANY .	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
		03-005C-0027-0001		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
1	FK051509	03-005C-0029-0000	Q100665000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	<b></b>
		03 0030 0023 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	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	<u> </u>
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	<u> </u>
	•					SECOND AMENDMENT TO MEMORANDUM OF	722	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	
						THIRD AMENDMENT TO MEMORANDUM OF		1
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734 736	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	/30	
		p/o 03-005C-0022-0000				·	i	1
		p/o 03-005C-0022-0000 p/o 03-005C-0022-0001						
		p/o 03-005C-0025-0000		F. WHITE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	
		p/o 03-005C-0027-0002	5C-0027-0002 -0045-0000 -0046-0000	T. N.BARNSDALL, SOUTHERN OIL COMPANY, AND FRED S. RICH	RESERVE GAS COMPANY	ASSIGNMENT	85	
		03-005C-0045-0000		RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	
		03-005C-0046-0000		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
		03-005D-0020-0000		CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
		p/o 03-005D-0035-0000 p/o 03-005D-0036-0000 03-005D-0036-0001 03-005D-0036-0002 03-005D-0037-0000		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
` 5	FK053097		0100222000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	
5	FN053097		Q100333000	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	
	Ì	03-005D-0038-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	
	l i	03-005D-0060-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	2
		03-005D-0060-0001	THRU 5D-0060-0015 5D-0061-0000 5D-0061-0001	DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSO:	5
						SECOND AMENDMENT TO MEMORANDUM OF		1
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	3
		03-005D-0061-0000				THIRD AMENDMENT TO MEMORANDUM OF		1
		03-005D-0061-0001		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	
		U3-UU3D-UU0Z-UUUU		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	730	6
			<u> </u>	J. A. BURNSIDE AND ELLA BLANCHE BURNSIDE, HIS WIFE, EACH IN				
			}	THEIR OWN RIGHT	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	20	9
•			1	HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	29	4
	1		1	CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	42	5l

	1							
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	767	68
	i			RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	SST	707
				FLOSSIE RILEY, WIDOW; AND RUBY M. RILEY, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	161	905
		Į.		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	987	220
	Ì	1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	<b>⊅</b> 8∠	855
			Ì			THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	773	6617
			ľ			SECOND AMENDMENT TO MEMORANDUM OF		
			Į.	DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	SOSVW	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	727	0 <b>/</b> T
οτ	ЕКО23ТСТ	03-002C-0033-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	<b>LIT</b>	τ
O.	19153033	03-002C-0035-0000	Q100334000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	217	848
	Į.			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	<del>1</del> 89	<b>ZS</b>
		Į.		DOMINION TRANSMISSION, INC.	CUX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	749	7ST
		i		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	SOSVW	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	SOSVW	
	j			CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	5Z <i>†</i>	727
		İ		HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	794	68
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	S8	721
				N. A. LOVETT AND S. E. A. LOVETT, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	74	60T
		1		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	987	220
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	<b>₽</b> £7	855
					·	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	773	667
						SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	SOSVW	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	777	0/፲
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	<b>LTL</b>	τ
		03-002C-004T-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	848
L	£K0€4784	03-002C-0040-0000	0007201010	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	<del>1</del> 89	<b>ZS</b>
		03-002C-003Y-0000	0002307070	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	7/9	72 <del>4</del>
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	SOSVW	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	SOSVW	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	727
1				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	767	68
İ				HALL GIBBS; AND, HERBERT F. GIBBS, 1R., HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	222	6 <del>77</del>
i				STEPHENS AND CHARLES H. STEPHENS, HER HUSBAND; MABEL JANE				
i				COSBY AND ROBERT S. COSBY, JR., HER HUSBAND; ROBERTA HALL		ĺ		
i				PATRICIA HALL, HIS WIFE; MABEL HALL, WIDOW; MARJORIE HALL				
				BLONDA S. HALL AND LUCY S. HALL, HIS WIFE; JAMES H. HALL AND				
i				DOMINION ENERGY TRANSMISSION, INC.	НО ЕИЕВСУ ІІ АРРАГАСНІА, LLC	ASSIGNMENT (68%)	984	220
1	1			DOMINION ENERGY TRANSMISSION, INC.	не еиекву II АРРАLАСНІА, LLC	тизмээхэх тломхач	<b>⊅</b> £∠	855
1						<b>ТИНВР АМЕИРМЕИТ ТО МЕМОЯАИРИМ ОF</b>		
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	667
l						SECOND AMENDMENT TO MEMORANDUM OF		
1 '	1			DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	SOSVW	
1				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	ZZL	0 <b>/</b> T
1		b/o 03-002C-005S-0000		CUX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	<b>LTL</b>	τ
9	FK061775	03-002C-0036-0000	Q100785000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	ZTZ	848
1	1	03-002C-0038-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	<del>1</del> 89	۷S
1	1			DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	7/9	<b>TST</b>
}	1			CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	SOSVW	
1	1	i .		CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	SOSVW	

.

848	ZTZ	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.	1		1	1
/5	1789	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	COX GAS COMPANY LLC				
tST.	749	MEMORANDUM OF FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	Q102422000	03-002C-002T-0000	ŁKO25558	TT
	SOSVW	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	Q100758000	03-002B-0018-0000		
	SOSAM	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION		1	i	
721	577	ASSIGNMENT ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION				
68	<b>⊅6</b> Z	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY				
761	977	ASSIGNMENT ASSIGNMENT	HOPE NATURAL GAS COMPANY	EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY			ļ	
58T	912	TIGANIA TIGANIA STATEMENT TIGA	EQUITABLE GAS COMPANY	PITTSBURG AND WEST VIRGINIA GAS COMPANY				
TPT	58	ASSIGNMENT	PITTSBURG AND WEST VIRGINIA GAS COMPANY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA				ì
283	<del>                                    </del>	TUSAUSISSA	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	JAMES M. GUFFEY AND JOHN H. GALEY				
<b>7</b> 27	ΕΕ	NOT LESS THAN 1/8	A. W. WOODFORD AND GEO. MCGIRE	HUDSON BAILEY AND CHARLOTTE BAILEY, HIS WIFE				
750	984							
855	4£7 7£7	FARMOUT AGREEMENT ASSIGNMENT (68%)	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.				
1023	1	THIRD AMENDMENT TO MEMORANDUM OF	HG ENERGY II APPALACHIA, LLC	DAI MOISSIMARAST VEGERA MOIMINGO				
667	EZY	FARMOUT AGREEMENT	ווס בועבונט זו ארד אבאכוזוא, בבכ	DOMINION ENERGY TRANSMISSION, INC.				
1		SECOND AMENDMENT TO MEMORANDUM OF	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION INC		` <b> </b>	ĺ	
	SOSAM	MERGER/NAME CHANGE	DOMINATOR ENERGY TRANSMISSION, INC.	DOMINON TRANSMISSION, INC.			ì	
02٢	ZZ <i>L</i>	ASSIGNMENT MERGER/NAME CHANGE	DOMINION ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.				ł
T	717	TV3NUSI22A	NOBLE ENERGY, INC.	CUX GAS COMPANY LLC			İ	
848	217	PARTIAL ASSIGNMENT (32%)		DOMINION TRANSMISSION, INC.				<b>!</b>
ZS	1/89	LIMITED PARTIAL ASSIGNMENT (50%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	CUX GAS COMPANY LLC				l
†ST	749	MEMORANDUM OF FARMOUT AGREEMENT	NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.				
V.31	SOSVW	MERGER/NAME CHANGE	CNX GAS COMPANY LLC	CNG TRANSMISSION CORPORATION				
	SOSAM		DOMINION TRANSMISSION, INC.					
127	SZÞ	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	Ø700eee000	03-002C-0030-0000	EK025530	8 1
68	†6Z	PSSIGNMENT PEED PSSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	0009990010	03 0050 0030 0000	000030/13	
76T	977	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY				
58T	912	ASSIGNMENT	HOPE NATURAL GAS COMPANY	EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY				
TLE	172	ASSIGNMENT	EQUITABLE GAS COMPANY	PITTSBURG AND WEST VIRGINIA GAS COMPANY				·
678	321	DEED	PITTSBURG AND WEST VIRGINIA GAS COMPANY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA				1
141	28	ASSIGNMENT	PITTSBURG AND WEST VIRGINIA GAS COMPANY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA				
E82	74	ASSIGNMENT	PITTSBURG AND WEST VIRGINIA GAS COMPANY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA				
TZS		TVSIGNMENT	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	J. M. GUFFEY AND JNO. H. GALEY				
695	<b>77</b>	ASSIGNMENT	J. M. GUFFEY AND JNO. H. GALEY	FONIS BENNELL				
ÞT	7.4	PSSIGNMENT (1995)	J. M. GUFFEY AND JNO. H. GALEY	S. E. BARRETT		1		
ZTS	77	ASSIGNMENT (75%)	J. M. GUFFEY AND JNO. H. GALEY	LOUIS BENNETT AND S. E. BARRETT				
698	98	ASSIGNMENT (50%)	TONIS BENNELL	S. E. BARRETT		1		
322 732	SE SE	PSSIGNMENT AND AND AND AND AND AND AND AND AND AND	S. E. BARRETT	E' M' BOAD				
		NOT LESS THAN 1/8	E' M' BOAD	FIELDING B. RILEY AND SAMUEL M. RILEY AND M. V. RILEY				
077 855	987	ASSIGNMENT (68%)	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.			l	}
022	<b>₽</b> £7	FARMOUT AGREEMENT	не еиевеу іі АРРАLАСНІА, LLC	DOMINION ENERGY TRANSMISSION, INC.			1	1
664	C7/	THIRD AMENDMENT TO MEMORANDUM OF	075 6 20 20 20 20 20 20 20 20 20 20 20 20 20	IONI (NG IONI IONI IONI IONI IONI IONI IONI IO				l
000	EZY	FARMOUT AGREEMENT	не еиекву іі Аррадаснір, LLC	DOMINION ENERGY TRANSMISSION, INC.				
	COCAAA	SECOND AMENDMENT TO MEMORANDUM OF	10.11 (1.0.1001)				1	1
O/T	SOSAM	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINON TRANSMISSION, INC.			1	1
0 <u>/</u> T	727	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBEE ENERGY, INC.				l
0+0	<u> </u>	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	00075500775	0000-7500-2500-50	EK029418	. 6
848	717	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.	Q100352000	03-002C-003T-0000	EVOCOA19	1 " "
<u> </u>	<del>7</del> 89	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC			1	
†ST	7/9	MEMORANDUM OF FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.				
	SOSAM	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION			1	
L	SOSAM	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION				
721	57 <del>7</del>	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION		1	I	1

T2t	7/9	MEMORANDUM OF FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.	0009776000	T000-SZ00-8S00-E0	いってスプスプログラ	97	
100	SOSVW	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	0003220010	03-002B-0002E-0000	FK056567	1	
	SOSAM	MERGER/NAME CHANGE		CONSOLIDATED GAS TRANSMISSION CORPORATION		0000 3000 0300 00	Į	l	
721	SZÞ	ASSIGNMENT CHANGE	CONSOLIDATED GAS TRANSMISSION CORPORATION  CUG TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION			i		
68	<del>1</del> 67	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY				1	
737	ÞLΤ	ASSIGNMENT CONFIBMATORY DEED		PITTSBURGH AND WEST VIRGINIA GAS COMPANY				1	
TZE	122	DEED	HOPE NATURAL GAS COMPANY						
648	125	TNEMDISCA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY PITTSBURGH AND WEST VIRGINIA GAS COMPANY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA  THE PHILADELPHIA COMPANY OF WEST VIRGINIA					
TbI	28	· · · · · · · · · · · · · · · · · · ·							
318	£7	TSSIGNMENT	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA					
76T	tt	NOT LESS THAN 1/8 ASSIGNMENT	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	J. M. GUFFEY AND JOHN H. GALEY					
220	987		J. M. GUFFEY AND JOHN H. GALEY	F. M. MCKINLEY AND M. E. MCKINLEY, HIS WIFE					
8SS	45T	ASSIGNMENT (68%)	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.		i l		l l	
033	VEL	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.					
667	C7 /	THIRD AMENDMENT TO MEMORANDUM OF		ACTIVITIES OF THE STATE OF THE		l			
000	EZY	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.					
	SOSAM	SECOND AMENDMENT TO MEMORANDUM OF		TO THE PROPERTY OF THE PROPERT					
0 <b>/</b> T	ZZZ	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.		ì			
UZ I		ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.					
0+0	<u> </u>	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	22222	03-0028-0057-0000	ŁKO20755	53	
848	717	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.	Q100 <del>4</del> 93000	03-002B-0050-0000			
<u> </u>	<del>1</del> /89	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC					
7ST	7/9	MEMORANDUM OF FARMOUT AGREEMENT	CNX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.					
	SOSAM	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION			1		
ļ	SOSVW	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION					
177	574	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION		ł	1		
68	767	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY		Ì	<b>\</b>		
30	271	NOT LESS THAN 1/8	HOPE NATURAL GAS COMPANY	INCOMTETENT				1	
				GEORGE I. DAVISSON, BY COMMITTEE FOR JOHN T. BAILEY,			<u> </u>		
220	9£4	ASSIGNMENT (68%)	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.		]			
855	734	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.		1			
-	<del> </del>	THIRD AMENDMENT TO MEMORANDUM OF							
66 <del>1</del>	EST	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.		1		i	
		SECOND AMENDMENT TO MEMORANDUM OF					1	Į	
	SOSAM	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.			l .	ļ	
0/1	777	ASSIGNMENT	HG ENERGY II APPALACHIA, LLC	NOBLE ENERGY, INC.			1		
ī	<b>LTL</b>	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC	00050600TO 0000-6T00-8S			+300C0N1	
848	717	PARTIAL ASSIGNMENT (32%)	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	DOMINION TRANSMISSION, INC.		03-0028-0078-0000	FK056624	75	
رح د	<del>1</del> 89	LIMITED PARTIAL ASSIGNMENT (50%)	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC		Į.	EK021505		
T24	7/9	MEMORANDUM OF FARMOUT AGREEMENT	CUX GAS COMPANY LLC	DOMINION TRANSMISSION, INC.		ì		1	
	SOSVW	MERGER/NAME CHANGE	DOMINION TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION		1			
	SOSVW	MERGER/NAME CHANGE	CNG TRANSMISSION CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION		i			
721	425	ASSIGNMENT	CONSOLIDATED GAS TRANSMISSION CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION					
68	76Z	CONFIRMATORY DEED	CONSOLIDATED GAS SUPPLY CORPORATION	HOPE NATURAL GAS COMPANY		1	Ì	ì	
128	752	NOT LESS THAN 1/8	HOPE NATURAL GAS COMPANY	JASON G. BAILEY AND MINNIE E. BAILEY, HIS WIFE				}	
6 <b>7</b> £	TLT	NOT LESS THAN 1/8	HOPE NATURAL GAS COMPANY	OLIVE THOMAS				Į.	
58T	EST	NOT LESS THAN 1/8	HOPE NATURAL GAS COMPANY	HUNTER M. BENNETT AND MADGE BENNETT, HIS WIFE					
220	987	ASSIGNMENT (68%)	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.			ļ		
855	<b>₽</b> £7	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.		1	1	{	
		THIRD AMENDMENT TO MEMORAUDUM OF				1	1		
661	FZT	FARMOUT AGREEMENT	HG ENERGY II APPALACHIA, LLC	DOMINION ENERGY TRANSMISSION, INC.		1		i	
		SECOND AMENDMENT TO MEMORANDUM OF				1	1		
	SOSVW	MERGER/NAME CHANGE	DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.			1		
I	LTL	ASSIGNMENT	NOBLE ENERGY, INC.	CNX GAS COMPANY LLC		1	1	1	

1	1 1/07/07/01-7	03-005B-0025-0002	Ī	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
1		03-0036-0023-0002		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
<u> </u>				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
1				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
				DOMINION TRANSMISSION, INC.	BOWINION ENERGY THATCHISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSINISSION, INC.	NO ENERGY IF ALT ADACTING LEC	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
				J. A. WHITE AND J. ALICE WHITE, HIS WIFE	LOUIS BENNETT	NOT LESS THAN 1/8	39	70
				J. A. WHITE AND J. ALICE WHITE, HIS WIFE	HOPE NATURAL GAS COMPANY AND LOUIS BENNETT	MODIFICATION OF LEASE	52	465
				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	
}		03-005A-0013-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		03-005A-0014-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
		03-005A-0015-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
30	EK003614	03-005B-0026-0000	Q100365000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
36	FK002814	03-005B-0027-0000	Q100303000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
		20-0442-0005-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
1		p/o 20-442-0004-0001			DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
		p/o 20-422-0029-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	SECOND AMENDMENT TO MEMORANDUM OF		
		·		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSIVISSION, INC.	THE ENERGY IF ALT ALACTIA, ELC	THIRD AMENDMENT TO MEMORANDUM OF		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	734	558
1				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				GUFFEY OIL AND GAS ROYALTIES, INC (Q143841001)	E. DAVISSON HARDMAN	NOT LESS THAN 1/8 (171 ACRES)	388	65
	FK066192 DAD36977	03-005A-0008-0000 03-005A-0009-0000 03-005A-0010-0000 03-005A-0012-0000 03-005A-0012-0001 20-0442-0001-0000 20-0442-0001-0000	-005A-0009-0000 -005A-0010-0000 -005A-0012-0000 -005A-0012-0001 -0442-001-0000 Q143841001 Q143841002	EARL FREEMAN (Q143841002)	E. DAVISSON HARDMAN	NOT LESS THAN 1/8 (104 ACRES)	395	553
				CENTRAL-PITTSBURGH COAL CORPORATION	E. DAVISSON HARDMAN	NOT LESS THAN 1/8 (10 ACRES)	1113	98
				OWEN J. SCHMITT (Q098904000)	CNX GAS COMPANY	NOT LESS THAN 1/8 (7.53 ACRES)	700	70
				E. DAVISSON HARDMAN	J. ROBERT HORNOR	ASSIGNMENT (388/65 & 395/553)	1111	791
				E. DAVISSON HARDMAN	J. ROBERT HORNOR	ASSIGNMENT (1113/98)	1117	375
				E. DAVISSON HANDWAN	J. NODERT HOMEON		HARRISON 1118	331
				J. ROBERT HORNOR	STONEWALL GAS COMPANY	ASSIGNMENT (388/65 & 395/553)	LEWIS 408	636
				J. ROBERT HORNOR	STONEWALL GAS COMPANY	ASSIGNMENT (1113/98)	HARRISON 1118	876
37				J. ROBERT HORNOR	STONEWALE GAS COMPANY	7.65.6.1.1.1.1.1 (====7.5.5)		
			Q098904000	JESSE PAUL BURNSIDE AND BETTY BURNSIDE, HUSBAND AND WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8 (32.61 ACRES)	421	256
i		20-0442-0001-0000		STONEWALL GAS COMPANY	DOMINION APPALACHIAN DEVELOPMENT INC.	MERGER/NAME CHANGE	59	1086
		20-0442-0003-0000		DOMINION APPALACHIAN DEVELOPMENT LLC	CONSOL GAS RESERVES INC	MERGER/NAME CHANGE	wvsos	
1		20-0442-0003-0000		CONSOL GAS RESERVES, INC.	CONSOL GAS COMPANY	MERGER/NAME CHANGE	59	961
1				CONSOL GAS RESERVES, INC.	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	wvsos	1
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (700/70) (388/65) (395/553)	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (388/65) (395/553)	727	765
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (700/70)	722	
	CNX140236000	03-005A-0006-0000	CNX140236000	DOVENER C. BURNSIDE AND DORTHA M. BURNSIDE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	238	431
				DOVENER C. BURNSIDE AND DORTHA M. BURNSIDE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	237	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	
39				CONSOLIDATED GAS SUPPLY CORPORATION  CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	wvsos	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	wvsos	
] j				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	ASSIGNMENT	658	715
l				DOMINION TRANSMISSION, INC.				

1	1 1			CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	776	976
	CNX298566000	20-0421-0044-0000 20-0421-0044-0001 20-0421-0044-0003	PIONEER PETROLEUM INC E. DAVISSON HARDMAN J. ROBERT HORNOR ASSIGNMENT J. ROBERT HORNOR J. ROBERT HORNOR ASSIGNMENT J. ROBERT HORNOR J. ROBERT HORNOR J. ROBERT HORNOR J. ROBERT HORNOR J. ROBERT HORNOR ASSIGNMENT DOMINION APPALACHIAN DEVELOPMENT INC. MERGER/NAME CH DOMINION APPALACHIAN DEVELOPMENT LLC DOMINION APPALACHIAN DEVELOPMENT LLC DOMINION APPALACHIAN DEVELOPMENT LLC CONSOL GAS APPALACHIAN DEVELOPMENT LLC CONSOL GAS APPALACHIAN DEVELOPMENT LLC MERGER/NAME CH MERGER/NAME CH	WILLIAM A. BOOTH AND EVELYN Y. BOOTH, HIS WIFE	PIONEER PETROLEUM INC	NOT LESS THAN 1/8	899	226
				PIONEER PETROLEUM INC	E. DAVISSON HARDMAN	ASSIGNMENT	1099	825
				E. DAVISSON HARDMAN	J. ROBERT HORNOR	ASSIGNMENT	1094	879
				J. ROBERT HORNOR	STONEWALL GAS COMPANY	ASSIGNMENT	1097	844
				STONEWALL GAS COMPANY	DOMINION APPALACHIAN DEVELOPMENT INC.	MERGER/NAME CHANGE	59	1086
50				DOMINION APPALACHIAN DEVELOPMENT INC	DOMINION APPALACHIAN DEVELOPMENT LLC	MERGER/NAME CHANGE	59	1335
1				DOMINION APPALACHIAN DEVELOPMENT LLC	CONSOL GAS APPALACHIAN DEVELOPMENT LLC	MERGER/NAME CHANGE	59	936
				MERGER/NAME CHANGE	1472	294		
				CONSOL GAS RESERVES, INC.	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	1472	294
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1722	728

Office of Oil and Gas

JUL 1.8 2022

WV Department of Environmental Protection

JUL 1,8 2022

We repartment of Environmental Protection



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

June 29, 2022

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

RE: Vaneck 1215 N-6H Drill Permit Revision Request – (47-041-05730)

Freeman's Creek District, Lewis County

West Virginia

Dear Mr. Blevins -

Per our discussions, enclosed are revised forms (survey plat, mylar, WW-6B, casing schematic) and a check for expedited service for the 1215 N-6H well work permit revision request. We ask the permit be modified as the lateral has been revised.

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

CHECK# 31721 \$5,000 7/1/22

RECEIVED
Office of Oil and Gas

JUL 18 2022

WV Department of Environmental Protection

Enclosures

cc:

Sam Ward - WV DEP State Inspector

## **Expedited Permit Modification**

Received date: 7/18/22	Expedited Final Date:	
Operator:	Well Name: N- Lot	
Pad Name: Vanock	API: 41-05720	

	MODIFIED PERMIT	ORIGINAL PERMIT
TVD	V	6789
TMD	22.800	23,207
HL	14,260	14,484
FW		60,214,600,861
SW	~	1605
COAL	<b>⊢</b>	272,700,1040,1150
CONDUCTOR	V	120
FRESHWATER		1200
INTERMEDIATE 1		2250
INTERMEDIATE 2	V	4180
PRODUCTION	22,800	23207

Notes:		 	 
		 	 -