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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, August 14, 2023  
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-1H  
47-041-05732-00-00

**Lateral Extension**

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.



James A. Martin  
Chief

Operator's Well Number: Vaneck 1215 N-1H  
Farm Name: HG ENERGY II APPALACHIA, LLC et al  
U.S. WELL NUMBER: 47-041-05732-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 08/14/2023

Promoting a healthy environment.

08/18/2023

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

1) Well Operator: HG Energy II Appalachia, LLC 494519932 Lewis Freeman Camden 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: Vaneck 1215 N-1H Well Pad Name: Vaneck 1215

3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: Mare Run Rd at CR 10 / 9

4) Elevation, current ground: 1259' Elevation, proposed post-construction: 1254.8'

5) Well Type (a) Gas x Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow x Deep \_\_\_\_\_  
Horizontal x

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus at 7015'/7088' and 73' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7,087'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28,431'

11) Proposed Horizontal Leg Length: 19,742'

12) Approximate Fresh Water Strata Depths: 60', 214', 600', 861'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-02173, 0693, 0236, 2308, 0578 )

14) Approximate Saltwater Depths: 1605'

15) Approximate Coal Seam Depths: 272', 700', 1040', 1150' (Surface casing is being extended to cover the coal in the DTI Field)

16) Approximate Depth to Possible Void (coal mine, karst, other): None

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No X

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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4704105732

WW-6B  
(04/15)

API NO. 47-  
OPERATOR WELL NO. Vaneck 1215 N-1H  
Well Pad Name: Vaneck 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	6180'	6180' ✓	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	28431'	28431' ✓	20% Excess Tail, CTS
Tubing							
Liners							

✓ Kenneth Greynolds  
Digitally signed by: Kenneth Greynolds  
 DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD O = WVDEP OU = Oil and Gas  
 Date: 2023.08.03 08:10:13 -0400

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 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
Production	5 1/2"	8 1/2"	.415	16240	12500 ✓	Type 1/Class A	20% excess yield = 1.10, tail yield 1.05
Tubing							
Liners							

PACKERS

Kind:				RECEIVED Office of Oil and Gas AUG 8 2023 WV Department of Environmental Protection
Sizes:				
Depths Set:				

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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 7087'. Drill horizontal leg to estimated 19,742' lateral length, 28,431' 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 - 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 / D096 1.5 lb per 88L ComNET\* - 60% Excess15.9 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\*  
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 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.  
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

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\*Note: Attach additional sheets as needed.

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**1215 N-1H  
Marcellus Shale Horizontal  
Lewis County, WV**

14205518.98N 1768662.82E  
14205253.53N 1765613.37E  
14223847.13N 1759023.73E

\*\*\* 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)  
B34B - 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

1215 N-1H SHL  
1215 N-1H LP  
1215 N-1H BHL

1254.8'  
340.689°

Ground Elevation  
Azim

WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
											GEOMETRY
	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" wall thickness	
	26"	20" 94# J-55	Fresh Water Kittaning Coal Fresh Water Protection	0	214, 600, 861 905	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi	
	17.5"	13-3/8" 68# J-55 BTC	Little Lime Big Lime Injun / Gantz (Storage) Intermediate 1	1694 1741 1818 / 2073	1714 1818 1904 / 2125	AIR / KCL Salt Polymer	See above (LEFT) for Storage String Cement Blend to Meet DTI Requirements for Gas Storage Field Isolation	Bow Spring on every joint <i>*will also be running ACP for isolating storage zone*</i>	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480" wall thickness Burst=3450 psi	
				Thirty Foot	2274	2286					
				Gordon Stray / Gordon	2320 / 2346	2338 / 2446					
				5th Sand	2590	2612					
				Bayard	2660	2675	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=5750 psi
				Speechley	3287	3301					
				Banson	4599	4615					
				Alexander / Elk	4930 / 5540	5100 / 5600					
				Intermediate 2	0	TVD: 5650' MD: 6180' Inc: 37 deg.					
		8.75"					AIR / 9.0ppg SOB	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	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.	Production casing = 0.415" wall thickness Burst=16240 psi Note: Actual centralizer schedules may be changed due to hole conditions
		8.5" Curve	5-1/2" 23# P-110 HP CDC HTQ	Rhinestreet Cashaqua Middlesex West River Burkett Tully Limestone	6203 6444 6650 6734 6831 6864	6444 6650 6734 6831 6864		Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the curve.		
		8.5" Lateral		Hamilton Marcellus TMD / TVD (Production) Onondaga	6950 7015 28431 7088	6950 6753 7088	11.5ppg-12.5ppg SOB				

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LP @ 7087' TVD / 8669' MD  
8.5" Hole - Cemented Long String  
5-1/2" 23# P-110 HP CDC HTQ  
+/-19742' ft Lateral  
TD @ +/-7087' TVD +/-28431' MD  
X=Centralizers



EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:  
**VANECK 1215 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H & N-6H**

08/16/2023

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300335	Harrison	C A Coffindaffer Hrs	Eastern Gas Transmission & Storage, Inc.	Fifth	Gas w/ Oil Show	3000	PLUGGED	39.166973	-80.574796
2	4703301770	Harrison	J D Hitt	Core Solutions LLC	Gordon Stray	Oil and Gas	2666	ACTIVE	39.171440	-80.561419
3	4703302173	Harrison	J&D Delabrida	Braxton Oil & Gas Co.	Alexander	Gas	5627	Abandoned	39.171520	-80.579681
4	4703302678	Harrison	K W Coffindaffer	Tennmile Land, LLC	Alexander	House Gas	5550	ABANDONED	39.163980	-80.558063
5	4703302690	Harrison	Oran A Post	Diversified Production LLC	Greenland Gap Fm	Gas	5463	ACTIVE	39.167962	-80.555643
6	4703302691	Harrison	Oran A Post	Diversified Production LLC	Greenland Gap Fm	Gas	5500	ACTIVE	39.170718	-80.560114
7	4703302721	Harrison	Robert B Weiman	Tennmile Land, LLC	Alexander	Gas	5081	ACTIVE	39.163785	-80.568309
8	4703302754	Harrison	Robert B Weiman	Tennmile Land, LLC	Alexander	Oil and Gas	5389	ACTIVE	39.166893	-80.572517
9	4703302755	Harrison	Robert B Weiman	Tennmile Land, LLC	Alexander	Oil and Gas	5520	ACTIVE	39.170525	-80.569613
10	4703305378	Harrison	Ray Mosser Jr	Alliance Petroleum Co. LLC	Greenland Gap Fm	Oil and Gas	4010	ACTIVE	39.161053	-80.555241
11	4703305812	Harrison	John E Tyler	Diversified Resources, Inc.	UNKNOWN	not available	-	UNKNOWN	39.167992	-80.581201
12	4703330207	Harrison	Harvey Morris	South Penn Oil Co.	Hampshire Grp	Oil	3021	PLUGGED	39.161822	-80.566082
13	4703330224	Harrison	Luetta Bowen	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil and Gas	2707	PLUGGED	39.167494	-80.563286
14	4703330721	Harrison	A. A. Bailey	South Penn Oil (S. Penn Nat. Gas)	Gordon	Oil and Gas	2690	PLUGGED	39.173444	-80.560678
15	4703330722	Harrison	Howard Marts	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil	2598	PLUGGED	39.168364	-80.560118
16	4703330792	Harrison	J B Coffindaffer	Hope Natural Gas Company	Hampshire Grp	Gas	2857	PLUGGED	39.162983	-80.569250
17	4703331035	Harrison	William Moses	Moses, William	Gordon Stray	Oil	2660	PLUGGED	39.160956	-80.555326
18	4703331146	Harrison	G N Simons	Hope Natural Gas Company	Hampshire Grp	Gas	2827	PLUGGED	39.168364	-80.583525
19	4703331204	Harrison	A A Bailey	Bradford Supply Co.	Hampshire Grp	Oil	2714	PLUGGED	39.173735	-80.562914
20	4703331209	Harrison	Tillman Clemens	Bradford Supply Co.	Gordon	Oil	2592	PLUGGED	39.160742	-80.561692
21	4703331210	Harrison	J B Coffindaffer	Bradford Supply Co.	Gordon Stray	Oil	2775	PLUGGED	39.165157	-80.565792
22	4703331221	Harrison	Mollie Marts	Bradford Supply Co.	Hampshire Grp	Oil	2686	PLUGGED	39.170252	-80.561423
23	4703331235	Harrison	Minerva Walker	Bradford Supply Co.	Gordon Stray	Gas	2778	PLUGGED	39.169381	-80.567386
24	4703331379	Harrison	J D Hitt	Bradford Supply Co.	Hampshire Grp	Oil	2787	PLUGGED	39.171122	-80.566268
25	4703331548	Harrison	R T Lowndes	Hope Natural Gas Company	Hampshire Grp	Gas	2933	PLUGGED	39.172603	-80.577069
26	4703331569	Harrison	Goynor Wise	Moses, William	Gordon Stray	Gas	2778	PLUGGED	39.168655	-80.565895
27	4703331710	Harrison	Homer Hitt	Oper In Min. owner fld, no code assign(Orphan well pr	Hampshire Grp	Gas	3028	PLUGGED	39.173954	-80.568006
28	4703331798	Harrison	Burgess Morris	Jackson, Richard C.	UNKNOWN	not available	-	PLUGGED	39.166104	-80.564061
29	4704100013	Lewis	NOTE: THIS WELL IS MAPPED BY SENECA TECHNOLOGIES AND IS SHOWN ON THE PERMIT PLAT BUT NO FIELD EVIDENCE OF IT WAS FOUND AND NO DATA EXISTS FOR IT IN THE WVGES 2020 DATA SET	Domion Energy Transmission, Inc.	Hampshire Grp	Storage	2361	ACTIVE	39.125388	-80.536900
30	4704100205	Lewis	Flossie Riley	Domion Energy Transmission, Inc.	Gantz	Storage	2110	ACTIVE	39.122361	-80.541592
31	4704100236	Lewis	F B Riley	Domion Energy Transmission, Inc.	Gantz	Storage	2322	ACTIVE	39.134608	-80.552219
32	4704100239	Lewis	George C Francis	Domion Energy Transmission, Inc.	Fifth	Storage	2556	PLUGGED	39.132001	-80.544329
33	4704100255	Lewis	J T Bailey	Hope Natural Gas Company	Gordon Stray	Storage	2435	PLUGGED	39.129980	-80.546426



35	4704100262	Lewis	Olive Thoms	Dominion Energy Transmission, Inc.	Thirty-foot	Storage	2370	ACTIVE	39.127821	-80.544402
36	4704100266	Lewis	L E Gall	Hope Natural Gas Company	Gantz	Storage	2346	PLUGGED	39.13691	-80.555985
37	4704100267	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Gantz	Storage	2240	ACTIVE	39.13380	-80.557303
38	4704100335	Lewis	J T Bailey	Hope Natural Gas Company	Up Devonian	Storage	2341	PLUGGED	39.130708	-80.544729
39	4704100343	Lewis	E Haney	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2312	ACTIVE	39.122570	-80.556467
40	4704100358	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2767	ACTIVE	39.131939	-80.560943
41	4704101233	Lewis	Jacob Freeman Heirs	Diversified Resources, Inc.	Fifth	Oil and Gas	2796	ACTIVE	39.155255	-80.559765
42	4704101246	Lewis	L E Gall	Hope Natural Gas Company	Thirty-foot	Storage	2594	PLUGGED	39.139103	-80.555840
43	4704101296	Lewis	E L Haney	UNKNOWN	Gantz	Storage	2610	PLUGGED	39.124106	-80.559535
44	4704101483	Lewis	D C Burnside	Diversified Resources, Inc.	Suaw	Gas w/ Oil Show	2102	ACTIVE	39.155880	-80.552790
45	4704101501	Lewis	E Freeman	Pioneer Petroleum, Inc.	Squaw	Dry	2100	PLUGGED	39.148652	-80.567749
46	4704101578	Lewis	W A Booth	Diversified Resources, Inc.	Gordon	Gas	2674	ACTIVE	39.158031	-80.550804
47	4704101630	Lewis	W S Bennett	Dominion Energy Transmission, Inc.	Gantz	Storage	2368	PLUGGED	39.138805	-80.558116
48	4704101641	Lewis	Jack E Waggoner	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4703	ACTIVE	39.115940	-80.543809
49	4704101761	Lewis	William Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4760	ACTIVE	39.114437	-80.558559
50	4704101793	Lewis	Burnside & Freeman	Stephen Gas Company	Benson	Gas w/ Oil Show	4705	ACTIVE	39.133754	-80.545894
51	4704101796	Lewis	David A Caynor	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4755	ACTIVE	39.120257	-80.549412
52	4704101807	Lewis	E L Hanley	Eastern Gas Transmission & Storage, Inc.	Benson	Storage	4876	ACTIVE	39.121790	-80.559398
53	4704101900	Lewis	Burnside & Freeman	Stephen Gas Company	Big Injun (Gmbr)	Oil and Gas	1988	ACTIVE	39.135288	-80.545022
54	4704101966	Lewis	Brent Maxwell	Eastern Gas Transmission & Storage, Inc.	Gordon	Dry	2896	PLUGGED	39.154711	-80.578247
55	4704102173	Lewis	Woody Lumber Co Inc	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4746	ACTIVE	39.121674	-80.543631
56	4704102184	Lewis	M C Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4848	ACTIVE	39.116787	-80.536540
57	4704102303	Lewis	Orpha D Waggoner	Eastern Gas Transmission & Storage, Inc.	Benson	Oil and Gas	4777	ACTIVE	39.115272	-80.549389
58	4704102308	Lewis	F Riley	Eastern Gas Transmission & Storage, Inc.	Gordon	Gas	2393	ACTIVE	39.119736	-80.543167
59	4704102309	Lewis	J S Burnside	Dominion Energy Transmission, Inc.	not available	Gas	2591	PLUGGED	39.148560	-80.558603
60	4704102579	Lewis	Sarepta Nutter	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.130324	-80.566303
61	4704102580	Lewis	J R H Straley	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.132532	-80.566249
62	4704102588	Lewis	Minor J Hall	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2350	ACTIVE	39.119939	-80.561694
63	4704102603	Lewis	W Burnside	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.114018	-80.556711
64	4704102605	Lewis	T J Halterman	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.119907	-80.558232
65	4704102608	Lewis	G W Waggoner	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2296	ACTIVE	39.117018	-80.554880
66	4704102611	Lewis	George C Francis	Dominion Energy Transmission, Inc.	not available	Storage	2350	ACTIVE	39.134562	-80.555238
67	4704102612	Lewis	S Minter Heirs	Dominion Energy Transmission, Inc.	not available	Storage	2273	ACTIVE	39.122318	-80.551705
68	4704102613	Lewis	Caroline Minter	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2622	ACTIVE	39.128385	-80.546842
69	4704102615	Lewis	Geo C Francis	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.131662	-80.553225
70	4704102662	Lewis	Francis M McKinley	Hope Natural Gas Company	not available	not available	-	ABANDONED	39.137318	-80.554891
71	4704102663	Lewis	Francis M McKinley	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.135429	-80.553660

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72	4704102664	Lewis	Francis M McKinley	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.138758	-80.554200
73	4704102665	Lewis	W S Bennett	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.140144	-80.555951
74	4704102666	Lewis	Norman S Small	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2673	ACTIVE	39.135586	-80.556008
75	4704102667	Lewis	L E Gall	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.137633	-80.558097
76	4704102668	Lewis	L E Gall	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.133096	-80.559857
77	4704102669	Lewis	L E Gall	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.133045	-80.562280
78	4704102670	Lewis	B J & B E Rhoades	Dominion Energy Transmission, Inc.	Hampshire Grp	Observation	2141	ACTIVE	39.127182	-80.554537
79	4704102671	Lewis	L E Gall	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.132416	-80.557967
80	4704102672	Lewis	L E Gall	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.129634	-80.563098
81	4704102697	Lewis	J A Fox	Fuharty Enterprises, Inc.	UNKNOWN	not available	-	XABANDONED	39.154720	-80.550106
82	4704102726	Lewis	E W Waggoner	UNKNOWN	Hampshire Grp	Gas	2435	PLUGGED	39.113030	-80.551358
83	4704102770	Lewis	Sheldon Minter	Dominion Energy Transmission, Inc.	undetermined unit	Storage	2232	ACTIVE	39.123651	-80.552733
84	4704102836	Harrison	Robert B Weirman	Tennile Land, LLC	EIK	Oil and Gas	5730	ACTIVE	39.174811	-80.570185
85	4704102849	Lewis	Francis McKinley	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.136993	-80.554712
86	4704102850	Lewis	L E Gall et al	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	Storage	-	ACTIVE	39.135334	-80.558905
87	4704102955	Lewis	Zella Curry	Alliance Petroleum Co. LLC	Alexander	Gas	5353	ACTIVE	39.155188	-80.560862
88	4704102956	Lewis	James E Elmer	Diversified Resources, Inc.	Alexander	Oil and Gas	5431	ABANDONED	39.158129	-80.552007
89	4704102966	Lewis	Ralph Pitzer	Alliance Petroleum Co. LLC	Greenland Gap Fm	Oil and Gas	5535	ACTIVE	39.153691	-80.570456
90	4704103100	Lewis	Marjorie Hyatt	Dominion Energy Transmission, Inc.	Big Injun (Gmbr)	Oil w/ Gas Show	2075	ACTIVE	39.116597	-80.549618
91	4704103173	Lewis	Onpha Waggoner	Consolidated Gas Supply Corp.	Benson	Dry	2089	PLUGGED	39.117125	-80.546833
92	4704103343	Lewis	R B Weirman	Diversified Resources, Inc.	Greenland Gap Fm	Oil and Gas	5058	ACTIVE	39.166953	-80.578187
93	4704103958	Lewis	James W Wagner et al	Diversified Resources, Inc.	Fifth	Gas	3131	ACTIVE	39.150039	-80.550957
94	4704104722	Lewis	W S Bennett	Dominion Energy Transmission, Inc.	not available	Gas	2752	PLUGGED	39.140307	-80.560812
95	4704104753	Lewis	Allegheny Wood Products	Dominion Energy Transmission, Inc.	not available	not available	-	PLUGGED	39.137362	-80.551309
96	4704104784	Lewis	Troy/D Rickles	Eastern Gas Transmission & Storage, Inc.	UNKNOWN	not available	-	PLUGGED	39.141896	-80.567142
97	4704104976	Lewis	Phillip Burnside	Mountain V Oil and Gas, Inc.	Alexander	Gas	5600	ACTIVE	39.150796	-80.573408
98	4704105165	Lewis	J Todd Hatfield	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4910	ACTIVE	39.147356	-80.554526
99	4704105481	Lewis	Jerry Tomes	Diversified Resources, Inc.	Hampshire Grp	Oil and Gas	3300	ACTIVE	39.154425	-80.566885
100	4704105688	Lewis	John E Tyler	Diversified Resources, Inc.	-	-	-	NEVER DRILLED	39.165574	-80.582408
101	4704130007	Lewis	L E Gall	Hope Construction & Refining	not available	not available	-	PLUGGED	39.128685	-80.555511
102	4704130014	Lewis	Stella Freeman Hrs	South Penn Oil Co.	Gordon Stray	Oil	2778	PLUGGED	39.152835	-80.564021
103	4704130020	Lewis	S M Burnside	South Penn Oil Co.	Greenland Gap Fm	Oil and Gas	3675	PLUGGED	39.151820	-80.561972
104	4704130021	Lewis	J L Freeman	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	3038	PLUGGED	39.155010	-80.563649
105	4704130067	Lewis	L O Stutler	Pittsburgh & WV Gas	Gordon	Oil and Gas	2411	PLUGGED	39.129342	-80.556751
106	4704130070	Lewis	William Furley	Pittsburgh & WV Gas	Hampshire Grp	Gas	2760	PLUGGED	39.143699	-80.562714
107	4704130076	Lewis	Ray & Delpha Holden	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil	2869	PLUGGED	39.128893	-80.563980
108	4704130103	Lewis	Earl Freeman	South Penn Oil Co.	Hampshire Grp	Oil	2782	PLUGGED	39.151384	-80.564765

08/16/2023



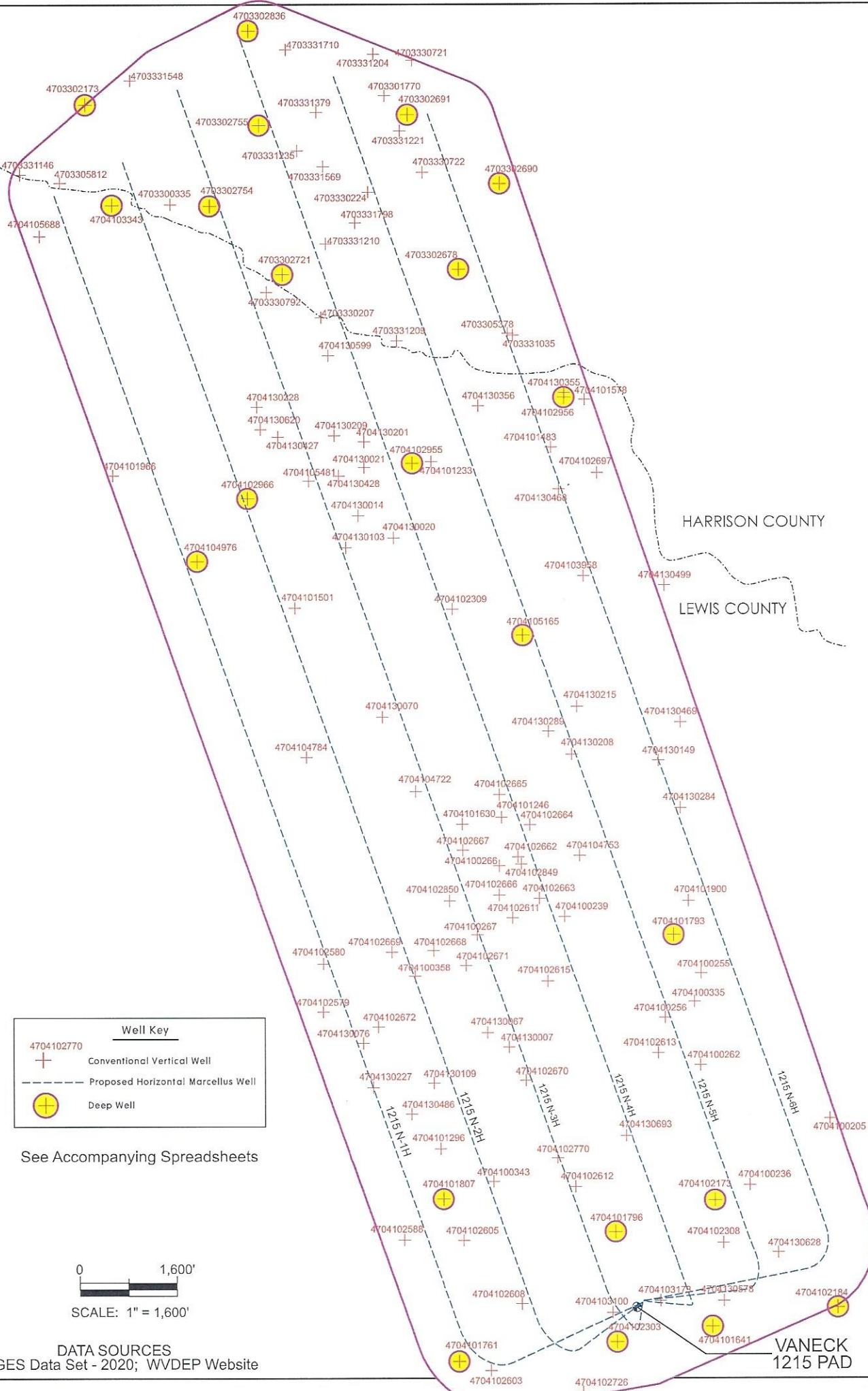
109	4704130109	Lewis	F M McKinley	Federal Oil Co.	UNKNOWN	not available	not available	2909	PLUGGED	39.12708	-80.559901
110	4704130149	Lewis	F M McKinley	Douglas, Septer W.	not available	not available	not available	-	PLUGGED	39.14166	-80.546698
111	4704130201	Lewis	J L Freeman	UNKNOWN	not available	not available	not available	-	PLUGGED	39.15617	-80.563649
112	4704130208	Lewis	Enn Bailey	Atha Supply Company	not available	not available	not available	-	PLUGGED	39.14195	-80.551726
113	4704130209	Lewis	Jacob L Freeman Bros	South Penn Oil Co.	Gordon Stray	Oil and Gas	Oil and Gas	2580	PLUGGED	39.15646	-80.565381
114	4704130215	Lewis	Lella Grace	South Penn Oil Co.	Hampshire Grp	Oil	Oil	2846	PLUGGED	39.144134	-80.551402
115	4704130227	Lewis	Ray & Delphia Holden	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil and Gas	Oil and Gas	2932	PLUGGED	39.126897	-80.563418
116	4704130228	Lewis	Chas A Coffindaffer	South Penn Oil Co.	Gordon	Oil	Oil	2736	PLUGGED	39.157765	-80.569853
117	4704130284	Lewis	Francis M McKinley	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	Oil and Gas	2821	PLUGGED	39.139493	-80.545440
118	4704130289	Lewis	John S Burnside	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	Oil and Gas	2818	PLUGGED	39.143008	-80.553062
119	4704130355	Lewis	William Moses	Moses, William	Fifth	Oil	Oil	2806	PLUGGED	39.158346	-80.551972
120	4704130356	Lewis	William Moses	Moses, William	Gordon Stray	Oil	Oil	2805	PLUGGED	39.157765	-80.557000
121	4704130427	Lewis	Mrs Alona May Lowman	Bradford Supply Co.	Gordon Stray	Gas	Gas	2702	PLUGGED	39.156412	-80.568647
122	4704130428	Lewis	Mrs Alona May Lowman	Bradford Supply Co.	Gordon Stray	Oil	Oil	2594	PLUGGED	39.154630	-80.565145
123	4704130468	Lewis	J A Fox	Bradford Supply Co.	Hampshire Grp	Gas	Gas	2850	PLUGGED	39.153995	-80.552341
124	4704130469	Lewis	Alice White	Bradford Supply Co.	Hampshire Grp	Oil	Oil	2850	PLUGGED	39.143409	-80.545395
125	4704130486	Lewis	Serepta Nutter	South Penn Oil (S. Penn Nat. Gas)	Hampshire Grp	Oil	Oil	2914	PLUGGED	39.125691	-80.561211
126	4704130499	Lewis	J A Fox	South Penn Oil Co.	Hampshire Grp	Oil	Oil	2793	PLUGGED	39.149595	-80.546272
127	4704130578	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas	Gas	2602	PLUGGED	39.117115	-80.543159
128	4704130599	Lewis	U A Morris	Bradford Supply Co.	Gordon Stray	Oil	Oil	2707	PLUGGED	39.160086	-80.565700
129	4704130620	Lewis	J L Freeman	Hal Pack & Company	Hampshire Grp	Oil	Oil	2619	PLUGGED	39.156750	-80.569666
130	4704130628	Lewis	Fortunatus White	Hope Natural Gas Company	not available	not available	not available	2702	not available	39.119287	-80.539976
131	4704130693	Lewis	Shelton Minter Hrs	Hope Natural Gas Company	Hampshire Grp	Gas	Gas	2594	PLUGGED	39.124556	-80.548745

08/18/2023

YELLOW DENOTES WELL WITH TVD > 4,500' DENOTES SURVEYED WELL COORDINATES

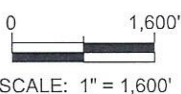
SOURCE: WVGES DATASET (2020) and WVDEP WEBSITE AND FIELD SURVEYS

UPDATED 12/5/2022



Well Key	
	Conventional Vertical Well
	Proposed Horizontal Marcellus Well
	Deep Well

See Accompanying Spreadsheets



DATA SOURCES  
WVGES Data Set - 2020; WVDEP Website

Area of Review for:

### VANECK 1215 NORTH UNIT

- Proposed 1215 N-1H
- Proposed 1215 N-2H
- Proposed 1215 N-3H
- Proposed 1215 N-4H
- Proposed 1215 N-5H
- Proposed 1215 N-6H

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

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

08/18/2023





11,347' to Bottom Hole

1,801' to Top Hole

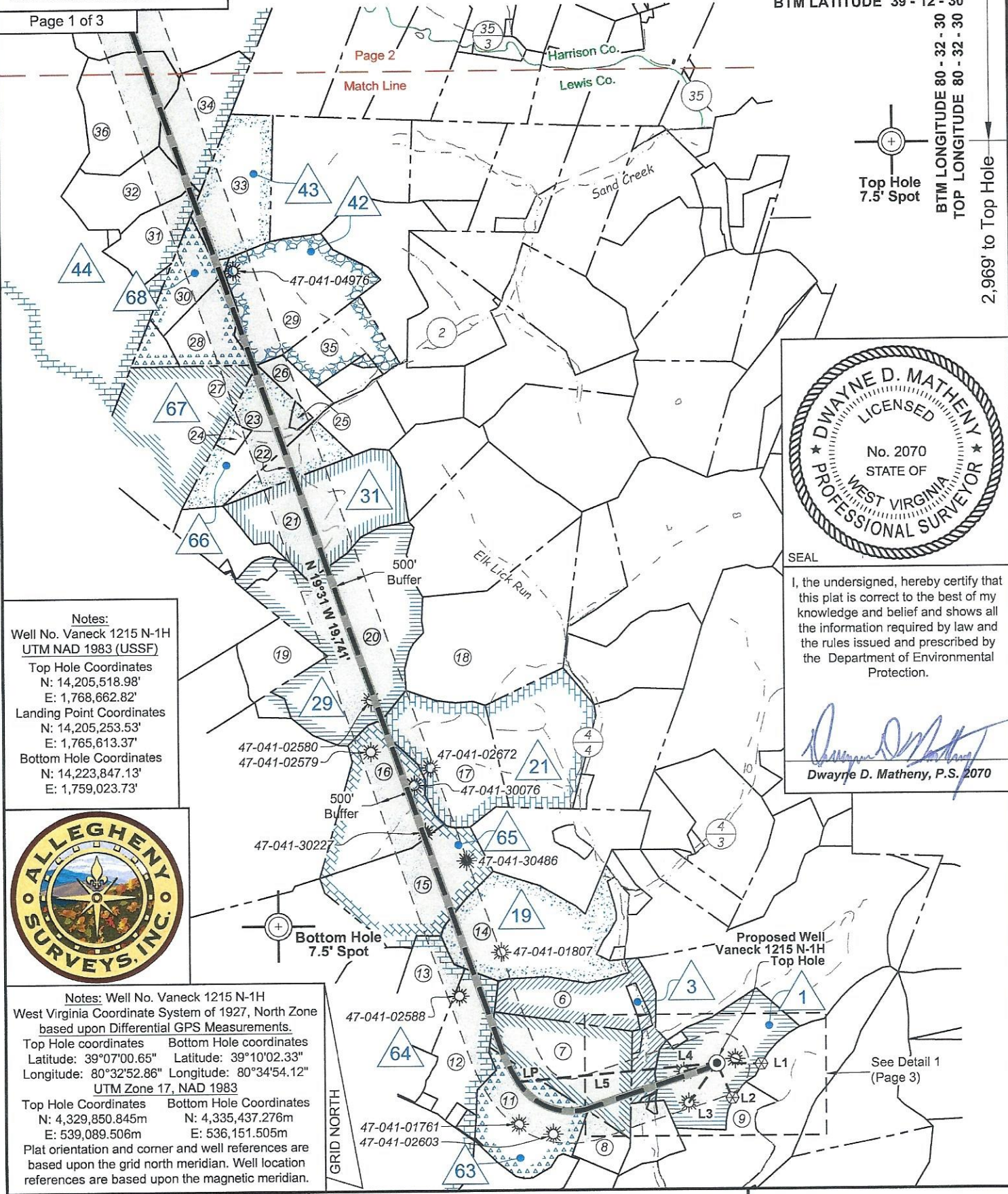
HG Energy II Appalachia, LLC  
Well No. Vaneck 1215 N-1H MOD

TOP LATITUDE 39 - 07 - 30  
BTM LATITUDE 39 - 12 - 30

Page 1 of 3

BTM LONGITUDE 80 - 32 - 30  
TOP LONGITUDE 80 - 32 - 30

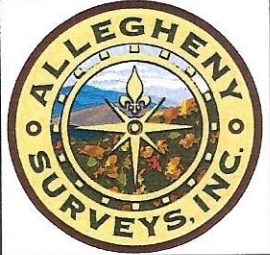
14,934' to Bottom Hole



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Dwayne D. Matheny*  
Dwayne D. Matheny, P.S. 2070

Notes:  
Well No. Vaneck 1215 N-1H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,205,518.98'  
E: 1,768,662.82'  
Landing Point Coordinates  
N: 14,205,253.53'  
E: 1,765,613.37'  
Bottom Hole Coordinates  
N: 14,223,847.13'  
E: 1,759,023.73'



Notes: Well No. Vaneck 1215 N-1H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°07'00.65" Latitude: 39°10'02.33"  
Longitude: 80°32'52.86" Longitude: 80°34'54.12"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,329,850.845m N: 4,335,437.276m  
E: 539,089.506m E: 536,151.505m  
Plat orientation and corner and well references are  
based upon the grid north meridian. Well location  
references are based upon the magnetic meridian.

FILE NO: 156-36-UFC-20  
DRAWING NO: Vaneck 1215 N-1H 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

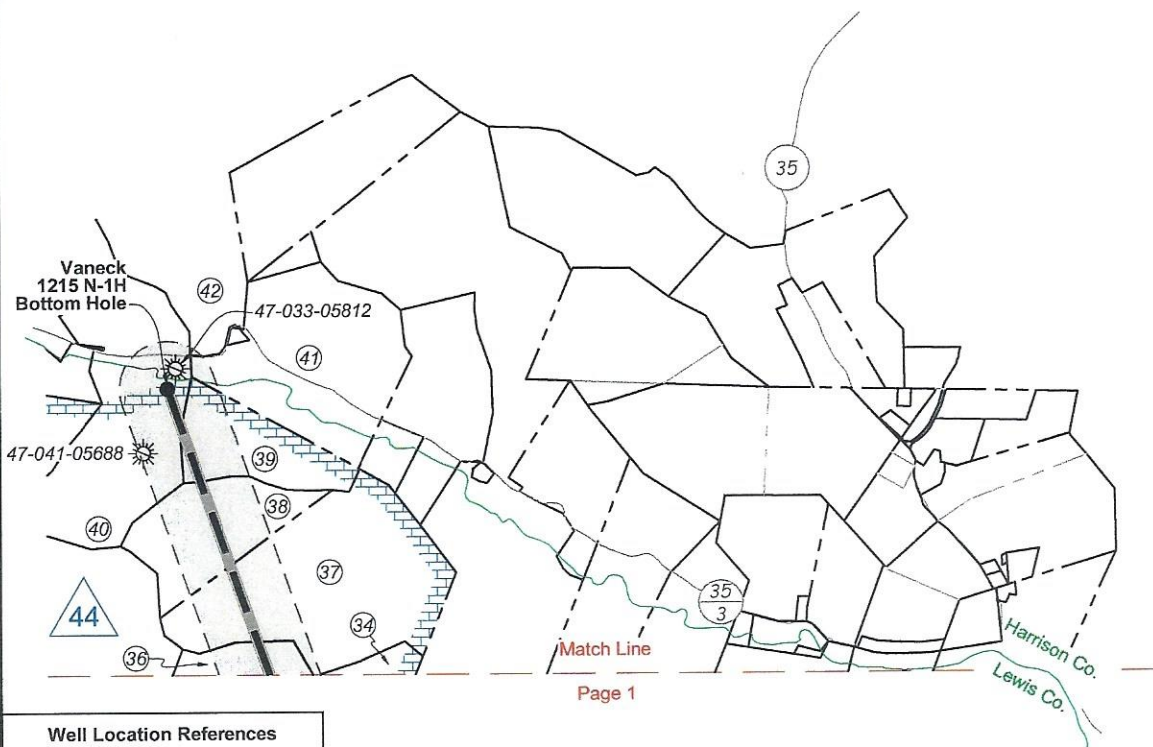
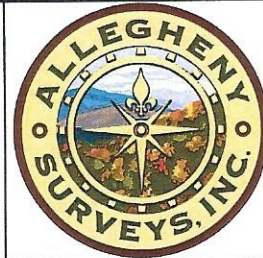
DATE: April 19 2023  
OPERATOR'S WELL NO. Vaneck 1215 N-1H  
API WELL NO  
47 - 041 - 05732  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek  
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al  
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) LP-MOD 7,087' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,431' MD

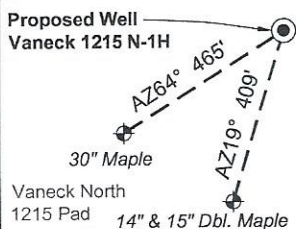
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101





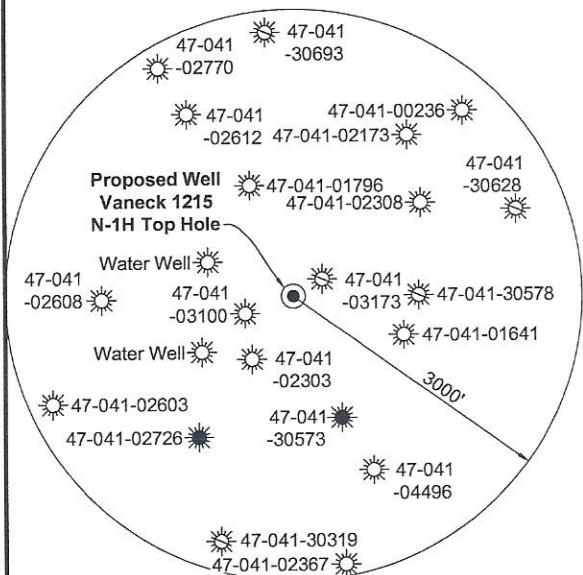
Page 1

**Well Location References**  
Not to Scale

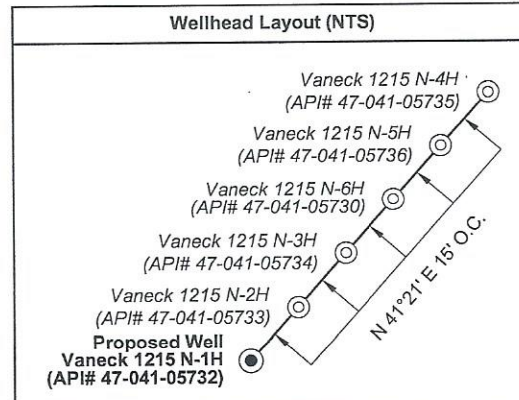


Tag	Bearing	Dist.	Description
L1	N 89°00' W	680.6'	1/2" Rebar
L2	N 23°30' W	584.6'	1/2" Rebar
L3	N 35°25' E	747.0'	47-041-02303
L4	N 75°55' E	521.3'	47-041-03100
L5	S 85°02' W	3,061.0'	Landing point

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



Note: 2 water well was found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



FILE NO: 156-36-UFC-20  
DRAWING NO: Vaneck 1215 N-1H 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: April 19 2023  
OPERATOR'S WELL NO. Vaneck 1215 N-1H  
API WELL NO  
47 — 041 — 05732  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

Top - Camden  
QUADRANGLE: Btm - Big Isaac  
COUNTY: Lewis  
ACREAGE: 55.00

SURFACE OWNER: HG Energy II, Appalachia, LLC, et al  
ROYALTY OWNER: George W. Waggoner, et ux, et al

LEASE NO: \_\_\_\_\_ ACREAGE: 56.00

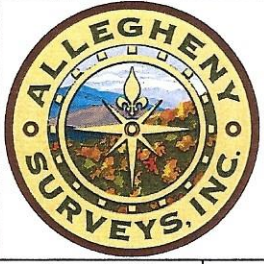
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) LP-MOD 7,087' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,431' MD

WELL OPERATOR: HG Energy II Appalachia, LLC  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

08/18/2023

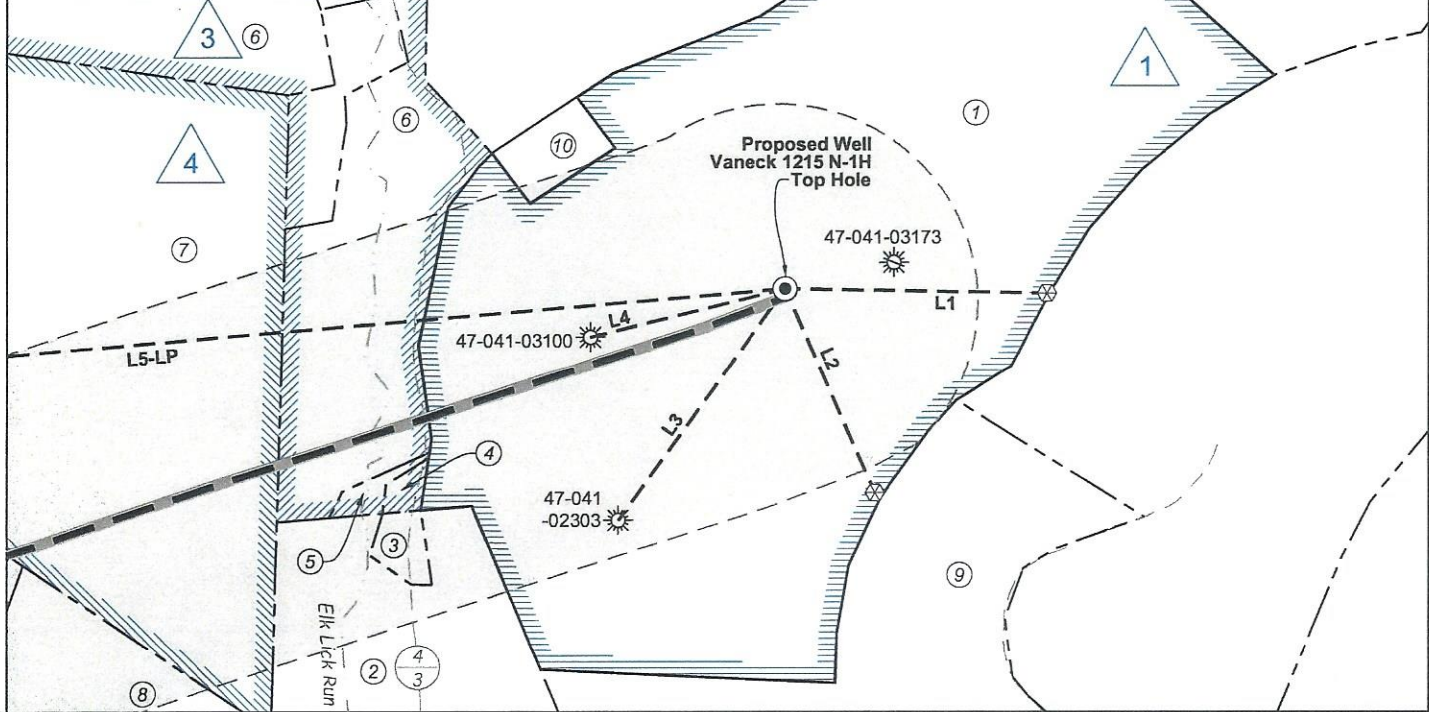




ID	Lease
1	George W. Waggoner, et ux
3	T.J. Halterman, et ux
4	George W. Waggoner, et ux
19	Eliza L. Haney, et vir, et al
21	L.E. Gall, et ux
29	J.R.H. Straley, et ux
31	C.A. Coffindaffer
42	Phillip E. Burnside, et al
43	Bennett Land Management, LLC, et al
44	W. Brent Maxwell, et al
63	William R. Burnside, et ux
64	Minor J. Hall, et ux
65	Sarepta Nutter
66	Hunter M. Bennett, et ux
67	C.A. Coffindaffer, et al
68	Hunter M. Bennett, et al

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	HG Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 12	Daniel L. & Rena M. Waggoner	733 / 664	14.50
3	5C / 12.1	Karen J. & Timothy S. Rittenhouse	753 / 130	0.48
4	5C / 11	Gary P. Stalnaker	519 / 599	0.24
5	5C / 7.1	Gary P. Stalnaker	519 / 599	0.35
6	5C / 7	Charles B. Curtis, Jr.	W19 / 725	45.65
7	5C / 8	Daniel L. & Rena M. Waggoner	733 / 664	49.75
8	5C / 10.1	Michael L. McLaughlin	365 / 572	13.06
9	5C / 25	Raymond C & Colona J. Waggoner	567 / 416	45.48
10	5C / 28	Judith G. Piercy	F30 / 596	1.00
11	5C / 10	Stephen & Sherry Marsh	631 / 742	55.69
12	5C / 9	John & Rebecca Bales	466 / 706	37.96
13	4C / 30	John & Rebecca Bales	466 / 706	26.96
14	5C / 6	Jason E. & Amy L. Hunt	589 / 3	85.00
15	4C / 27	Jeremy & Rebecca Day	726 / 592	56.50
16	4B / 42	Darren B. & Claudia Cox	621 / 746	56.50
17	5B / 9	Robert A. & Jane M. Marrison	722 / 374	47.50
18	5B / 5	Gerold L. & Rita R. Kolva	639 / 517	100.33
19	4B / 20.2	Pamela J. Kochenower	562 / 322	23.27
20	4B / 40	Curtis G. Ferguson	552 / 449	121.21
21	4B / 39	Mike Ross Inc.	678 / 455	67.75
22	4B / 38	Christopher Dobbins	724 / 857	19.25
23	4B / 33	Mike Ross Inc.	678 / 455	33.01
24	4B / 33.2	Steven M. Miller	753 / 420	3.74
25	4B / 33.1	Roy L. Marks, III	701 / 519	2.00
26	4B / 34	Rachel D. & Joshua M. Wyckoff	762 / 658	10.08
27	4B / 32	Larry K. Coffindaffer, et al	W45 / 431	60.00
28	4A / 16	Gregory B. Wright	722 / 430	26.75
29	4A / 38	Rachel D. & Joshua M. Wyckoff	750 / 260	63.97
30	4A / 17	Gregory B. Wright	722 / 430	20.25
31	4A / 18	Timothy G. Rose	656 / 598	24.70
32	4A / 32	Edward W. & Violet Titus	295 / 126	31.00
33	4A / 33	Kinchloe Mitigation Holdings, LLC	710 / 463	47.50
34	4A / 30	Kinchloe Mitigation Holdings, LLC	704 / 324	34.75
35	4B / 45	Joshua M. & Rachel D. Wyckoff	750 / 260	36.78
36	4A / 31	Kinchloe Mitigation Holdings, LLC	704 / 324	50.00
37	4A / 28	Kinchloe Mitigation Holdings, LLC	704 / 324	80.00
38	4A / 29	Kinchloe Mitigation Holdings, LLC	704 / 324	39.75
39	4A / 27	Kinchloe Mitigation Holdings, LLC	704 / 324	25.25
40	4A / 26	Robert T. Tyler	715 / 227	69.97
Harrison Co. - Union Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
41	421 / 5	Kinchloe Mitigation Holdings, LLC	1565 / 908	71.80
42	421 / 3	Kinchloe Mitigation Holdings, LLC	1565 / 908	98.26

Detail 1 (1"=500')



FILE NO: 156-36-UFC-20  
DRAWING NO: Vaneck 1215 N-1H 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: April 19 2023  
OPERATOR'S WELL NO. Vaneck 1215 N-1H  
API WELL NO  
47 - 041 - 05732  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Top - Camden Btm - Big Isaac  
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 DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) LP-MOD 7,087' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,431' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101



WW-6A1  
(5/13)

Operator's Well No. Vaneck 1215 N-1H

**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
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\*\*See Attached Sheets\*\*

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 co-tenants will be secured pursuant to the Co-Tenancy Act  
Horizontal Well Unit Utilization - Subject to unitization filing with the 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*  
 Its: Accountant



HG Energy II Appalachia, LLC - Vaneck 1215 N1H Lease Chain

RECEIVED  
Office Of Oil and Gas  
AUG 8 2023  
WV Department of Environmental Protection

08/18/2023

1215N Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
/ 1	FK051509	03-005C-0027-0001 03-005C-0029-0000	Q100665000	GEO. W. WAGGONER AND ROSA M. WAGGONER, HIS WIFE	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	73	383
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	371
				PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	185
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	246	192
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CNG TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				T.J. HALTERMAN AND S. A. HALTERMAN, HIS WIFE	E. W. BOYD	NOT LESS THAN 1/8	35	220
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	30	369
S. E. BARRETT	LOUIS BENNETT	ASSIGNMENT (50%)	36	517				
LOUIS BENNETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	571				
S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	569				
J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT (50%)	44	583				
J. M. GUFFEY AND JOHN H. GALEY	F. N. BARNSDALL	ASSIGNMENT	46	396				
F. N. BARNSDALL	F. L. BARTLETT	ASSIGNMENT	46	391				
THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141				
THE PHILADELPHIA COMPANY OF WEST VIRGINIA	CRUDE OIL COMPANY	ASSIGNMENT	92	155				
LOUIS BENNETT	CRUDE OIL COMPANY, A WV CORP	ASSIGNMENT	105	426				
CRUDE OIL COMPANY, A WV CORP	THE CRUDE OIL COMPANY, A OHIO CORP	ASSIGNMENT	105	426				
THE CRUDE OIL COMPANY	THE FEDERAL OIL & GAS COMPANY	ASSIGNMENT	100	31				
THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379				
THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	371				
FRANCIS H. BEAM, SPECIAL MASTER FOR THE FEDERAL OIL AND GAS COMPANY	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	371				
A. E. MACINTOSH	A. E. MACINTOSH	DEED	141	70				
ELIZABETH H. DOUGLAS, EXECUTRIX OF THE ESTATE OF SEPTER W. DOUGLAS	SEPTER W. DOUGLAS	ASSIGNMENT	142	438				
ALFRED D. BARNES AND MARION K. BARNES, HIS WIFE	ALFRED D. BARNES	ASSIGNMENT	171	122				
ALFRED D. BARNES AND MARION K. BARNES, HIS WIFE, AND OIL CITY TRUST COMPANY	OIL CITY TRUST COMPANY	ASSIGNMENT	172	350				
HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	DEED	172	354				
PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	185				
HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	216	185				
EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	246	192				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	425	127				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					

3

FK051508

03-005C-0007-0000  
03-005C-0007-0001  
03-005C-0007-0002  
03-005C-0007-0003  
03-005C-0011-0000

Q100429000



				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MEMORANDUM OF FARMOUT AGREEMENT		WVSOS			
				DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT			672	154	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)			684	57	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)			712	848	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT			717	1	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT			722	170	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE				WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT			723	499	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT			734	558	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)			736	220	
4	FK051507	03-005C-0008-0000	Q100757000	<b>WILLIAM R. BURNSIDE AND ELLA BURNSIDE, HIS WIFE</b>	E. W. BOYD	NOT LESS THAN 1/8			35	231	
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT			30	369	
				S. E. BARRETT	LOUIS BENNETT	PARTIAL ASSIGNMENT (50%)			36	517	
				S. E. BARRETT	J. M. GUFFEY AND JOHN H. GALEY	ASSIGNMENT			44	569	
				LOUIS BENNETT	J. M. GUFFEY AND JOHN H. GALEY	ASSIGNMENT			44	571	
				J. M. GUFFEY AND JOHN H. GALEY	PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT			44	583	
				PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH & WEST VIRGINIA GAS COMPANY	ASSIGNMENT			125	379	
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT			216	185	
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT			246	192	
				HOPE NATURAL GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED			294	89	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT			425	127	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE			51	795	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE			9	628	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT			672	154	
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)			684	57	
				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	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT			722	170	

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				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				<b>L. E. GALL AND HENRIETTA GALL, HIS WIFE</b>	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	58	484
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				DOMINION TRANSMISSION, INC.	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717	1
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	ASSIGNMENT	722	170
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				<b>C. A. COFFENDAFFER, SINGLE</b>	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	187	34
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CNG TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	471
				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%)	712	57
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	717	848
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
29	FK064974 FK065438 FK002595	03-004B-0040-0000 03-004B-0040-0001 03-004B-0025-0001 p/o 03-004B-0018-0000	Q100559000 Q100983000 Q100454000					
21	FK004388	03-005B-0007-0000 03-005B-0008-0000 03-005B-0009-0000	Q100456000					
31	FK058573 FEHGH10437	03-004B-0039-0000	Q100284000					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220
				<b>HUNTER M. BENNETT AND MADGE BENNETT, HIS WIFE</b>	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	191	488

08/18/2023



66	FK059388 FK067204 FK005787	03-004A-0033-0000 03-004B-0033-0001 03-004B-0033-0002 03-004B-0038-0000	Q100285000 Q100995000	<p>JASON G. BAILEY AND MINNIE E. BAILEY, HIS WIFE</p> <p>HOPE NATURAL GAS COMPANY</p> <p>CONSOLIDATED GAS SUPPLY CORPORATION</p> <p>CONSOLIDATED GAS TRANSMISSION CORPORATION</p> <p>CNG TRANSMISSION CORPORATION</p> <p>DOMINION TRANSMISSION, INC.</p> <p>CNX GAS COMPANY LLC</p> <p>NOBLE ENERGY, INC.</p> <p>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.</p> <p>NOBLE ENERGY, INC.</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>NOT LESS THAN 1/8</p> <p>CONFIRMATORY DEED</p> <p>ASSIGNMENT</p> <p>MERGER/NAME CHANGE</p> <p>MEMORANDUM OF FARMOUT AGREEMENT</p> <p>LIMITED PARTIAL ASSIGNMENT (50%)</p> <p>NOT LESS THAN 1/8</p> <p>PARTIAL ASSIGNMENT (32%)</p> <p>ASSIGNMENT</p> <p>MERGER/NAME CHANGE</p> <p>SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT</p> <p>NOT LESS THAN 1/8</p> <p>THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT</p> <p>ASSIGNMENT (68%)</p>	246 294 425 WVS05 672 684 692 712 717 722 WVS05 723 734 736	148 89 127 154 57 570 848 1 170 499 506 558 220
67	FK059862 FEHGI10437	03-004B-0032-0000	Q100497000	<p>C. A. COFFINDAFFER, WIDOWER; D. L. COFFINDAFFER AND L. O. COFFINDAFFER, HIS WIFE; GARNETT A. COFFINDAFFER AND BERYL COFFINDAFFER, HIS WIFE; WILL E. MORRIS AND CAMELLA MORRIS, HIS WIFE; EVA T. CLEMENS GILL AND W. M. GILL, HER HUSBAND</p> <p>HOPE NATURAL GAS COMPANY</p> <p>CONSOLIDATED GAS SUPPLY CORPORATION</p> <p>CONSOLIDATED GAS TRANSMISSION CORPORATION</p> <p>CNG TRANSMISSION CORPORATION</p> <p>DOMINION TRANSMISSION, INC.</p> <p>CNX GAS COMPANY LLC</p> <p>NOBLE ENERGY, INC.</p> <p>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.</p> <p>NOBLE ENERGY, INC.</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>NOT LESS THAN 1/8</p> <p>CONFIRMATORY DEED</p> <p>ASSIGNMENT</p> <p>MERGER/NAME CHANGE</p> <p>MEMORANDUM OF FARMOUT AGREEMENT</p> <p>LIMITED PARTIAL ASSIGNMENT (50%)</p> <p>PARTIAL ASSIGNMENT (32%)</p> <p>ASSIGNMENT</p> <p>MERGER/NAME CHANGE</p> <p>SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT</p> <p>THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT</p> <p>ASSIGNMENT (68%)</p>	195 294 425 WVS05 672 684 712 717 722 WVS05 723 734 736	88 89 127 154 57 848 1 170 499 558 220
68	FK066252 FK066640	03-004A-0017-0000 03-004A-0016-0000 03-004A-0015-0000	Q100310000 Q100569000	<p>HUNTER M. BENNETT, EXECUTOR AND TRUSTEE OF ALICE B. BENNETT</p> <p>WALTER D. NUTTER AND DORA NUTTER, HIS WIFE; WALTER E. NUTTER, SINGLE; BENJAMIN L. NUTTER, SINGLE; AND DAVID H. NUTTER, SINGLE</p> <p>HOPE NATURAL GAS COMPANY</p> <p>CONSOLIDATED GAS SUPPLY CORPORATION</p> <p>CONSOLIDATED GAS TRANSMISSION CORPORATION</p> <p>CNG TRANSMISSION CORPORATION</p> <p>DOMINION TRANSMISSION, INC.</p> <p>CNX GAS COMPANY LLC</p> <p>NOBLE ENERGY, INC.</p> <p>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.</p> <p>NOBLE ENERGY, INC.</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>DOMINION ENERGY TRANSMISSION, INC.</p> <p>HG ENERGY II APPALACHIA, LLC</p> <p>NOT LESS THAN 1/8</p> <p>CONFIRMATORY DEED</p> <p>ASSIGNMENT</p> <p>MERGER/NAME CHANGE</p> <p>MEMORANDUM OF FARMOUT AGREEMENT</p> <p>LIMITED PARTIAL ASSIGNMENT (50%)</p> <p>PARTIAL ASSIGNMENT (32%)</p> <p>ASSIGNMENT</p> <p>MERGER/NAME CHANGE</p> <p>SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT</p> <p>THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT</p>	242 294 425 WVS05 9 672 684 712 717 722 WVS05 723 734	217 89 127 628 154 57 848 1 170 499

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				DOMINION ENERGY TRANSMISSION, INC. GARNET GAS COMPANY	HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%) NOT LESS THAN 1/8	736 777	220 205
42	CNX260713000 FEE CNX260718000 FEE	03-004A-0038-0000 p/o 03-004B-0045-0000	Q102226000 Q102225000	PHILIP E. BURNSIDE JOHN ROBERT CURREY AND VIRGINIA Y. CURREY, HIS WIFE MOUNTAIN V OIL AND GAS INC CNX GAS COMPANY LLC NOBLE ENERGY, INC. BENNETT LAND MANAGEMENT LLC KINCHELOE MITIGATION HOLDINGS LLC	MOUNTAIN V OIL AND GAS COMPANY INC MOUNTAIN V OIL AND GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8 ASSIGNMENT ASSIGNMENT ASSIGNMENT NOT LESS THAN 1/8 NOT LESS THAN 1/8	595 595 685 717 722 776 777	141 512 659 1 170 517 750
43	N/A	03-004A-0033-0000 03-004A-0026-0000 03-004A-0026-0000 03-004A-0030-0000 03-004A-0027-0000 03-004A-0003-0000 03-004A-0003-0000 03-004A-0028-0000 03-004A-0029-0000 03-004A-0006-0000 03-004A-0006-0001 03-004A-0007-0000 03-004A-0008-0000 03-004A-0014-0000 03-004A-0018-0000 THRU 03-004A-0025-0000	HG102026 HG102044	LEEMAN MAXWELL, PORTER MAXWELL, LEWIS MAXWELL, AND W. BRENT MAXWELL, HEIRS OF FRANKLIN MAXWELL W. BRENT MAXWELL SOUTH PENN OIL COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	SOUTH PENN OIL COMPANY SOUTH PENN OIL COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8 ASSIGNMENT CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	33 42 52 294 425 WVSOS WVSOS 672 684 712 717 722 WVSOS 723 734 736	258 405 259 89 127 154 57 848 1 170 499 558
44	FK004280 FK004281	03-004A-0006-0000 03-004A-0006-0001 03-004A-0007-0000 03-004A-0008-0000 03-004A-0014-0000 03-004A-0018-0000	Q101148000 Q101149000	DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC	MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT ASSIGNMENT (68%)	734 734 736	558

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

July 27, 2023

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

RECEIVED  
Office Of Oil and Gas  
AUG 8 2023  
WV Department of  
Environmental Protection

RE: Vaneck 1215 N-1H Drill Permit Revision Request – (47-041-05732)  
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, AOR and WW-6A1) and a check for expedited service for the 1215 N-1H well work permit revision request. We ask the permit be modified due to additional acquired leases resulting in extended total measured depth and horizontal leg for the specified 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](mailto:dwhite@hgenergyllc.com).

Very truly yours,

*Diane White*

Diane C. White

Enclosures

cc: Ken Greynolds – WV DEP State Inspector

CK# 036644  
Amt \$7500  
Date 7/25/23

08/18/2023