



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, August 15, 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-2H
47-041-05733-00-00

Lateral Extension/ Adding Leases

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the typed name and title.

Operator's Well Number: Vaneck 1215 N-2H
Farm Name: HG ENERGY II APPALACHIA, LLC
U.S. WELL NUMBER: 47-041-05733-00-00
Horizontal 6A New Drill
Date Modification Issued: 08/15/2023

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-2H 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 Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

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: 27,996'

11) Proposed Horizontal Leg Length: 19,959'

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

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

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

WW-6B
(04/15)

API NO. 47-4704105733
 OPERATOR WELL NO. Vaneck 1215 N-2H
 Well Pad Name: Vaneck 1215

18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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	5825'	5825' ✓	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	27996'	27996'	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 08:11:24 -0400

<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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 1.24
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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 19,959' lateral length, 27,996' 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 - D996 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D095 1.5 lb per BBL. CemNET* - 80% Excess15.9 ppg Tail - Yield 1.17 - D996 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.

*Note: Attach additional sheets as needed.



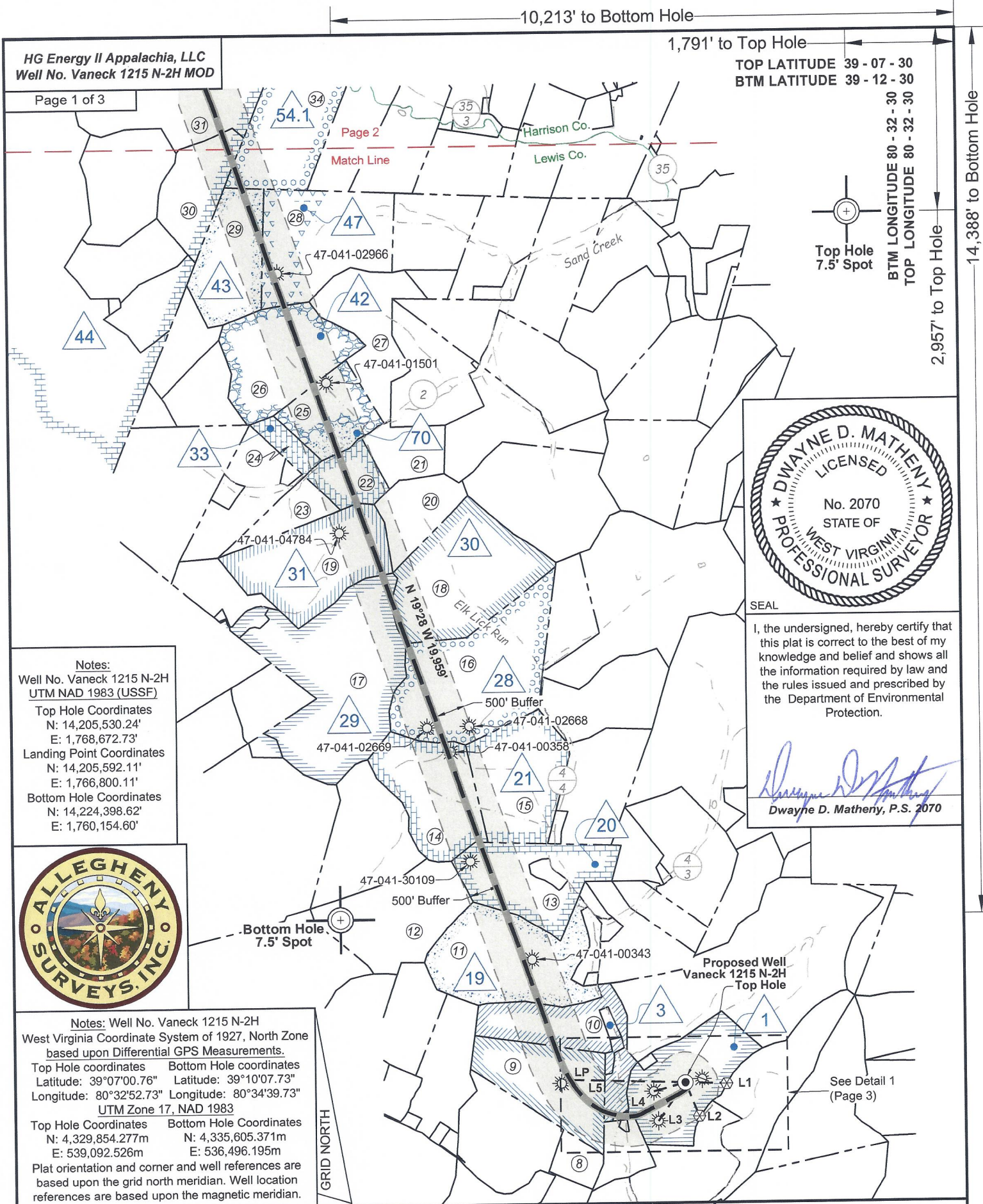
1215 N-2H
Marcellus Shale Horizontal
Lewis County, WV

*** Storage String *** CTS ***
15.4 ppg Lead - Yield 1.24 - D896 Surface Set: 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB
Dispersant / D095 1.5 lb per BBL CemNET - 60% Excess
15.9 ppg Tail - Yield 1.17 - D896 Surface Set: 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam /
D801 - 0.03 gal / sack Retarder - 0% Excess

Ground Elevation		1215 N-2H SHL		1215 N-2H LP		1215 N-2H BHL		1215 N-2H SHL		1215 N-2H LP		1215 N-2H BHL	
Azim		1254.8°		340.681°		1254.8°		1254.8°		340.681°		1254.8°	
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS			
X	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A. Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wall thickness			
	26"	20" 94# J-55	Fresh Water Kittanning Coal Fresh Water Protection	0	214, 600, 861 905 1200	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			
X	17.5"	13-3/8" 68# J-55 BTC	Little Lime Big Lime Injun / Gantz (Storage)	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			
	12.25"	9-5/8" 40# N-80 BTC	Thirty Foot Gordon Stray / Gordon 5th Sand Bayard Speechley Benson Alexander / Elk Intermediate 2	2274 2320 / 2346 2590 2660 3287 4599 4930 / 5540	2286 2336 / 2446 2612 2675 3301 4615 5100 / 5600 TVD: 5650' MD: 5625' inc: 25 deg.	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			
X	8.75"		Rhinestreet Cashaqua Middlesex West River Burkett Tully Limestone Hamilton	6203 6444 6650 6734 6831 6864 6950 6753		AIR / 9.0ppg SOBMs	Lead: 14.5 ppg POZ PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 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 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		6831 6864 6950 7015		11.5ppg-12.5ppg SOBMs		Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.					
X	8.5" Lateral		Marcellus TMD / TVD (Production) Onondaga	27995 7088 7088		11.5ppg-12.5ppg SOBMs							

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AUG 8 2023
WV Department of Environmental Protection
08/18/2023

LP @ 7087' TVD / 8036' MD
8.5" Hole - Cemented Long String
5-1/2" 23# P-110 HP CDC HTQ
+/-19959' ft Lateral
TD @ +/-7087' TVD
+/-27959' MD
X=Centralizers

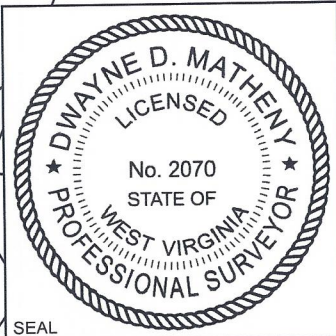


HG Energy II Appalachia, LLC
Well No. Vaneck 1215 N-2H MOD

Page 1 of 3

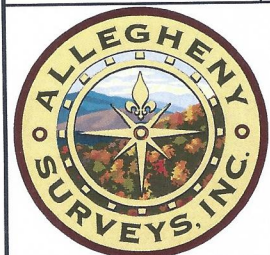
10,213' to Bottom Hole
1,791' to Top Hole
TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 12 - 30

TOP LONGITUDE 80 - 32 - 30
BTM LONGITUDE 80 - 32 - 30
2,957' to Top Hole
14,388' to Bottom Hole



SEAL
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-2H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,530.24'
E: 1,768,672.73'
Landing Point Coordinates
N: 14,205,592.11'
E: 1,766,800.11'
Bottom Hole Coordinates
N: 14,224,398.62'
E: 1,760,154.60'



Notes: Well No. Vaneck 1215 N-2H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'00.76" Latitude: 39°10'07.73"
Longitude: 80°32'52.73" Longitude: 80°34'39.73"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,854.277m N: 4,335,605.371m
E: 539,092.526m E: 536,496.195m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

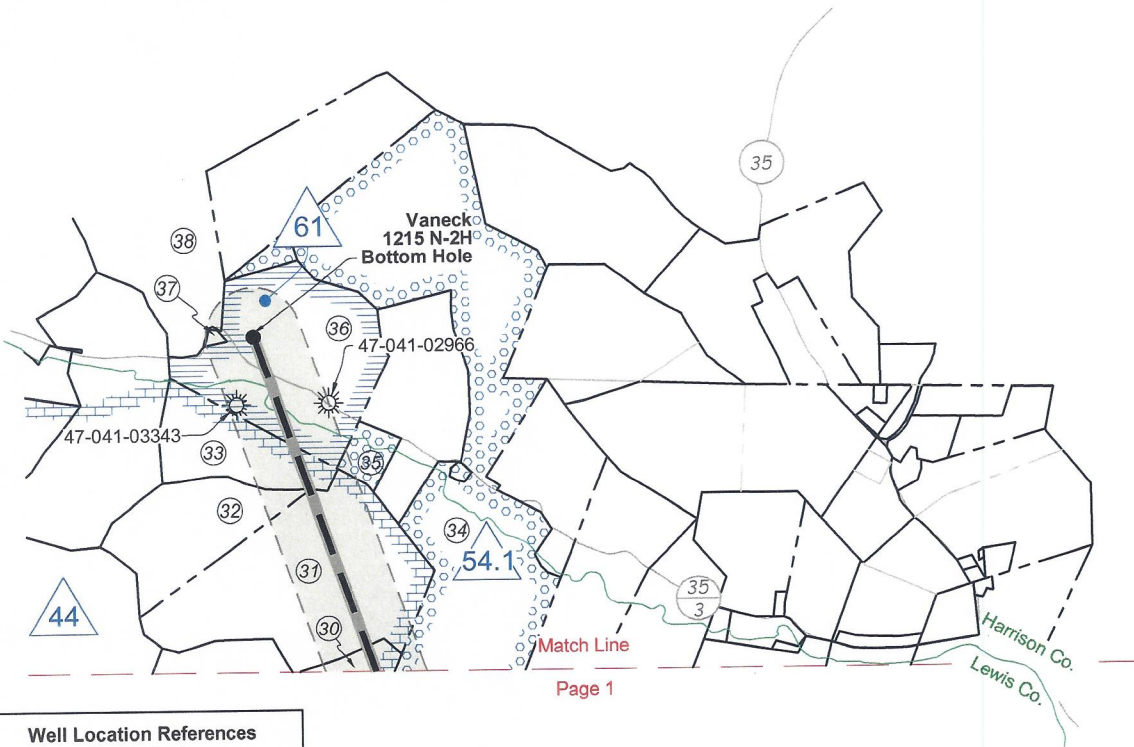
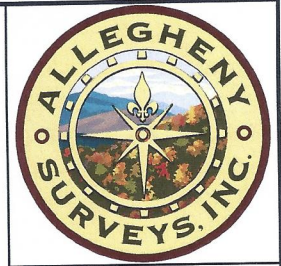
FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-2H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: April 19 2023
OPERATOR'S WELL NO. Vaneck 1215 N-2H
API WELL NO
47 - 041 - 05733
STATE COUNTY PERMIT

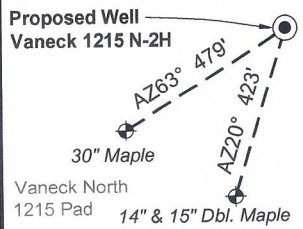
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00
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: 27,996' 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



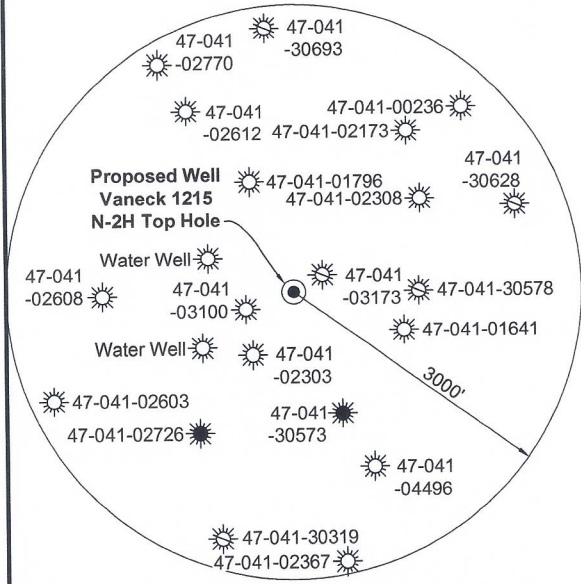
Page 1

**Well Location References
Not to Scale**

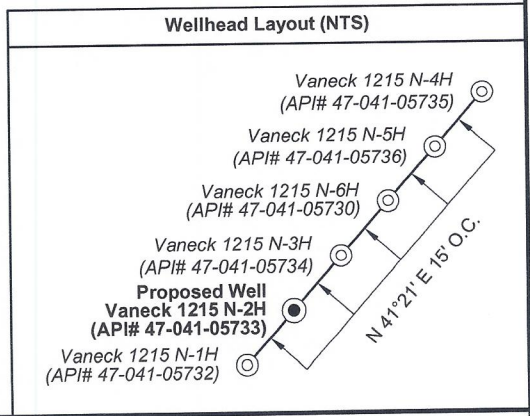


Tag	Bearing	Dist.	Description
L1	N 88°02' W	671.0'	1/2" Rebar
L2	N 22°11' W	591.1'	1/2" Rebar
L3	N 35°32' E	761.9'	47-041-02303
L4	N 75°01' E	533.7'	47-041-03100
L5	N 88°06' W	1,873.6'	Landing point

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.)
	Adjoinder 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-2H Well Plat
SCALE: 1" = 2000'
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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-2H
API WELL NO
47 - 041 - 05733
STATE COUNTY PERMIT

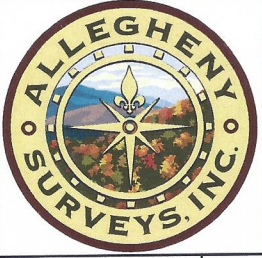
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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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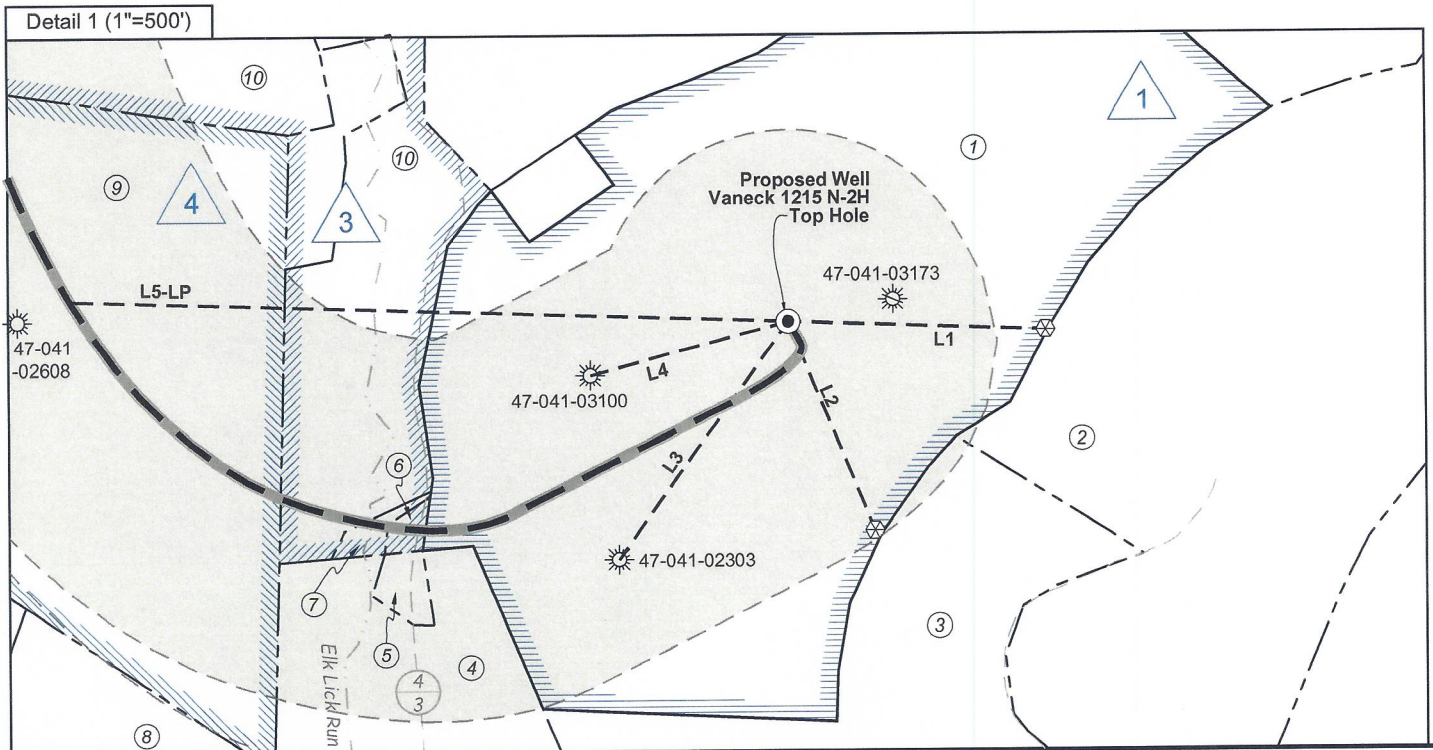
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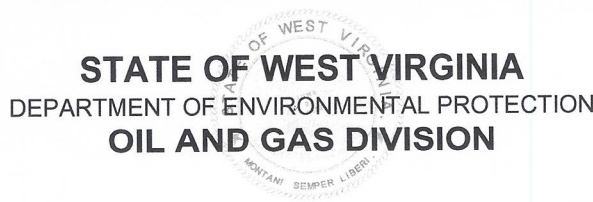
ID	Lease
1	George W. Waggoner, et ux
3	T.J. Halterman, et ux
4	George W. Waggoner, et ux
19	Eliza L. Haney, et vir, et al
20	Francis M. McKinley, et ux
21	L.E. Gall, et ux
28	L.E. Gall, et ux, et al
29	J.R.H. Straley, et ux
30	W.S. Bennett, et ux
31	C.A. Coffindaffer
33	Mary F. Gaskins, et vir
42	Phillip E. Burnside, et al
43	Bennett Land Management, LLC, et al
44	W. Brent Maxwell, et al
47	Zella Curry, et vir, et al
54.1	Glen E. Kost, et al
61	James F. Balala, et ux
70	Avery F. Gaskins, et ux

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 / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
3	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
4	5C / 12	Daniel L. & Rena M. Waggoner	733 / 664	14.50
5	5C / 12.1	Karen J. & Timothy S. Rittenhouse	753 / 130	0.48
6	5C / 11	Gary P. Stalnaker	519 / 599	0.24
7	5C / 7.1	Gary P. Stalnaker	519 / 599	0.35
8	5C / 10.1	Michael L. McLaughlin	365 / 572	13.06
9	5C / 8	Daniel L. & Rena M. Waggoner	733 / 664	49.75
10	5C / 7	Charles B. Curtis, Jr.	W19 / 725	45.65
11	5C / 6	Jason E. & Amy L. Hunt	589 / 3	85.00
12	4C / 27	Jeremy & Rebecca Day	726 / 592	56.50
13	5B / 11	Betty E. Rhoades	W35 / 524	56.00
14	5B / 9	Robert A. & Jane M. Marrison	722 / 374	47.50
15	5B / 8	Robert A. & Jane M. Marrison	722 / 374	47.50
16	5B / 5	Gerold L. & Rita R. Kolva	639 / 517	100.33
17	4B / 40	Curtis G. Ferguson	552 / 449	121.21
18	5B / 4	Coastal Forest Resources Co.	710 / 471	85.00
19	4B / 39	Mike Ross Inc.	678 / 455	67.75
20	5B / 2	Coastal Forest Resources Co.	710 / 471	26.00
21	4B / 36	Jeffrey P. & Anessa E. Griffith	692 / 498	23.50
22	4B / 37	Allen Stewart	715 / 724	19.25
23	4B / 38	Christopher Dobbins	724 / 857	19.25
24	4B / 34	Rachel D. & Joshua M. Wyckoff	762 / 658	10.08
25	4B / 45	Rachel D. & Joshua M. Wyckoff	750 / 260	36.78
26	4A / 38	Rachel D. & Joshua M. Wyckoff	750 / 260	63.97
27	4A / 37	Rachel D. & Joshua M. Wyckoff	750 / 260	48.50
28	4A / 34	Jerry Tomes	W17 / 336	80.00
29	4A / 33	Kinchloe Mitigation Holdings, LLC	710 / 463	47.50
30	4A / 30	Kinchloe Mitigation Holdings, LLC	704 / 324	34.75
31	4A / 28	Kinchloe Mitigation Holdings, LLC	704 / 324	80.00
32	4A / 29	Kinchloe Mitigation Holdings, LLC	704 / 324	39.75
33	4A / 27	Kinchloe Mitigation Holdings, LLC	704 / 324	25.25

Harrison Co. - Union Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
34	421 / 8	Kinchloe Mitigation Holdings, LLC	1565 / 908	185.30
35	421 / 27	Kinchloe Mitigation Holdings, LLC	1565 / 908	6.10
36	421 / 5	Kinchloe Mitigation Holdings, LLC	1565 / 908	71.80
37	421 / 4	Kinchloe Mitigation Holdings, LLC	1565 / 908	0.57
38	421 / 3	Kinchloe Mitigation Holdings, LLC	1565 / 908	98.26



FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-2H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV



DATE: April 19 2023
OPERATOR'S WELL NO. Vaneck 1215 N-2H
API WELL NO
47 - 041 - 05733
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: Wayne
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: 27,996' 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-2H

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

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

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

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

RECEIVED
Office Of Oil and Gas

AUG 8 2023

WV Department of
Environmental Protection

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-2H Lease Chain

1215N Tract	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	ASSIGNMENT	246	192
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		WVSOS
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		WVSOS
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				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
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE		WVSOS
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	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
				3	FK051508	03-005C-0007-0000 03-005C-0007-0001 03-005C-0007-0002 03-005C-0007-0003 03-005C-0011-0000	Q100429000	T. J. HALTERMAN AND S. A. HALTERMAN, HIS WIFE
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
LOUIS BENNETT	CRUDE OIL COMPANY	ASSIGNMENT	92					155
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	A. E. MACINTOSH	DEED	141					70
A. E. MACINTOSH	SEPTER W. DOUGLAS	ASSIGNMENT	142					438
ELIZABETH H. DOUGLAS, EXECUTRIX OF THE ESTATE OF SEPTER W. DOUGLAS	ALFRED D. BARNES	ASSIGNMENT	171					122
ALFRED D. BARNES AND MARION K. BARNES, HIS WIFE	OIL CITY TRUST COMPANY	ASSIGNMENT	172					350
ALFRED D. BARNES AND MARION K. BARNES, HIS WIFE; AND OIL CITY TRUST COMPANY	HOPE NATURAL GAS COMPANY	DEED	172					354
PITTSBURG 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	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE						WVSOS
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE						WVSOS
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672					154

				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				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
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	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
				GEO. W. WAGGONER AND R. M. WAGGONER, HIS WIFE	E. W. BOYD	NOT LESS THAN 1/8	35	236
				E. W. BOYD	S. E. BARRETT	ASSIGNMENT	30	369
				S. E. BARRETT	LOUIS BENNETT	ASSIGNMENT (50%)	36	517
				S. E. BARRETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	569
				LOUIS BENNETT	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	571
				J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	583
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	371
				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	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				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
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	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					
				ELIZA L. HANEY AND J. W. HANEY, HER HUSBAND, MARY B. EATON AND T. R. EATON, HER HUSBAND, EMMA J. ATKINSON AND LEANDER ATKINSON, HER HUSBAND, NELLIE K. FORE AND HARRY C. FORE, HER HUSBAND, ELSIE STEWART AND CLAUD STEWART, HER HUSBAND, ORIS CAMP, HUSBAND OF GARNETT CAMP, AND ORIS CAMP, GUARDIAN FOR GARNETTE CAMP AND OLIN WARREN	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	144	428
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				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
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
19	FK049880	03-005C-0006-0000	Q100660000					

				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				
20	FK056566	03-005B-0011-0000 03-005B-0011-0001	Q100775000	FRANCIS M. MCKINLEY AND M. E. MCKINLEY, HIS WIFE	J. M. GUFFEY AND JOHN H. GALEY	NOT LESS THAN 1/8	44	193				
				J. M. GUFFEY AND JOHN H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	73	318				
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379				
				PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	174	231				
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57				
				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				
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	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								
21	FK004388	03-005B-0007-0000 03-005B-0008-0000 03-005B-0009-0000	Q100456000	L. E. GALL AND HENRIETTA GALL, HIS WIFE	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				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57				
				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				
				28	FK056564	03-005B-0005-0000	Q100344000	L. E. GALL AND HENRIETTA GALL, HIS WIFE; AND J. L. GALL AND MARY E. GALL, HIS WIFE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	32
								J. N. BARNSDALL AND SOUTHERN OIL OCOMPANY	FRED S. RICH	DEED	46	170
FRED S. RICH AND M. B. RICH, HIS WIFE	GEORGE H. CORNWALL AND JOHN M. REED	ASSIGNMENT (12.5%)	46					228				
FRED S. RICH AND M. B. RICH, HIS WIFE, GEORGE H. CORNWALL AND MARY D. CORNWALL, HIS WIFE, J. M. REED AND ELLA REED, HIS WIFE,(PARTNERS AS FRED S. RICH & CO.) AND W. I. GOBEL AND L. M. GOBEL, HIS WIFE	CRUDE OIL COMPANY	ASSIGNMENT	52					176				
CRUDE OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	55					95				
CRUDE OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	55					437				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS									
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS									
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672					154				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684					57				
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
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	J. R. H. STRALEY AND LILLIE STRALEY, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	199
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				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
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	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				
30	FK056568 FK065934	03-005B-0004-0000	Q100345000 Q100987000	W. S. BENNETT AND A. V. BENNETT, HIS WIFE	THE LEWIS OIL COMPANY	NOT LESS THAN 1/8	44	6
				THE LEWIS OIL COMPANY	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	44	562
				THE LEWIS OIL COMPANY	J. M. GUFFEY AND JNO. H. GALEY	ASSIGNMENT	46	399
				J. M. GUFFEY AND JNO. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	73	318
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
				THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	174	231
				HUNTER M. BENNETT AND MADGE BENNETT, HIS WIFE; GUFFEY OIL AND GAS ROYALTIES, INC.; AND JOSEPH SHIBEN AND MINNIE SHIBEN, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	235	105
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				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				
31	FK058573	03-004B-0030-0000	Q100784000	C. A. COFFINDAFFER, SINGLE	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
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9	471
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848

	FEEHGII0437			CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	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
				MAY FREEMAN GASKINS AND AVERY E. GASKINS, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	185	278
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				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
70	Q097910000	p/o 03-004A-0038-0001	Q097910000	AVERY F GASKINS ET UX	CNX GAS COMPANY LLC	DEED	748	848
				PHILLIP E. BURNSIDE	MOUNTAIN V OIL AND GAS COMPANY INC	NOT LESS THAN 1/8	595	141
				JOHN ROBERT CURREY AND VIRGINIA Y. CURREY, HIS WIFE	MOUNTAIN V OIL AND GAS COMPANY INC	NOT LESS THAN 1/8	595	512
				MOUNTAIN V OIL AND GAS INC	CNX GAS COMPANY LLC	ASSIGNMENT	685	659
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				ZELLA CURRY AND H.O. CURRY, HER HUSBAND; AND ETHEL F. CURRY, WIDOW	E. DAVISSON HARDMAN	NOT LESS THAN 1/8	386	371
				E. DAVISSON HARDMAN	J. ROBERT HORNOR	ASSIGNMENT	387	623
				J. ROBERT HORNOR	STONEWALL GAS COMPANY	ASSIGNMENT	389	450
				STONEWALL GAS COMPANY	STONEWALL 80-2 JOINT VENTURE AND MOUNTAIN GAS 80-2	ASSIGNMENT	389	445
				STONEWALL 80-2 JOINT VENTURE AND MOUNTAIN GAS 80-2, ET AL	MOUNTAIN INCOME I LIMITED PARTNERSHIP	ASSIGNMENT (0.08007817)	517	531
				STONEWALL 80-2 JOINT VENTURE AND MOUNTAIN GAS 80-2, ET AL	STONEWALL GAS COMPANY	ASSIGNMENT (0.0360762)	517	517
				MOUNTAIN INCOME I LIMITED PARTNERSHIP	STONEWALL GAS COMPANY	ASSIGNMENT (0.00160160)	532	724
				MOUNTAIN INCOME I LIMITED PARTNERSHIP	DOMINION APPALACHIAN DEVELOPMENT PROPERTIES, LLC	ASSIGNMENT (0.07847660)	533	604
				STONEWALL GAS COMPANY	DOMINION APPALACHIAN DEVELOPMENT PROPERTIES, INC	MERGER/NAME CHANGE	59	1086
				DOMINION APPALACHIAN DEVELOPMENT PROPERTIES INC	DOMINION APPALACHIAN DEVELOPMENT PROPERTIES LLC	MERGER/NAME CHANGE	10	38
				DOMINION APPALACHIAN DEVELOPMENT PROPERTIES, LLC	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	776	976
43	HGII02026 HGII02044	03-004A-0033-0000	HGII02026 HGII02044	BENNETT LAND MANAGEMENT LLC	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	776	517
				KINCHELOE MITIGATION HOLDINGS LLC	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	777	750
				LEEMAN MAXWELL, PORTER MAXWELL, LEWIS MAXWELL, AND W. BRENT MAXWELL, HEIRS OF FRANKLIN MAXWELL	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	33	258
				W. BRENT MAXWELL	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	405
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	52	259
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127

44	FK004280 FK004281	03-004A-0028-0000	Q101148000 Q101149000	CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE				
		03-004A-0029-0000		CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE				
		03-004A-0006-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154		
		03-004A-0006-0001		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57		
		03-004A-0007-0000		DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848		
		03-004A-0008-0000		CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1		
		03-004A-0014-0000		NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170		
		03-004A-0018-0000		DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE				
		THRU				SECOND AMENDMENT TO MEMORANDUM OF				
		03-004A-0025-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	723	499		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF	734	558		
		03-004A-0031-0000		DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220		
						Glen E. Kost				
						(Heir - Elva V. Kost)	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1711	634
						Skypoint Resources, LLC	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	1032
						James "Ted" Talbott	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	1237
						Judith Irene Lenz	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	779
						Richard B. Talbott	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	1225
						Mary Ann Talbott Newcomer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	1026
			Jamie Marsh	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1738	371			
			Shannon Carlson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1738	373			
			Ryan C. Radtka	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1741	930			
			Agnes J. Coffindaffer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1711	1056			
			Timothy Sanger	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	419			
			Stephen Sanger	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	421			
			Diane Smith	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	458			
			Michele Sanger	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	431			
			Terry Bostardi	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1724	408			
			Thomas A. Tricott	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	735			
			Jane Ann Barton	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	972			
			Breana M. Lewis	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1720	74			
			Jackie Gear	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	968			
			Connie Sue Coffindaffer Ferrell	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	727			
			Wade H. Coffindaffer III	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	415			
			Debra Kay Stansbury Oyler	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1711	1108			
			Thomas R. McConnell	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	788			
			Shelly Legaspi	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1718	1172			
			Chad Johnson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1734	937			
			Betty Jo Keister	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1709	732			
			William Lewis Coffindaffer	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1710	110			
			Carol Ann Nay	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1711	60			
			Freda Pauline Perkins	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1709	929			
			Barbara Ann Dawson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1711	1051			
			Misha Lea McDonie	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	429			
			William J. Sheldon	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	413			
			Susan J. Smith	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	751			
			Diana Jean Smith Rahm	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1720	749			
			Sheryl Lynn Smith Koons	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1723	224			
			Trustees of the Jackson Lodge No. 35 AF & AM Cemetery	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1719	1319			
			Tillman Lee Williams, Life Estate	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	743			
			Tillman Lee Williams, Remainderman	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	747			
			Aneta (Anita) Marie Davis, Remainderman	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1709	1326			
			Edward Williams, Remainderman	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1734	783			
			Beth Ann Thompson, Remainderman	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1711	1116			
			Michelle Gregory FKA Michelle K. Rodgers, Successor Trustee of the Michelle K. Rodgers Trust	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	790			

R. Michael Groom, as Trustee of the Michael D. Rodgers Trust (Michael D. Rodgers is now the Trustee, as of May, 2021)	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	1034
R. Michael Groom, as Trustee of the Raymond R. Rinehart Trust (Raymond R. Rinehart is now the Trustee as of this week.)	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	1229
Sidney Boggess Jackson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1710	858
Charles Russell Jackson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1711	1110
Carney B. Jackson Revocable Trust, dated December 13, 2007, Carney B. Jackson and/or Beth L. Jackson, Trustee	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1710	864
Margaret E. Hugus	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	439
James Ivan McDonald	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1718	1180
William Michael McDonald	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	1233
Marijo Robin Morris Marsh	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1718	1174
Sandra E. Morris	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1708	696
David Michael Bennett	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	1227
Lanette Higgins	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1716	858
Cheri Lynn Myron	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	1034
Leslie Morris	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1716	856
Marcia Morris	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	974
Charles Lynn Morris	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1723	310
Phillip Roger Slagle, Jr.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	1030
Patricia Sandoval	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1737	130
Ora Lee Levy Trust c/o First Merchant's Bank, Andrew Weisenburger, Trustee	HG ENERGY II APPALACHIA LLC	Horizontal Unit Order	800	824
Anita Douglas Bratko	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1723	553
Buene Ann Douglas Neel AKA Buine Ann Douglas by POA Kent Neel	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1737	155
Joe Ross Douglas	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1737	132
Julia Ann Malone fka Julia Ann Carder nka Julie Ann Carder Young	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1719	1307
Betty Fridley	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	1235
Lueva Lee Morris Shuman				
AlF Terri J. Jones	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1741	825
Patricia Y. Owens	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	1239
Ginger C. Morris	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1741	823
Amanda Jo Morris	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	1028
Amy Louise Morris Wuest	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1739	365
Patricia L. Turk Morris	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1717	40
Eva Marie Morris	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	853
Cheri L. Myron	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	1034
Anita Carol Snider Jarrett Douglas	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1711	1053
Julie Ann Carder	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1719	1307
JOHN R. MORRIS ET AL	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1113	1069
JACKSON L SMITH	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1107	356
JACKSON L SMITH	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1116	705
Pete Perri and Guy E. Morris, Jr., d/b/a C & P Oil & Gas Company	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1332	1019
Robert L. Matthey, Jr.	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1336	172
Robert L. Matthey, Jr.	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1336	175
Robert L. Matthey, Sr. and Robert L. Matthey, Jr.	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1351	1228
HMS RESOURCES INC	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1743	411
Pamela Peet	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1743	420
James Bradford Halcums	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1720	177
Billy L. Coffindaffer c/o Ernie Coffindaffer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	1032
Ernest E. Carder, Jr.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1739	519
Lou Ann Baker	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	441

Mary Jo Strong Short	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	758
Deidre L. Mason Brown	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1732	532
Joanne B. Penny	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1719	1338
John Penny	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1721	790
Michelle Johnson, aka Jacqueline Michelle Johnson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1732	987
Priscilla Ann Shields	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	737
Karen Jo Ogrodnick	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1732	785
Susan Pronchik	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1736	851
Kimberly Jo Griffith	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1737	150
Francis Winfield Hughes	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1718	1184
Fred Keith Coffindaffer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1735	733
Beverly Jo Coffindaffer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1710	876
Vanessia G. Hillberry, aka Vanessia G. Coffindaffer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1712	741
David L. Coffindaffer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1715	1052
Shyann Coffindaffer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1737	134
Beverly T. Rose	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Teresa Rose Altridge	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
H. M. Burton "Helen"	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Paula Ashley	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Lindsay Kay Dickenson	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Geri Beth Dickenson	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Mary Ellen Kraws (Kraus)	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Clarence Lee Coffindaffer	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Diana M. Esteve	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Mark J. Coffindaffer	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Chad W. Johnson	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
David L. Currey (Leslie K. Currey; guardian)	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Maranda Michelle Elizabeth Ford	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Richard Thomas Ford, II	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Ralph LaGatta, Life Estate (Carmela Weber is full guardian and conservator)	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Carmela Weber, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Michael LaGatta, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Trustees of the Francis J. LaGatta Revocable Trust, dated September 15, 2011, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Rita Jane Davis, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Mark Allen Williams, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Amy Williams, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Timothy Williams, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Rita Jane Davis, Life Estate	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Erica Davis, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Mark Allen Williams, Life Estate	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Joel Williams, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Justin Williams, Remainderman	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
A. Morris Clemans UA Trust, Alan Clemans, Trustee	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Robert W. Morris	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Richard Charles Bennett	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Wendy Marie Bennett Denny	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Bruce I. MacNeill	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Mary B. Ferguson Trust	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
T. Ritson Ferguson III, Trustee	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Mary L. Morris Hurst	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Tonya Morris	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Alice Jean Morris Kirkendall	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Carl R. Lingerfelt	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Alan Clemans, Trustee of the A. Morris Clemans Testamentary Trust	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
Wendy Marlene Bennett Denny	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824

			Lucille R. Taylor	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Jimmie Jo Douglas Smith	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			NAJ, LLC, a West Virginia limited liability company	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Shirley J. Alkire	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Linda L. Burch	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Robert L. Carder	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Joseph H. Mason	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Scott Penny	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			John C. Irvine	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			James R. Coffindaffer	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Debbie Sallee	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Charles Anthony Coffindaffer	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Linda Darlene McCoy Coffindaffer	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Cynthia Dawn Coffindaffer	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
			Domenic Calasante	HG ENERGY II APPALACHIA, LLC	Horizontal Unit Order	800	824
61.1 & 61.2	FEEHGII0322	20-0421-0005-0000	JAMES F. BALALA AND BEATRICE A. BALALA, HIS WIFE	CLARENCE W. MUTSCHELKNAUS	NOT LESS THAN 1/8	1123	787
			CLARENCE W. MUTSCHELKNAUS	WATKINS & WATKINS, INC.	ASSIGNMENT	1128	697
			WATKINS & WATKINS INC	KEPCO INC	ASSIGNMENT	1128	774
			KEPCO INC	MARK PRODUCING INC	ASSIGNMENT	1142	343
			KEPCO INC	EASTERN KENTUCKY PRODUCTION COMPANY	MERGER/NAME CHANGE	WVSOS	
			EASTERN KENTUCKY PRODUCTION COMPANY FKA KEPCO INC	KEPCO RESOURCES INC	ASSIGNMENT	1159	443
			KEPCO RESOURCES INC	UNION DRILLING IN	MERGER/NAME CHANGE	50	544
			UNION DRILLING INC	EQUITABLE RESOURCES EXPLORATION INC	ASSIGNMENT	1189	1209
			EQUITABLE RESOURCES EXPLORATION INC., ET AL	EQUITABLE RESOURCES ENERGY COMPANY	MERGER/NAME CHANGE	52	1008
			EQUITABLE RESOURCES EXPLORATION INC.	EQUITABLE RESOURCES ENERGY COMPANY	ASSIGNMENT	1199	642
			EQUITABLE RESOURCES EXPLORATION, A DIVISION OF EQUITABLE RESOURCES ENERGY	LONE PINE OPERATING COMPANY INC	ASSIGNMENT	1254	406
			LONE PINE OPERATING COMPANY INC	R & K OIL AND GAS INC.	ASSIGNMENT	1350	1187
			R & K OIL AND GAS INC	MARK HUTSON	PARTIAL ASSIGNMENT (50%)	1363	735
			R & K OIL AND GAS INC; MARSHALL GAS & OIL CORPORATION; DIVERSIFIED RESOURCES, INC	DIVERSIFIED PRODUCTION LLC	MERGER/NAME CHANGE	10	46
			DIVERSIFIED PRODUCTION LLC	HG ENERGY II APPALACHIA LLC	ASSIGNMENT	1747	1096



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 57th Street
Charleston, West Virginia 25304

RE: Vaneck 1215 N-2H Drill Permit Revision Request – (47-041-05733)
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-2H 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.

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Ken Greynolds – WV DEP State Inspector

RECEIVED
Office Of Oil and Gas

AUG 8 2023

WV Department of
Environmental Protection

CK# 036645
Amt \$ 7500
Date 7/25/23

08/18/2023