



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

Monday, August 21, 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-6H
47-041-05730-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over a blue circular stamp.

James A. Martin
Chief

Operator's Well Number: VANECK 1215 N-6H
Farm Name: HG ENERGY II, APPALACHIA, LLC, ET AL
U.S. WELL NUMBER: 47-041-05730-00-00
Horizontal 6A New Drill
Date Modification Issued: 08/21/2023

Promoting a healthy environment.

08/25/2023

4704105730

WW-6B
(04/15)

API NO. 47- 041 - 05730
OPERATOR WELL NO. Vaneck 1215 N-6H
Well Pad Name: Vaneck 1215

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-6H 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 No

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#.

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8) Proposed Total Vertical Depth: 7,075'

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9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 28,246'

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11) Proposed Horizontal Leg Length: 19,269'

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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WW-6B
(04/15)

4704105730
 API NO. 47-041 - 05730
 OPERATOR WELL NO. Vaneck 1215 N-6H
 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 | 6465' ✓ | 6465' | 40% Excess Tail, CTS |
| Production | 5 1/2" | NEW | P-110 HP | 23 | 28246' ✓ | 28246' | 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: 2023.08.04 09:02:19 -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 = 1.15, tail yield 1.04 |
| 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 7075'. Drill horizontal leg to estimated 19,269' lateral length, 28,246' 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)B346 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D085 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*
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.



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

1215 N-6H SHL 14205552.75N 1768692.53E
1215 N-6H LP 14207032.73N 1771594.03E
1215 N-6H BHL 14225188.37N 1765178.46E

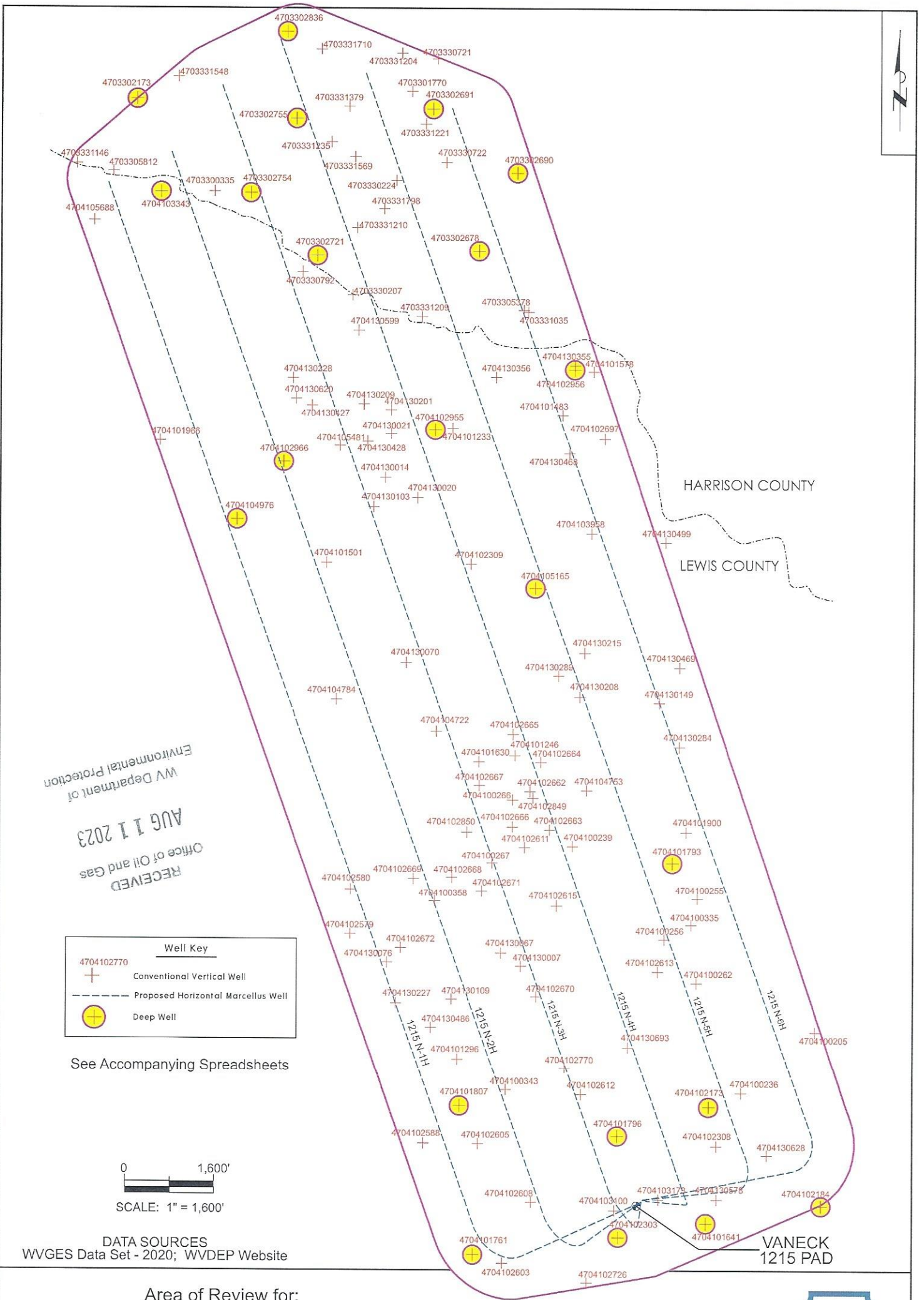
*** Storage String *** CTS ***
 15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
 B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB
 Dispersant / D095 1.5 lb per BBL 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 1254.8'
Azm 340.717°

| WELLBORE DIAGRAM | HOLE | CASING | GEOLOGY | TOP | BASE | MUD | CEMENT | CENTRALIZERS | CONDITIONING | COMMENTS | | | | | | |
|------------------|------------------------|----------------------|-----------------------------|--------------------------------------|---------------|--------------------------|--|--|---|---|-----------|------------------|---|---|---|--|
| | | | | | | | | | | | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR | CONDUCTOR |
| | 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 | 0 | 214, 600, 861 | 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 | | | | | | |
| | | | Kittanning Coal | 900 | 905 | | | | | | | | | | | |
| | | | Fresh Water Protection | 0 | 1200 | | | | | | | | | | | |
| | 17.5" | 13-3/8" 68# J-55 BTC | Little Lime | 1694 | 1714 | 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 *will also be running ACP for isolating storage zone* | 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 | | | | | | |
| | | | Big Lime | 1741 | 1818 | | | | | | | | | | | |
| | | | Injun / Garitz (Storage) | 1818 / 2073 | 1904 / 2125 | | | | | | | | | | | |
| | | | Intermediate 1 | 0 | 2250 | | | | | | | | | | | |
| | 8.75" | 9-5/8" 40# N-80 BTC | Thirty Foot | 2274 | 2286 | 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 | | | | | | |
| | | | Gordon Stray / Gordon | 2320 / 2346 | 2336 / 2446 | | | | | | | | | | | |
| 5th Sand | | | 2590 | 2612 | | | | | | | | | | | | |
| Bayard | | | 2660 | 2675 | | | | | | | | | | | | |
| Speechley | | | 3287 | 3301 | | | | | | | | | | | | |
| Benson | | | 4599 | 4615 | | | | | | | | | | | | |
| Alexander / Elk | | | 4930 / 5540 | 5100 / 5600 | | | | | | | | | | | | |
| Intermediate 2 | | | 0 | TVD: 5650' MD: 6465' Inc: 45 deg. | | | | | | | | | | | | |
| 8.5" Curve | | | 5-1/2" 23# P-110 HP CDC HTQ | Rhinestreet | 6203 | | | | | | 6444 | 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 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 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 |
| | | | | Cashaqua | 6444 | | | | | | 6650 | | | | | |
| | Middlesex | 6650 | | 6734 | | | | | | | | | | | | |
| | West River | 6734 | | 6831 | | | | | | | | | | | | |
| | Burkett | 6831 | | 6864 | | | | | | | | | | | | |
| | Tully Limestone | 6864 | | 6950 | | | | | | | | | | | | |
| | Hamilton | 6950 | | 6753 | | | | | | | | | | | | |
| | Marcellus | 7015 | | 7088 | | | | | | | | | | | | |
| | TMD / TVD (Production) | 28246 | | 7075 | | | | | | | | | | | | |
| | Onondaga | 7088 | | | | | | | | | | | | | | |

LP @ 7075' TVD / 8977' MD
 8.5" Hole - Cemented Long String
 5-1/2" 23# P-110 HP CDC HTQ
 +/- 19269 ft Lateral
 TD @ +/- 7075' TVD +/- 28246' MD
 X=Centralizers

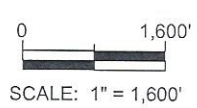
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| Well Key | |
|------------|------------------------------------|
| 4704102770 | Conventional Vertical Well |
| --- | Proposed Horizontal Marcellus Well |
| ⊕ | Deep Well |

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

08/25/2023



**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**

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| 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 | 39.166972 | -80.574796 |
| 2 | 4703301770 | Harrison | J D Hitt | Core Solutions LLC | Gordon Stray | Oil and Gas | 2666 | ACTIVE | 39.171445 | -80.561419 |
| 3 | 4703302173 | Harrison | J&D DellaBrida | Braxton Oil & Gas Co. | Alexander | Gas | 5627 | Abandoned | 39.171520 | -80.579661 |
| 4 | 4703302678 | Harrison | K W Coffindaffer | Tennile 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 | 39.165457 | -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 assgn(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 | | | | | | | |
| 30 | 4704100205 | Lewis | Flossie Riley | Dominion Energy Transmission, Inc. | Hampshire Grp | Storage | 2361 | ACTIVE | 39.125388 | -80.536900 |
| 31 | 4704100236 | Lewis | F B Riley | Dominion Energy Transmission, Inc. | Gantz | Storage | 2110 | ACTIVE | 39.122361 | -80.541592 |
| 32 | 4704100239 | Lewis | George C Francis | Dominion Energy Transmission, Inc. | Gantz | Storage | 2322 | ACTIVE | 39.134608 | -80.552219 |
| 33 | 4704100255 | Lewis | J T Bailey | Hope Natural Gas Company | Fifth | Storage | 2556 | PLUGGED | 39.132001 | -80.544329 |
| 34 | 4704100256 | Lewis | J T Bailey | Hope Natural Gas Company | Gordon Stray | Storage | 2435 | PLUGGED | 39.129980 | -80.546426 |

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|----|------------|-------|---------------------|--|------------------|-----------------|------|-----------|-----------|------------|
| 35 | 4704100262 | Lewis | Olive Thoms | Dominion Energy Transmission, Inc. | Thirty-foot | Storage | 2370 | ACTIVE | 39.12782 | -80.544402 |
| 36 | 4704100266 | Lewis | LE Gall | Hope Natural Gas Company | Gantz | Storage | 2346 | PLUGGED | 39.13691 | -80.555985 |
| 37 | 4704100267 | Lewis | LE 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 | 39.13070 | -80.544729 |
| 39 | 4704100343 | Lewis | E Haney | Eastern Gas Transmission & Storage, Inc. | Hampshire Grp | Storage | 2312 | ACTIVE | 39.12257 | -80.556467 |
| 40 | 4704100358 | Lewis | LE 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 | LE Gall | Hope Natural Gas Company | Thirty-foot | Storage | 2594 | PLUGGED | 39.139103 | -80.555840 |
| 43 | 4704101296 | Lewis | EL Haney | UNKNOWN | Gantz | Storage | 2610 | PLUGGED | 39.124106 | -80.559535 |
| 44 | 4704101483 | Lewis | D C Burnside | Diversified Resources, Inc. | Squaw | 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 (Grbr) | Oil and Gas | 1388 | 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 | -80.549369 |
| 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 | Storage | - | ABANDONED | 39.137318 | -80.554891 |
| 71 | 4704102663 | Lewis | Francis M McKinley | Dominion Energy Transmission, Inc. | not available | Storage | - | ACTIVE | 39.135429 | -80.553660 |

| | | | | | | | | | | |
|-----|------------|----------|-------------------------|--|-------------------|-----------------|------|---------------|-----------|------------|
| 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 | 39.14014 | -80.555951 |
| 74 | 4704102666 | Lewis | Norman S Small | Dominion Energy Transmission, Inc. | Hampshire Grp | Storage | 2673 | ACTIVE | 39.135587 | -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 | Fluharty 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 Winter | Dominion Energy Transmission, Inc. | undetermined unit | Storage | 2232 | ACTIVE | 39.123651 | -80.552733 |
| 84 | 4704102836 | Harrison | Robert B Weiman | Tennille Land, LLC | Elk | 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 | 39.153651 | -80.570456 |
| 90 | 4704103100 | Lewis | Marjorie Hyatt | Dominion Energy Transmission, Inc. | Big Injun (Grnbr) | Oil w/ Gas Show | 2075 | ACTIVE | 39.116597 | -80.549618 |
| 91 | 4704103173 | Lewis | Orpha Waggoner | Consolidated Gas Supply Corp. | Benson | Dry | 2089 | PLUGGED | 39.117125 | -80.546833 |
| 92 | 4704103343 | Lewis | R B Weiman | Diversified Resources, Inc. | Greenland Gap Fm | Gas | 5058 | ACTIVE | 39.166953 | -80.578187 |
| 93 | 4704103958 | Lewis | James W Wagner et al | Diversified Resources, Inc. | Fifth | Gas | 2752 | PLUGGED | 39.140307 | -80.560812 |
| 94 | 4704104722 | Lewis | W S Bennett | Dominion Energy Transmission, Inc. | not available | not available | - | PLUGGED | 39.137362 | -80.551309 |
| 95 | 4704104753 | Lewis | Allegheny Wood Products | Dominion Energy Transmission, Inc. | not available | not available | - | PLUGGED | 39.141896 | -80.567142 |
| 96 | 4704104784 | Lewis | Troy/D Rickles | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | - | ACTIVE | 39.150796 | -80.573408 |
| 97 | 4704104976 | Lewis | Phillip Burnside | Mountain V Oil and Gas, Inc. | Alexander | Gas | 5600 | ACTIVE | 39.147356 | -80.554526 |
| 98 | 4704105165 | Lewis | J Todd Hatfield | Dominion Energy Transmission, Inc. | Greenland Gap Fm | Gas | 4910 | ACTIVE | 39.154425 | -80.566885 |
| 99 | 4704105481 | Lewis | Jerry Tomes | Diversified Resources, Inc. | Hampshire Grp | Oil and Gas | 3300 | ACTIVE | 39.155574 | -80.582408 |
| 100 | 4704105688 | Lewis | John E Tyler | Diversified Resources, Inc. | - | - | - | NEVER DRILLED | 39.128685 | -80.555511 |
| 101 | 4704130007 | Lewis | L E Gall | Hope Construction & Refining | not available | not available | - | PLUGGED | 39.152835 | -80.564021 |
| 102 | 4704130014 | Lewis | Stella Freeman Hts | South Penn Oil Co. | Gordon Stray | Oil | 2778 | PLUGGED | 39.151820 | -80.561972 |
| 103 | 4704130020 | Lewis | S M Burnside | South Penn Oil Co. | Greenland Gap Fm | Oil and Gas | 3675 | PLUGGED | 39.155010 | -80.563649 |
| 104 | 4704130021 | Lewis | J L Freeman | Hope Natural Gas Company | Hampshire Grp | Oil and Gas | 3038 | PLUGGED | 39.129342 | -80.556751 |
| 105 | 4704130067 | Lewis | L O Stutler | Pittsburgh & WV Gas | Gordon | Oil and Gas | 2411 | PLUGGED | 39.143699 | -80.562714 |
| 106 | 4704130070 | Lewis | William Furley | Pittsburgh & WV Gas | Hampshire Grp | Gas | 2760 | PLUGGED | 39.128893 | -80.563980 |
| 107 | 4704130076 | Lewis | Ray & Delphia Holden | South Penn Oil (S. Penn Nat. Gas) | Hampshire Grp | Oil | 2869 | PLUGGED | 39.151384 | -80.564765 |
| 108 | 4704130103 | Lewis | Earl Freeman | South Penn Oil Co. | Hampshire Grp | Oil | 2782 | PLUGGED | 39.151384 | -80.564765 |

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Office of Oil and Gas
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WV Department of
Environmental Protection

08/25/2023

| | | | | | | | | | | | |
|-----|------------|-------|----------------------|-----------------------------------|---------------|---------------|---------------|------|---------------|-----------|------------|
| 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 | 39.126697 | -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 | Hope Natural Gas Company | 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 | 39.124656 | -80.548745 |

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Office of Oil and Gas
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08/25/2023

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

UPDATED 12/5/2022

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

1,771' to Top Hole

5,186' to Bottom Hole

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

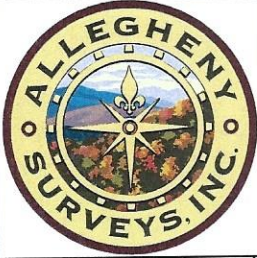
BTM LONGITUDE 80 - 32 - 30
TOP LONGITUDE 80 - 32 - 30

2,935' to Top Hole

13,623' to Bottom Hole

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

Page 1 of 2



Notes:
Well No. Vaneck 1215 N-6H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,552.75'
E: 1,768,692.53'
Landing Point Coordinates
N: 14,207,032.73'
E: 1,771,594.03'
Bottom Hole Coordinates
N: 14,225,188.37'
E: 1,765,178.46'

| Tag | Bearing | Dist. | Description |
|-----|------------|----------|---------------|
| L1 | N 86°00' W | 652.4' | 1/2" Rebar |
| L2 | N 19°39' W | 605.1' | 1/2" Rebar |
| L3 | N 35°46' E | 791.7' | 47-041-02303 |
| L4 | N 73°18' E | 558.9' | 47-041-03100 |
| L5 | N 62°59' E | 3,257.2' | Landing point |

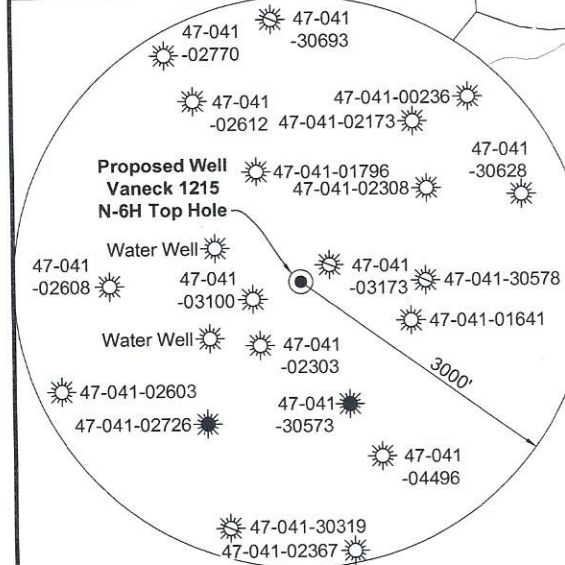
Notes: Well No. Vaneck 1215 N-6H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'00.98" Latitude: 39°10'15.31"
Longitude: 80°32'52.48" Longitude: 80°33'35.87"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,861.138m N: 4,335,846.087m
E: 539,098.561m E: 538,027.471m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
references are based upon the magnetic meridian.



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



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-6H MOD Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: February 28 2023
OPERATOR'S WELL NO. Vaneck 1215 N-6H MOD
API WELL NO
47 - 041 - 05730
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: Btm: Big Isaac
Top: Camden

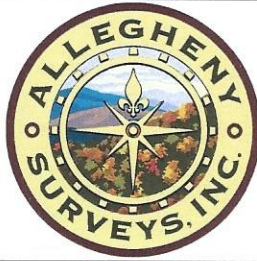
DISTRICT: Freemans Creek
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al

COUNTY: Lewis
ACREAGE: 56.00

ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00

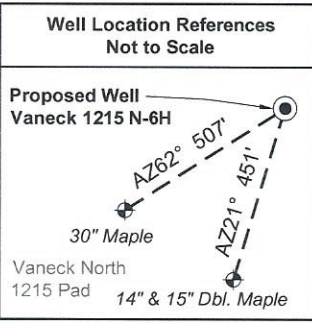
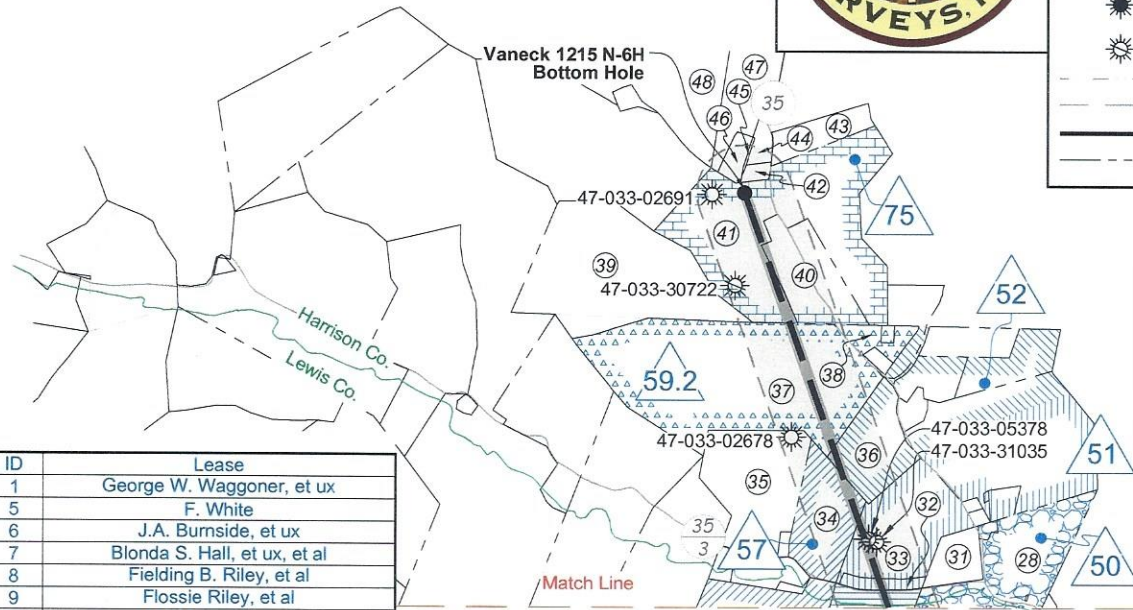
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ BH-MOD _____ 7.075' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,246' MD

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



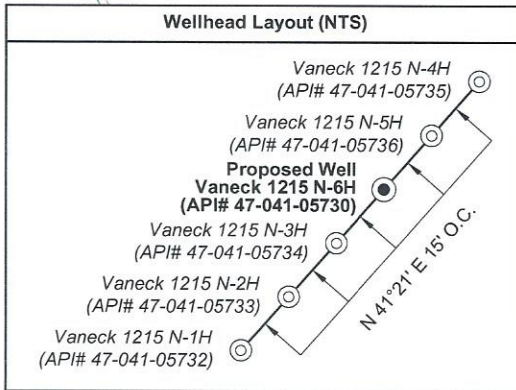
Legend

- 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.)



| ID | Lease |
|------|---|
| 1 | George W. Waggoner, et ux |
| 5 | F. White |
| 6 | J.A. Burnside, et ux |
| 7 | Blonda S. Hall, et ux, et al |
| 8 | Fielding B. Riley, et al |
| 9 | Flossie Riley, et al |
| 10 | N.A. Lovett, et ux |
| 11 | Hudson Bailey, et ux |
| 12 | Hunter M. Bennett, et ux |
| 23 | George I. Davisson, et al |
| 26 | Francis M. McKinley, et ux |
| 36 | J.A. White, et ux |
| 37 | Guffey Oil and Gas Royalties, Inc. |
| 39.2 | Dovener C. Burnside, et ux |
| 50 | William A. Booth, et ux |
| 51 | Harvey Morris, et ux |
| 52 | CNX Gas Company, LLC |
| 57 | James Bradford Halcums |
| 58 | John M. Flanagan |
| 59.2 | Christopher D. & Nikki B. Curry, JTWROS |
| 75 | Martha Lewis |

| 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 / 25 | Raymond C. & Colona J. Waggoner | 567 / 416 | 45.48 |
| 3 | 5C / 27.2 | Jack E. & Cerilda M. Waggoner | 547 / 691 | 57.97 |
| 4 | 5C / 22 | Linda L. Waggoner | W33 / 157 | 57.76 |
| 5 | 5C / 39 | Phillip E. Burnside | 666 / 503 | 47.00 |
| 6 | 5C / 38 | Phillip E. Burnside | 766 / 831 | 4.25 |
| 7 | 5C / 37 | Phillip E. Burnside | 766 / 831 | 83.75 |
| 8 | 5C / 32 | Robert S. Gloffely | 399 / 241 | 94.40 |
| 9 | 5C / 31 | Nancy Hayhurst, et al | F30 / 392 | 13.75 |
| 10 | 5C / 30 | Woody Lumber Co., Inc. | 590 / 438 | 140.50 |
| 11 | 5B / 18 | Mike Ross Inc. | 659 / 215 | 279.97 |
| 12 | 5B / 19 | Theodore J. & Jacqueline Riley | 578 / 99 | 35.00 |
| 13 | 5B / 55 | Debora Burnside Garrett, et al | WB R / 525 | 25.00 |
| 14 | 5B / 17 | Mike Ross, Inc. | 659 / 215 | 3.50 |
| 15 | 5B / 21 | Theodore J. & Jacqueline Riley | 467 / 254 | 140.00 |
| 16 | 5B / 31 | Mannie R. & Doris Griffith (L/E) | 652 / 69 | 64.04 |
| 17 | 5B / 25.1 | Jeffrey P. & Anessa E. Griffith | 745 / 338 | 118.29 |
| 18 | 5B / 29 | Kelly Joanne Bowie | 622 / 463 | 32.00 |
| 19 | 5B / 27 | Kelly Joanne Bowie | 622 / 463 | 6.25 |
| 20 | 5B / 43 | Brian K. & Debra D. Lough | 728 / 285 | 43.77 |
| 21 | 5B / 26 | Dawna Jo Burnside | 762 / 219 | 52.00 |
| 22 | 5A / 12 | Jeffrey P. & Anessa E. Griffith | 745 / 162 | 47.84 |
| 23 | 5A / 12.1 | Jeffrey P. & Anessa E. Griffith | 745 / 162 | 47.84 |
| 24 | 5A / 8 | Robert F. Burnside | 710 / 276 | 32.61 |
| 25 | 5A / 6 | Jeffrey P. & Anessa E. Griffith | 692 / 498 | 78.00 |
| 26 | 5A / 2 | Jerry Tomes | W17 / 336 | 42.00 |
| 27 | 5A / 7 | Robert F. Burnside | 710 / 276 | 1.50 |



| Harrison Co. - Union-Outside Dist. | | | | |
|------------------------------------|------------|---|-------------|-------|
| No. | TM / Par | Owner | Bk / Pg | Ac. |
| 28 | 421 / 44 | Matthew C. & Shana L. Gould | 1468 / 1020 | 51.21 |
| 29 | 421 / 36 | Sterling & Sheila Smith | 1416 / 875 | 23.00 |
| 30 | 421 / 35 | Marion Dougherty | 1464 / 1331 | 34.00 |
| 31 | 421 / 38 | Atlantic Coast Pipeline | 1616 / 421 | 6.00 |
| 32 | 421 / 43.4 | John Puddister | 1536 / 225 | 2.39 |
| 33 | 421 / 43.3 | Ray M. Moser, Jr. | 1291 / 1136 | 29.11 |
| 34 | 421 / 37 | Ray M. Moser, Jr. | 1291 / 1136 | 17.32 |
| 35 | 421 / 31 | Albert L. Lewis | 1294 / 989 | 28.00 |
| 36 | 421 / 25 | Scott H. Curry | 1536 / 282 | 14.34 |
| 37 | 421 / 11.2 | Christopher D. & Nikki B. Curry | 1616 / 417 | 70.00 |
| 38 | 421 / 11 | Matthew Curry | 1627 / 405 | 6.05 |
| 39 | 421 / 10 | Christopher D. & Nikki B. Curry | 1616 / 417 | 46.00 |
| 40 | 421 / 12 | Ernest L. & Carol Coffindaffer | 1247 / 891 | 15.60 |
| 41 | 421 / 13 | Burl L. Post & Susan L. Carr | 1356 / 775 | 59.21 |
| 42 | 401 / 15.3 | Justin S. Clowser | 1468 / 893 | 1.09 |
| 43 | 401 / 15.1 | Harold D. Devericks, Jr. | 1709 / 422 | 7.20 |
| 44 | 401 / 15 | Lisa M. Rue | 1625 / 867 | 3.33 |
| 45 | 401 / 15.2 | Trustees Mt. Lebanon Cemetery | 1319 / 325 | 0.18 |
| 46 | 401 / 14 | Mt. Lebanon Baptist Church | 337 / 466 | 2.50 |
| 47 | 401 / 13 | Betty J. Mitchell & Violet J. Critchfield | W116 / 910 | 32.91 |
| 48 | 401 / 12 | Betty J. Mitchell & Violet J. Critchfield | W116 / 910 | 36.12 |

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-6H MOD Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: February 28 2023
OPERATOR'S WELL NO. Vaneck 1215 N-6H MOD
API WELL NO
47 - 041 - 05730
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) _____ BH-MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,246' MD 7,075' TVD

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

08/25/2023

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

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

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

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

See Attached Sheets

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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 N-6H

08/25/2023

| TAX MAP | LEASE NUMBER | GRANTOR/LESSOR | GRANTEE/LESSEE | ROYALTY | DEED BOOK | PAGE |
|---------|--------------|---|--|---|-----------|------|
| | | 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 | 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 | WVSOS | |
| | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | 154 |
| | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 672 |
| | | 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 |
| | | | | | | |
| | | F. WHITE | SOUTHERN OIL COMPANY | NOT LESS THAN 1/8 | 40 | 62 |
| | | I. N. BARNSDALL, SOUTHERN OIL COMPANY, AND FRED S. RICH | RESERVE GAS COMPANY | ASSIGNMENT | 85 | 106 |
| | | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | CONFIRMATORY DEED | 155 | 202 |
| | | 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 | 154 |
| | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 672 |
| | | 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 |

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p/o 03-005C-0022-0000
p/o 03-005C-0022-0001
p/o 03-005C-0025-0000
p/o 03-005C-0027-0002
03-005C-0045-0000
03-005C-0046-0000
03-005D-0020-0000
p/o 03-005D-0035-0000
p/o 03-005D-0036-0000
03-005D-0036-0001
03-005D-0037-0000
03-005D-0038-0000
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| <p>03-005C-0038-0000 03-005C-0039-0000 p/o 03-005C-0022-0000</p> | <p>Q100785000</p> | J. A. BURNSIDE AND ELA BLANCHE BURNSIDE, HIS WIFE, EACH IN THEIR OWN RIGHT | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 209 | 429 |
| | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | CONSOLIDATED GAS SUPPLY CORPORATION | CNG TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WV505 | |
| | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | WV505 | 154 |
| | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 57 |
| | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (50%) | 684 | 848 |
| | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | |
| | | 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 | WV505 | |
| | | 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 |
| <p>03-005C-0037-0000 03-005C-0040-0000 03-005C-0041-0000</p> | <p>Q101057000</p> | HOPE NATURAL GAS COMPANY | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 222 | 449 |
| | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WV505 | |
| | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | WV505 | 154 |
| | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 57 |
| | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 848 |
| | | DOMINION TRANSMISSION, INC. | NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | |
| | | 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 | WV505 | |
| | | 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 |
| <p>03-005C-0032-0000 03-005C-0033-0000</p> | <p>Q100334000</p> | N. A. LOVETT AND S. E. A. LOVETT, HIS WIFE | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 42 | 109 |
| | | SOUTH PENN OIL COMPANY | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 42 | 109 |
| | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 85 | 127 |
| | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 294 | 89 |
| | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | 425 | 127 |
| | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WV505 | |
| | | 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 |
| | | DOMINION TRANSMISSION, INC. | NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT | 717 | 1 |

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| 03-005C-0031-0000 | Q100352000 | 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 |
| | | FLOSSIE RILEY, WIDOW; AND RUBY M. RILEY, SINGLE | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| | | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 191 | 506 |
| | | HOPE NATURAL GAS COMPANY | HOPE NATURAL GAS COMPANY | CONFIRMATORY DEED | 155 | 202 |
| | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | |
| | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | WVSOS | |
| | | CNX GAS COMPANY LLC | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| | | DOMINION TRANSMISSION, INC. | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| | | NOBLE ENERGY, INC. | NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | 848 |
| DOMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | ASSIGNMENT | 717 | 1 | | |
| DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 | | |
| DOMINION ENERGY 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 | FARMOUT AGREEMENT | 736 | 220 | | |
| FIELDING B. RILEY AND SAMUEL M. RILEY AND M. V. RILEY | E. W. BOYD | ASSIGNMENT (68%) | 734 | 558 | | |
| E. W. BOYD | E. W. BOYD | NOT LESS THAN 1/8 | 736 | 220 | | |
| S. E. BARRETT | S. E. BARRETT | ASSIGNMENT | 35 | 235 | | |
| LOUIS BENNETT | LOUIS BENNETT | ASSIGNMENT | 30 | 369 | | |
| LOUIS BENNETT AND S. E. BARRETT | J. M. GUFFEY AND JNO. H. GALEY | ASSIGNMENT (50%) | 36 | 517 | | |
| S. E. BARRETT | J. M. GUFFEY AND JNO. H. GALEY | ASSIGNMENT (75%) | 71 | 14 | | |
| LOUIS BENNETT | J. M. GUFFEY AND JNO. H. GALEY | ASSIGNMENT | 44 | 569 | | |
| J. M. GUFFEY AND JNO. H. GALEY | J. M. GUFFEY AND JNO. H. GALEY | ASSIGNMENT | 44 | 571 | | |
| THE PHILADELPHIA COMPANY OF WEST VIRGINIA | 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 | PITTSBURG AND WEST VIRGINIA GAS COMPANY | ASSIGNMENT | 125 | 379 | | |
| PITTSBURG AND WEST VIRGINIA GAS COMPANY | PITTSBURG AND WEST VIRGINIA GAS COMPANY | DEED | 125 | 371 | | |
| EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY | EQUITABLE GAS COMPANY | ASSIGNMENT | 125 | 371 | | |
| HOPE NATURAL GAS COMPANY | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 216 | 185 | | |
| HOPE NATURAL GAS COMPANY | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 246 | 192 | | |
| CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 | | |
| CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 | | |
| CNG TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 | | |
| DOMINION TRANSMISSION, INC. | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | | | |
| DOMINION TRANSMISSION, INC. | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | | | |
| CNX GAS COMPANY LLC | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | WVSOS | | | |
| DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 | | |
| CNX GAS COMPANY LLC | CNX GAS COMPANY LLC AND 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 | | |
| DOMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | | | |

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| 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 |
| HUDSON BAILEY AND CHARLOTTE BAILEY, HIS WIFE | NOT LESS THAN 1/8 | | 33 | 424 |
| JAMES M. GUFFEY AND JOHN H. GALEY | ASSIGNMENT | | 44 | 583 |
| THE PHILADELPHIA COMPANY OF WEST VIRGINIA | ASSIGNMENT | | 85 | 141 |
| PITTSBURG AND WEST VIRGINIA GAS COMPANY | ASSIGNMENT | | 216 | 185 |
| EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY | ASSIGNMENT | | 246 | 192 |
| HOPE NATURAL GAS COMPANY | CONFIRMATORY DEED | | 294 | 89 |
| CONSOLIDATED GAS SUPPLY CORPORATION | ASSIGNMENT | | 425 | 127 |
| CONSOLIDATED GAS TRANSMISSION CORPORATION | MERGER/NAME CHANGE | | WVSOS | |
| CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | | WVSOS | |
| DOMINION TRANSMISSION, INC. | MEMORANDUM OF FARMOUT AGREEMENT | | 672 | 154 |
| CNX GAS COMPANY LLC | LIMITED PARTIAL ASSIGNMENT (50%) | | 684 | 57 |
| DOMINION TRANSMISSION, INC. | PARTIAL ASSIGNMENT (32%) | | 712 | 848 |
| CNX GAS COMPANY LLC | ASSIGNMENT | | 717 | 1 |
| DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | | WVSOS | |
| DOMINION ENERGY TRANSMISSION, INC. | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | | 723 | 499 |
| DOMINION ENERGY TRANSMISSION, INC. | THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | | 734 | 558 |
| DOMINION ENERGY TRANSMISSION, INC. | ASSIGNMENT (68%) | | 736 | 220 |
| HUNTER M. BENNETT AND MADGE BENNETT, HIS WIFE | NOT LESS THAN 1/8 | | 153 | 185 |
| OLIVE THOMAS | NOT LESS THAN 1/8 | | 171 | 379 |
| JASON G. BAILEY AND MINNIE E. BAILEY, HIS WIFE | NOT LESS THAN 1/8 | | 237 | 128 |
| HOPE NATURAL GAS COMPANY | CONFIRMATORY DEED | | 294 | 89 |
| CONSOLIDATED GAS SUPPLY CORPORATION | ASSIGNMENT | | 425 | 127 |
| CONSOLIDATED GAS TRANSMISSION CORPORATION | MERGER/NAME CHANGE | | WVSOS | |
| CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | | WVSOS | |
| DOMINION TRANSMISSION, INC. | MEMORANDUM OF FARMOUT AGREEMENT | | 672 | 154 |
| DOMINION TRANSMISSION, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | | 684 | 57 |
| CNX GAS COMPANY LLC | PARTIAL ASSIGNMENT (32%) | | 712 | 848 |
| DOMINION TRANSMISSION, INC. | ASSIGNMENT | | 717 | 1 |
| NOBLE ENERGY, INC. | ASSIGNMENT | | 722 | 170 |
| DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | | WVSOS | |
| DOMINION ENERGY TRANSMISSION, INC. | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | | 723 | 499 |
| DOMINION ENERGY TRANSMISSION, INC. | THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | | 734 | 558 |
| DOMINION ENERGY TRANSMISSION, INC. | ASSIGNMENT (68%) | | 736 | 220 |
| GEORGE J. DAVISSON, BY COMMITTEE FOR JOHN T. BAILEY, INC/CONTENTENT | NOT LESS THAN 1/8 | | 172 | 30 |
| HOPE NATURAL GAS COMPANY | CONFIRMATORY DEED | | 294 | 89 |
| CONSOLIDATED GAS SUPPLY CORPORATION | ASSIGNMENT | | 425 | 127 |
| CONSOLIDATED GAS TRANSMISSION CORPORATION | MERGER/NAME CHANGE | | WVSOS | |

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|--|------------|--|---|---|--|------------------------------|
| 03-005B-0020-0000 03-005B-0021-0000 | Q100493000 | CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. | 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. | 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 | WWSOS 672 684 712 717 722 WWSOS 723 | 154 57 848 1 170 |
| 03-005B-0025-0000 03-005A-0025-0001 03-005B-0025-0002 | Q100776000 | DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. NOBLE ENERGY, INC. NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. | THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT FARMOUT AGREEMENT PARTIAL ASSIGNMENT (32%) ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT FARMOUT AGREEMENT ASSIGNMENT (68%) NOT LESS THAN 1/8 MODIFICATION OF LEASE 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 | WWSOS 672 684 712 717 722 WWSOS 723 | 154 57 848 1 170 |
| 03-005A-0013-0000 03-005A-0014-0000 03-005A-0015-0000 03-005B-0026-0000 03-005B-0027-0000 20-0442-0005-0000 p/o 20-442-0004-0001 p/o 20-422-0029-0000 | Q100365000 | J. A. WHITE AND J. ALICE WHITE, HIS WIFE J. A. WHITE AND J. ALICE WHITE, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. | LOUIS BENNETT HOPE NATURAL GAS COMPANY AND LOUIS BENNETT 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. | NOT LESS THAN 1/8 MODIFICATION OF LEASE 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 | WWSOS 672 684 712 717 722 WWSOS 723 | 154 57 848 1 170 |

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| 37 | 03-005A-0008-0000 | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | 734 | 558 |
| | 03-005A-0009-0000 | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| | 03-005A-0010-0000 | GUFFEY OIL AND GAS ROYALTIES, INC. (Q143841001) | E. DAVISSON HARDMAN | NOT LESS THAN 1/8 (171 ACRES) | 388 | 65 |
| | 03-005A-0012-0000 | EARL FREEMAN (Q143841002) | E. DAVISSON HARDMAN | NOT LESS THAN 1/8 (104 ACRES) | 395 | 553 |
| | 03-005A-0012-0001 | CENTRAL-PITTSBURGH COAL CORPORATION | E. DAVISSON HARDMAN | NOT LESS THAN 1/8 (10 ACRES) | 1113 | 98 |
| | 20-0442-0001-0000 | OWEN J. SCHMITT (Q0989904000) | CNX GAS COMPANY | NOT LESS THAN 1/8 (7.53 ACRES) | 700 | 70 |
| | 20-0442-0001-0000 | E. DAVISSON HARDMAN | J. ROBERT HORNOR | ASSIGNMENT (388/65 & 395/553) | 1111 | 791 |
| | 20-0442-0002-0000 | E. DAVISSON HARDMAN | J. ROBERT HORNOR | ASSIGNMENT (1113/98) | 1117 | 375 |
| | 20-0442-0003-0000 | J. ROBERT HORNOR | STONEWALL GAS COMPANY | ASSIGNMENT (388/65 & 395/553) | HARRISON 1118 | 331 |
| | | J. ROBERT HORNOR | STONEWALL GAS COMPANY | ASSIGNMENT (1113/98) | LEWIS 408 | 636 |
| | | JESSE PAUL BURNSIDE AND BETTY BURNSIDE, HUSBAND AND WIFE | STONEWALL GAS COMPANY | NOT LESS THAN 1/8 (32.61 ACRES) | HARRISON 1118 | 876 |
| | | STONEWALL GAS COMPANY | DOMINION APPALACHIAN DEVELOPMENT INC. | MERGER/NAME CHANGE | 421 | 256 |
| | | DOMINION APPALACHIAN DEVELOPMENT LLC | CONSOL GAS RESERVES INC | MERGER/NAME CHANGE | 59 | 1086 |
| | | CONSOL GAS RESERVES, INC. | CONSOL GAS COMPANY | MERGER/NAME CHANGE | WWSOS | 961 |
| | 39 | 03-005A-0012-0001 | CONSOL GAS COMPANY | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | WWSOS |
| 20-0442-0001-0000 | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | MERGER/NAME CHANGE | 717 | 1 |
| 20-0442-0001-0000 | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (700/70) (388/65) (395/553) | 727 | 765 |
| 20-0442-0001-0000 | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (388/65) (395/553) | 722 | 170 |
| | | NOBLE ENERGY, INC. | HOPE NATURAL GAS COMPANY | ASSIGNMENT (700/70) | 722 | 170 |
| | | DOVENER C. BURNSIDE AND DORTHA M. BURNSIDE | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 238 | 431 |
| | | DOVENER C. BURNSIDE AND DORTHA M. BURNSIDE | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 237 | 134 |
| | | 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 | WWSOS | |
| | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WWSOS | |
| | | DOMINION TRANSMISSION, INC. | DOMINION TRANSMISSION, INC. | ASSIGNMENT | 658 | 715 |
| | | CNX GAS COMPANY LLC | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 776 | 976 |
| | | WILLIAM A. BOOTH AND EVELYN Y. BOOTH, HIS WIFE | PIONEER PETROLEUM INC | NOT LESS THAN 1/8 | 899 | 226 |
| 50 | | 20-0421-0044-0000 | PIONEER PETROLEUM INC | PIONEER PETROLEUM INC | ASSIGNMENT | 1099 |
| | 20-0421-0044-0001 | E. DAVISSON HARDMAN | E. DAVISSON HARDMAN | ASSIGNMENT | 1094 | 879 |
| | 20-0421-0044-0003 | J. ROBERT HORNOR | STONEWALL GAS COMPANY | ASSIGNMENT | 1097 | 844 |
| | | J. ROBERT HORNOR | DOMINION APPALACHIAN DEVELOPMENT INC. | MERGER/NAME CHANGE | 59 | 1086 |
| | | STONEWALL GAS COMPANY | DOMINION APPALACHIAN DEVELOPMENT INC. | MERGER/NAME CHANGE | 59 | 1335 |
| | | DOMINION APPALACHIAN DEVELOPMENT LLC | DOMINION APPALACHIAN DEVELOPMENT LLC | MERGER/NAME CHANGE | 59 | 936 |
| | | DOMINION APPALACHIAN DEVELOPMENT LLC | CONSOL GAS APPALACHIAN DEVELOPMENT LLC | MERGER/NAME CHANGE | 1472 | 294 |
| | | CONSOL GAS APPALACHIAN DEVELOPMENT LLC | CONSOL GAS RESERVES INC | MERGER/NAME CHANGE | 1472 | 294 |
| | | CONSOL GAS RESERVES, INC. | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | 1472 | 294 |
| | | CNX GAS COMPANY LLC | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 1722 | 728 |
| | | CNX GAS COMPANY LLC | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8 | 1723 | 555 |
| | | John M. Flanagan | The Sidney Austin Smith Trust, LLC | AFFIDAVIT OF STATUTORY COMPLIANCE - | | |
| | | The Sidney Austin Smith Trust, LLC | HG ENERGY II APPALACHIA, LLC | COTENANCY (Working Interest Election) | 59 | 304 |
| | | Morris Mountaineer Oil and Gas, LLC | HG ENERGY II APPALACHIA, LLC | AFFIDAVIT OF STATUTORY COMPLIANCE - | | |
| | | Morris Mountaineer Oil and Gas, LLC | HG ENERGY II APPALACHIA, LLC | COTENANCY (Working Interest Election) | 59 | 304 |
| | JP Morgan Chase Bank, National Association, Trustee under a Trust Agreement dated November 15, 1988, made by William Y. Morris, et al | HG ENERGY II APPALACHIA, LLC | AFFIDAVIT OF STATUTORY COMPLIANCE - | | | |
| | JP Morgan Chase Bank, National Association, Trustee under a Trust Agreement dated November 15, 1988, made by William Y. Morris, et al | HG ENERGY II APPALACHIA, LLC | COTENANCY (Production Royalty Election) | 59 | 304 | |
| | Mike Ross, Inc. | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8 | 1712 | 443 | |

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20-0421-0011-0001

HGI102418 ET AL

20-0421-0011-0002

HGI102418 ET AL

20-421-22
20-421-22.1
20-421-24.1

52

| | | | | |
|--|------------------------------|-----------------------|------------|------|
| Waco Oil & Gas | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8 | 1721 | 794 |
| James Bradford Halcoms | HG ENERGY II APPALACHIA LLC | MINERAL DEED | 1710 | 325 |
| Robert Earl Halcoms | HG ENERGY II APPALACHIA LLC | MINERAL DEED | 1709 | 1349 |
| Jann A. Claxton Patton | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1735 | 739 |
| Kathryn M. Yurgatis Hannus | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1739 | 487 |
| Christine Simone Kelly FKA Christine Simone Yurgatis | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1741 | 1092 |
| Peter Phillip Yurgatis | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1735 | 929 |
| Stephen David Collier | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1736 | 1015 |
| Susan Kathleen Collier Phillips | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1736 | 1019 |
| Robert Ivan Preston | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1734 | 942 |
| Carey Ann Ownby and Christopher Ownby, JTWR0S | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1736 | 1023 |
| James L. Collins and Joanne Collins, JTWR0S | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1737 | 139 |
| Krista Ownby-Duchane | HG ENERGY II APPALACHIA LLC | MINERAL DEED | 1737 | 1052 |
| Jessica Ownby | HG ENERGY II APPALACHIA LLC | MINERAL DEED | 1737 | 787 |
| Cody Ownby | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1736 | 776 |
| Jennifer Collins | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1737 | 136 |
| Jessica Collins-Guglielmo | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1738 | 381 |
| Jason Collins | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1741 | 927 |
| Peaceful Valley Donkey Rescue aka Peaceful Valley Donkey Sanctuary by Amy Meyers, CFO | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1736 | 781 |
| Blount County Animal Center AKA Smoky Mountain Blount County Animal Shelter by Charles Ratford, Director | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1737 | 152 |
| Jessica Anne Collier | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Heirs of Ruth Bernice Clemans Hamilton | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| D.E.L.T.A. Rescue, Inc. | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Northshore Animal League of America | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| ASPCA | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Guiding Eyes for the Blind, Inc. by Susan Ludwig, Assistant Treasurer and Controller | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Save the Chimps, Inc. | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| St. Jude's Children Hospital | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Vested Interest in K-9's, Inc. | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Mutts with a Mission, by Brooke Corson, Executive Director | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Christopher D. Curry and Nikki B. Curry, as joint tenants with the right of survivorship | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1743 | 436 |
| Pamela Jane Hughes | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1735 | 106 |
| CNX Gas Company | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8 | 1755 | 1308 |
| Matthew Currey | HG ENERGY II APPALACHIA, LLC | Horizontal Unit Order | Docket 322 | 338 |
| Darrell Richards DBA Richards Resources | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1748 | 1232 |
| David E. Bower DBA Richards Resources | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1748 | 1230 |
| Christopher D. Curry and Nikki B. Curry, as joint tenants with the right of survivorship | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1743 | 436 |
| Pamela Jane Hughes | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1735 | 106 |
| CNX Gas Company | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1755 | 1308 |
| Darrell Richards DBA Richards Resources | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1748 | 1232 |
| David E. Bower DBA Richards Resources | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1748 | 1230 |
| CNX Gas Company LLC | HG ENERGY II APPALACHIA LLC | NOT LESS THAN 1/8 | 1755 | 1298 |

08/25/2023

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|--|--|---|--|--|---|--|
| 20-421-25 p/o 20-421-43.1 p/o 20-421-21 | | James Ivan McDonald Betty Fridley William Michael McDonald | HG ENERGY II APPALACHIA LLC HG ENERGY II APPALACHIA LLC HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8 NOT LESS THAN 1/8 Horizontal Unit Order | 1756 1750 Docket 322 | 343 144 338 |
| 51 20-421-0042-0000 p/o 20-421-0043-0001 20-421-0043-0002 20-421-0043-0003 20-421-0043-0004 | | HARVEY MORRIS AND M.J. MORRIS, HIS WIFE SOUTH PENN OIL COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. DOMINION EXPLORATION & PRODUCTION INC. DOMINION TRANSMISSION INC; AND DOMINION APPALACHIAN DEVELOPMENT LLC | SOUTH PENN OIL COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. DOMINION EXPLORATION & PRODUCTION INC | NOT LESS THAN 1/8 ASSIGNMENT ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE NOT LESS THAN 1/8 | 1750 118 204 903 1136 51 58 1424 | 144 490 432 179 250 795 362 148 |
| 75 20-0421-0012-0000 20-0421-0013-0000 | | MARTHA LEWIS, WIDOW GLADA M. GASTON, WIDOW JOHN R. MORRIS AS POWER OF ATTORNEY FOR WILLIAM Y. MORRIS AND VIRGINIA MORRIS, HIS WIFE; ROBERT H. MORRIS AND LOIS T. MORRIS, HIS WIFE; RUTH E. WATSON, WIDOW; JOHN R. MORRIS AND JEAN D. MORRIS ROSA MOUNTS, WIDOW ORIAN A. POST AND DORA E. POST, HIS WIFE JAMES E. CARR BURL L. POST CLARENCE W. MUTSCHELKNAUS J & J ENTERPRISES INC CLARENCE W. MUTSCHELKNAUS, SR., CLARENCE W. MUTSCHELKNAUS, JR., AND HELEN SUZANNE OSBORNE ANTERO RESOURCES APPALACHIAN CORPORATION | ANTERO RESOURCES APPALACHIAN CORPORATION CLARENCE W. MUTSCHELKNAUS CLARENCE W. MUTSCHELKNAUS CLARENCE W. MUTSCHELKNAUS CLARENCE W. MUTSCHELKNAUS ANTERO RESOURCES CORPORATION ANTERO RESOURCES CORPORATION ANTERO RESOURCES CORPORATION ANTERO RESOURCES CORPORATION ANTERO RESOURCES APPALACHIAN CORPORATION ANTERO RESOURCES CORPORATION | PARTIAL ASSIGNMENT NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 ASSIGNMENT (LEASE A & B) ASSIGNMENT (LEASE A & B) ASSIGNMENT MERGER/NAME CHANGE | 1424 1097 1097 1097 1100 1110 1110 1627 1627 1627 1101 1105 1483 2 | 642 631 946 1096 772 517 589 592 792 769 1208 914 |

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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 57th Street
Charleston, West Virginia 25304

*Ch # 36649
7500.00*

RE: Vaneck 1215 N-6H Drill Permit Revision Request – (47-041-05730)
Freeman's Creek District, Lewis County
West Virginia

Dear Mr. Blevins -

Per our discussions, enclosed are revised forms (survey plat, mylar, WW-6B, casing schematic, AOR and WW-6A1) and a check for expedited service for the 1215 N-6H 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 lease.

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

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