

west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

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

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit Modification Approval for VAN WIE 1221 N-2H

47-041-05761-00-00

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.

Operator's Well Number: VAN WIE 1221 N-2H

Farm Name: HG ENERGY II APPALACHIA, LLC ET AL

U.S. WELL NUMBER: 47-041-05761-00-00

Horizontal 6A New Drill

Date Modification Issued: 12/03/2024

Promoting a healthy environment.

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

| 1) Well Operator: HG Energ | y II Appalachia, 🛔 4945199 | 932 Lewis | Freeman Vadis 7.5' |
|--|--|--|--|
| | Operato | r ID County | District Quadrangle |
| 2) Operator's Well Number: V | | | |
| | | | R 11/3 aka Straight Run Road |
| 4) Elevation, current ground:5) Well Type (a) Gas x | 1050 | oposed post-constructi Underground Storag | on: 1251.7' |
| Other | | | |
| | | Jeep | |
| | orizontal X | | |
| 6) Existing Pad: Yes or No No | | | |
| 7) Proposed Target Formation(Marcellus at 7002' / 7049' and | s), Depth(s), Anticipated Thic 147' in thickness. Anticipated p | ekness and Expected Proressure at 4314#. | ressure(s): |
| 8) Proposed Total Vertical Dep | | | |
| 9) Formation at Total Vertical I | Depth: Marcellus | | |
| 10) Proposed Total Measured D | | | |
| 11) Proposed Horizontal Leg Le | ength: 21,483' | | |
| 12) Approximate Fresh Water S | Strata Depths: 150', 181' | ', 826' | |
| 13) Method to Determine Fresh | | set well data, (47-017 | -02906, 2480, 4233,) |
| 14) Approximate Saltwater Dep | ths: NA | | |
| 15) Approximate Coal Seam De | epths: 220' - 225', 428'-438', 495'-50 | 1' (Surface casing is being ext | ended to cover the coal in the DTI Field) |
| 16) Approximate Depth to Possi | | | |
| 17) Does Proposed well locatior directly overlying or adjacent to | n contain coal seams an active mine? Yes | No | X |
| (a) If Yes, provide Mine Info: | Name: | | |
| | Depth: | | Office of Oil and Gas |
| | Seam: | | |
| | Owner: | | NOV 08 2024 |
| | | | WV Department of Environmental Protection |

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API NO. 47-704105761

OPERATOR WELL NO. Van Wie 1221 N-2H
Well Pad Name: Van Wie 1221

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVA Left in W | | CEMENT: Fill-up |
|------------------|-----------|-------------|------------|---------------------------|----------------------------|----------------------|---|-----------------------|
| Conductor | 30" | New | LS | 157.5 | 120' | (<u>ft)</u> 120' | / | (Cu. Ft.)/CTS |
| Fresh Water/Coal | 20" | NEW | J-55 | 94 | 1225' | 1225' | | 40% Excess, CTS |
| Intermediate 1 | 13 3/8" | NEW | J-55 BTC | 68 | 2760' | 2760' | | 40% Excess, CTS |
| Intermediate 2 | 9 5/8" | NEW | N/L-80 BTC | 40 | 5700' | 5700' | 1 | 40% Excess Tail, CTS |
| Production | 5 1/2" | NEW | P-110 HP | 23 | 28941' | 28941' | 1 | 20% Excess Tail, CTS |
| Tubing | | | | | | 20011 | | 2070 Excess Tall, CTS |
| Liners | | | | | | | | |

Kenneth Greynolds

Digitally signed by: Kenneth Greynolds

No. CN = Kenneth Greynolds

Signature (CN = Kenneth Greynolds)

Gas

Base: 2024.10.23 09:54.00.04007

| TYPE | | Wellbore | Wall | D (D | Anticipated | | Cement |
|------------------|-----------|---------------|----------------|----------------------|---|----------------------------|--|
| | Size (in) | Diameter (in) | Thickness (in) | Burst Pressure (psi) | Max. Internal Pressure (psi) | Cement Type | Yield |
| Conductor | 30" | 30" | .500 | | ressure (psi) | | (cu. ft./k) Drilled In |
| Fresh Water/Coal | 20" | 26" | .438 | 2110 | 1200 | Type 1, Class A | / |
| Intermediate I | 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 | |
| Production | 5 1/2" | 8 1/2" | .415 | 16240 | 12500 | 30975554(S207-S207993000) | 20% excess yield = 1.19, tail yield 1.94 |
| Tubing | | | | | 12000 | 1700 17018337 | + |
| Liners | | | | | | | |

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Office of Oil and Gas

PACKERS

NOV 08 2024

| Kind: | 1101 00 |
|-------------|---|
| Sizes: | WV Department of Environmental Protection |
| Depths Set: | |
| | |

OPERATOR WELL NO. Van Wie 1221 N-2H Well Pad Name: Van Wie 1221

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7035'. Drill horizontal leg to estimated 21,483' lateral length, 28,941' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.95 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 9.53 acres

23) Describe centralizer placement for each casing string:

to centralizers will be used with conductor casing al - centralized every 3 joints to surface

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

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

cal - 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 cu

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Environmental Protection

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

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

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

Intermediate 1 - **** Storage String *** CTS ***15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 Ib / sack (Mix of Class A and Gyosum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBIWOB Anti Foam / D202 - 0.15% BWOB Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess*

Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess*

ate 2 - "Lead: 15.4 ppg PNE-1 + 2.5% bwcc CaCl40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwcc 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:

tor - Ensure the hole is clean at TD.

Fresh Water/Coal - Once casing is at setting de

termediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cerm ntermediate 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 pu

*Note: Attach additional sheets as needed.

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

Storage String * CTS ***

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

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

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

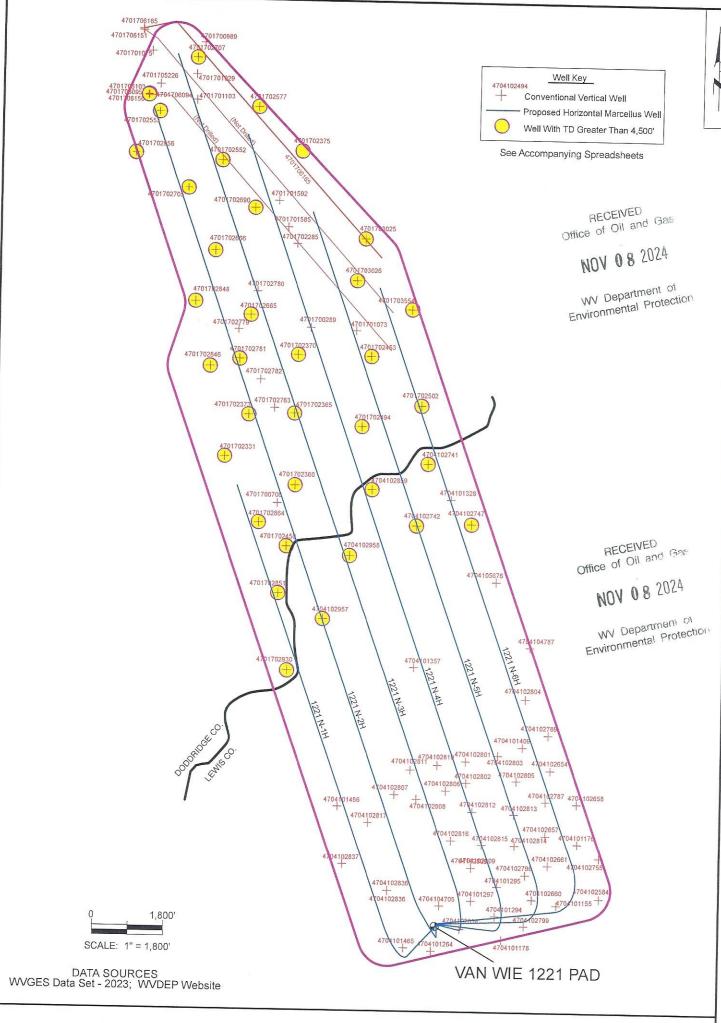
15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)

B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess

1221 N-2H Marcellus Shale Horizontal



| | 301 - 0.00 ga | ar / sack Re | tarder - | - U% EXCE | SS | | | | | | | Lewis C | ounty, WV | ENERGY | |
|-------|---------------|---------------------------------|----------|--------------|--|---------------------------|---------------------------|---|---|------------------------------------|--|--|--|--|------|
| H | Cuc | und Fr | | | | | | | 1221 | N-2H SH | lL | | 14197336.67N 1734 | 484.91E | |
| _ | Grot | X X LP @ 7035' T MD | | 1251. | (i. D. | | 1221 | N-2H L | P | | 14197628.28N 1734097.58E 14217877.22N 1726956.4E | | | | |
| | 1470 | | | 340.7 | 07° | | 1221 | N-2H BH | łL | | | | | | |
| H | WEL | LBORE D | IAGRA | ·M | HOLE | CASING | GEOLOGY | ТОР | BASE | MUD | CEMENT | CENTRALIZERS | CONDITIONING | COMMENTS | |
| | | | | | | | | | | | | | | | |
| | × | | | × | 30" | 30" 157.5# LS | Conductor | 0 | 120 | AIR | N/A, Casing to be drilled in w/ Dual Rotary Rig | A/A | Ensure the hole is clean at TD. | Conductor casing = 0.5" was thickness | |
| | X | | | × | 26" | 20" 94# J-55 | Coal | 740 | 746 | AIR | 15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess | Centralized every 3 | Once casing is at setting depth, circulate a minimum of one hole volume with | Surface casing = 0.438" wa | |
| 00000 | A | t of tectic | | x | | | Fresh Water Protection | 0 | 1225 | | Yield=1.20 / CTS | joints to surface | Fresh Water prior to pumping cement. | thickness Burst=2110 psi | |
| 3 | 60 | Pro | | | | | Little Lime | 2167 | 2187 | | Soo about (LEET) 5 | _ | Once casing is at setting | | |
| | 80 | arth | | | 17.5" | 13-3/8" 68# | Big Lime | 2216 | 2265 | AIR / KCL | See above (LEFT) for - Storage String Cement | Bow Spring on every joint | depth, Circulate and | Intermediate and a rea | |
| | | WV Depar Environmenta X X | 17.5 | J-55 BTC | Injun / Gantz (Storage) | 2265 / 2597 | 2361 / 2647 | Salt Polymer | Blend to Meet DTI | *will also be running | condition at TD. Circulate a minimum of one hole | Intermediate casing = 0.480 wall thickness | | | |
| | 1 | | | | Intermediate 1 | 0 | 2760 | - Olymer | Requirements for Gas Storage Field Isolation | ACP for isolating storage zone* | volume prior to pumping cement. | Burst=3450 psi | | | |
| | | W Envir | | | | Thirty Foot | 2789 | 2799 | | | | centerit. | | | |
| | | Ш | | | | | Gordon | 2837 | 2915 | | | | | | |
| | | | | | | | 5th Sand | 3066 | 3102 | 1 | Lead: 15.4 ppg PNE-1 + | | Open engine in at a til | | |
| | X | | X | 12 | 12.25" | 9-5/8" 40# | Bayard | 3161 | 3174 | AIR / KCL | 2.5% bwoc CaCl | Bow Spring on first 2 | Once casing is at setting depth, Circulate and | | |
| | | | | | 12.23 | 12.23 | N / L-80 BTC | Speechley | 3634 | 3666 | Polymer ppg PNE-1 + 2.5% bwoc | | condition mud at TD. Circulate a minimum of one | Intermediate casing = 0.395' wall thickness | |
| | | | | | | | | | | | Benson | 5038 | 5072 | Polymer | CaCl |
| | | | | | | | Alexander | 5324 | 5444 | 5' | zero% Excess. CTS | | pumping cement. | | |
| | | | | | | | Intermediate 2 | 0 | TVD: 5675' MD: 5700' Inc: 5 dea. | / | | | | | |
| | X | | X | | | | | | | | | | | | |
| | | | | | 8.75" | 1 1 | | | | AIR / | | Run 1 spiral centralizer every 5 joints from the | | | |
| | | | | | | 1 1 | | | | 9.0ppg SOBM | <u>Lead</u> : 14.5 ppg | top of the curve to | | | |
| | | | | | | 4 1 | | | | | POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc | surface. | | | |
| | | | | | | 1 | Rhinestreet | 6303 | 6591 | | EC1 + 0.75 gal/sk FP13L | | Once on bottom/TD with | | |
| | | | | | 1 | 5-1/2" | Cashaqua | 6591 | 6736 | | + 0.3% bwoc MPA170 <u>Tail</u> : 14.8 ppg PNE-1 + | | casing, circulate at max | Production casing = 0.415" | |
| | ^ | | X | | 0.511.0 | 23# | Middlesex | 6736 | 6815 | 11.5ppg- | 0.35% bwoc R3 + 0.75 | | allowable pump rate for at least 2x bottoms up, or until | wall thickness | |
| | | | | | 8.5" Curve | P-110 HP TXP / W461 | West River | 6815 | 6884 | 12.5ppg | gal/sk FP13L + 50% bwoc ASCA1 + 0.5% | | returns and pump pressures | Burst=16240 psi Note:Actual centralizer | |
| | | | 8 | | | | Burkett | 6884 | 6925 | SOBM | bwoc MPA170 | Run 1 spiral centralizer every 3 joints from the | indicate the hole is clean. Circulate a minimum of one | schedules may be changed | |
| | | | | | l | Tully Limestone | 6925 | 6952 | | 20% Excess Lead Yield=1.19 | 1st 5.5" long joint to the | hole volume prior to | due to hole conditions | | |
| | | | | | - | Hamilton | 6952 | 7002 | | Tail Yield=1.94 | top of the curve. | pumping cement. | | | |
| | | | | | - | Marcellus | 7002 | 7049 | 11 Enns | CTS . | | | | | |
| | | | | 8.5" Lateral | | TMD / TVD (Production) | 28940 🗸 | 7035 | 11.5ppg- 12.5ppg | | | | | | |
| | × | | X | 0.011111111 | in Contract of the Contract of | 21,111,111,111 | Onondaga | 7049 | | SOBM | | | | | |
| | | 1 | | | Χ | X | X | X | | X | X | × | X | X | |
| | | | LP | | | | | 8.5" Hole - Cemented 5-1/2" 23# P-110 HP | Long String | | | | 2' ft Lateral | TD @ +/-7035' TVD | |
| | | Х | | | X | X | | X | | Section and administrative | | X | Editorul | +/-28940' MD | |



Area of Review for:

VAN WIE 1221 NORTH UNIT

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

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

5260 DuPont Road, Parkersburg, WV 26101

10/18/2024

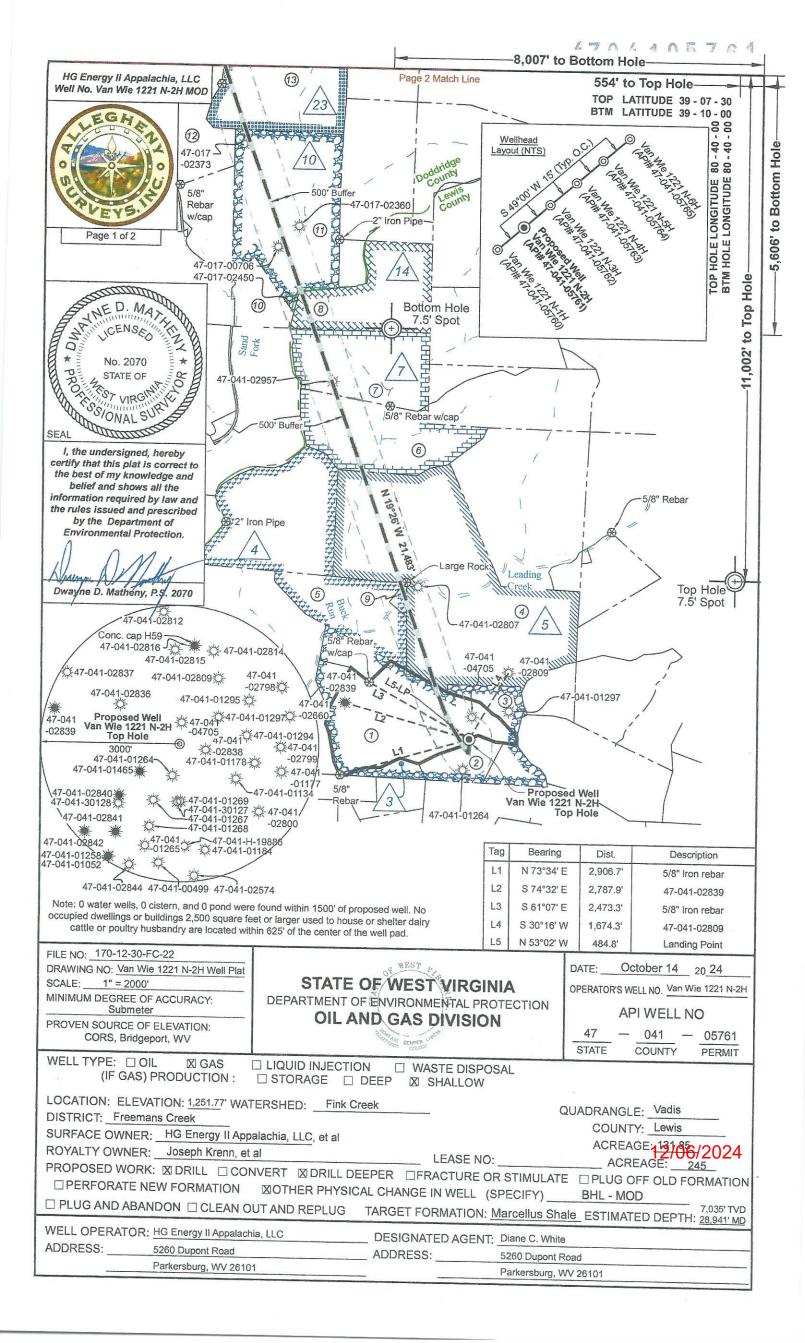
EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

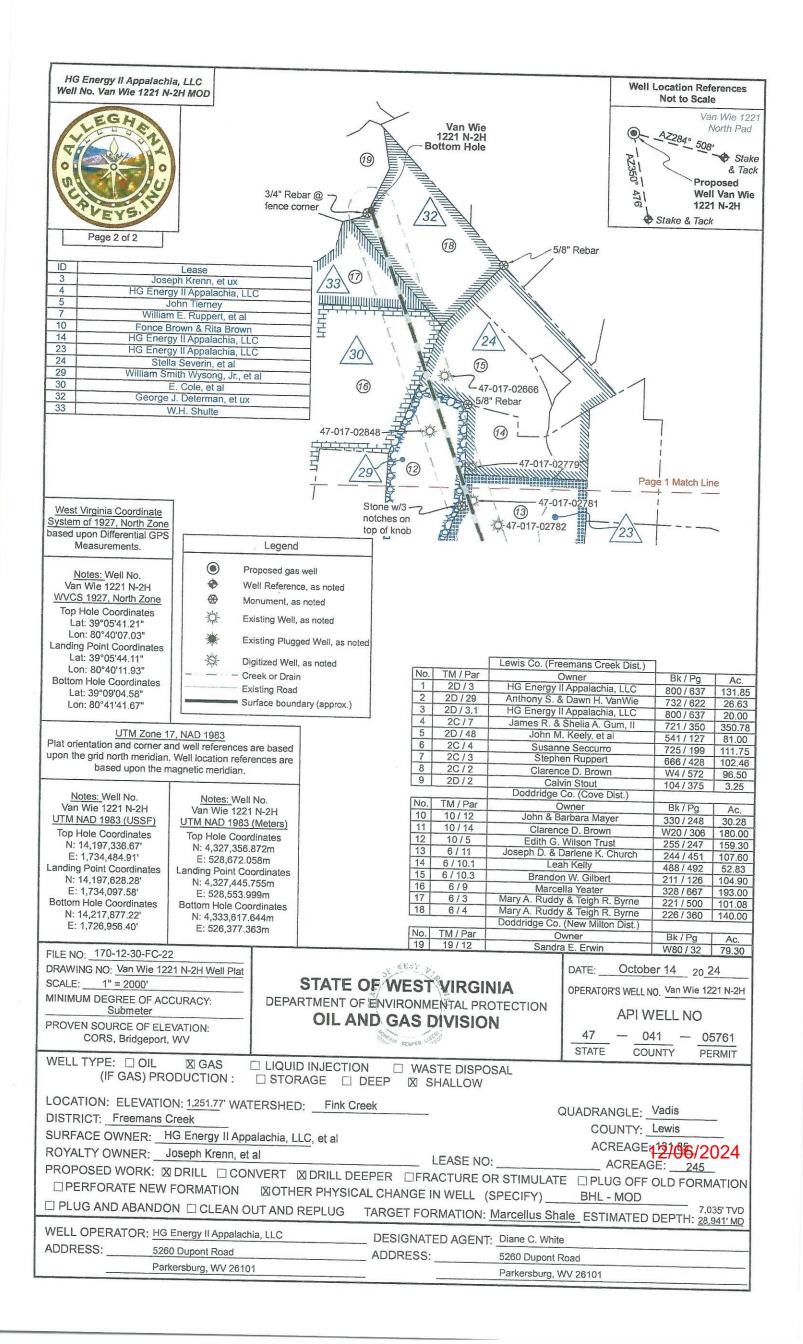
VAN WIE 1221 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H, N-5H, & N-6H

| СТ | API | COUNTY | FARM | OPERATOR NAME | FORMATION NAME | WELL TYPE | TVD | | | |
|----|------------|-----------|-------------------------|--|---------------------------------|-----------------|----------------------------|-----------|-----------|------------|
| 1 | 4701700289 | Doddridge | E B Severn | Carr, A. T., and Collins, John, Drilling Co. | Big Injun (Price&eq) | Dry w/ Gas Show | THE PERSON NAMED IN COLUMN | STATUS | LATITUDE | LONGITUDE |
| 2 | 4701700706 | Doddridge | Alphonsus Brown | UNKOWN | Big Injun (undiff) | Gas w/ Oil Show | 2083 | PLUGGED | 39.136276 | -80.680367 |
| 3 | 4701701073 | Doddridge | Henry & Ella Droppleman | Ross & Wharton Gas Company, Inc. | Up Devonian | | 2086 | ABANDONED | 39.124089 | -80.683170 |
| 4 | 4701701585 | Doddridge | Stella Severn | Berry Energy, Inc. | Big Injun (Grnbr) | Gas | 2895 | ABANDONED | 39.136098 | -80.676307 |
| 5 | 4701701592 | Doddridge | Stella Severn | Berry Energy, Inc. | Big Injun (Grnbr) | Oil and Gas | 2268 | ABANDONED | 39.143240 | -80.682617 |
| 6 | 4701702285 | Doddridge | Stella Severin | Rockwell Resources, LLC | Big Injun (Grnbr) | Oil and Gas | 2286 | ABANDONED | 39.145011 | -80.683519 |
| 7 | 4701702331 | Doddridge | G G Schmidt et al | Beta Helix Energy, LLC | Alexander | Dry Gas | 2197 | PLUGGED | 39.141922 | -80.681834 |
| 8 | 4701702360 | Doddridge | Fonce Brown | Beta Helix Energy, LLC | Alexander | Gas | 5488 | ACTIVE | 39.127302 | -80.687917 |
| 9 | 4701702365 | Doddridge | Fonce Brown | Beta Helix Energy, LLC | Alexander | | 5183 | ACTIVE | 39.125345 | -80.681591 |
| 10 | 4701702370 | Doddridge | H & E Droppleman | Beta Helix Energy, LLC | Alexander | Gas | 5198 | ACTIVE | 39.130315 | -80.681747 |
| 11 | 4701702373 | Doddridge | Fonce Brown | Beta Helix Energy, LLC | Elk | Gas | 5226 | ACTIVE | 39.134395 | -80.681471 |
| 12 | 4701702450 | Doddridge | Fonce Brown | Beta Helix Energy, LLC | Brallier | Gas | 5460 | ACTIVE | 39.130216 | -80.685815 |
| 13 | 4701702453 | Doddridge | H & E Droppleman | Beta Helix Energy, LLC | Alexander | Gas | 5426 | ACTIVE | 39.121106 | -80.682308 |
| L4 | 4701702494 | Doddridge | Joseph Brown | Beta Helix Energy, LLC | Elk | Gas | 5496 | ACTIVE | 39.134331 | -80.674927 |
| 5 | 4701702502 | Doddridge | Joseph Brown | Beta Helix Energy, LLC | Greenland Gap Fm | Gas | 5333 | ACTIVE | 39.129444 | -80.675711 |
| 6 | 4701702553 | Doddridge | G Determan | Greylock Conventional, LLC | Greenland Gap Fm | Gas | 5040 | ACTIVE | 39.130928 | -80.670402 |
| .7 | 4701702665 | Doddridge | M Toia | Geo Energy, LLC | | Gas | 5728 | ACTIVE | 39.151110 | -80.694165 |
| 8 | 4701702666 | Doddridge | J Glenn | Geo Energy, LLC | Alexander | Gas | 5461 | ACTIVE | 39.137126 | -80.685750 |
| 9 | 4701702690 | Doddridge | M Toia | Geo Energy, LLC | Alexander | Gas | 5634 | ACTIVE | 39.141560 | -80.689005 |
| 0 | 4701702705 | Doddridge | Kenneth Capp | Geo Energy, LLC | Alexander | Gas | 5632 | ACTIVE | 39.145292 | -80.686788 |
| 1 | 4701702763 | Doddridge | F Brown | Beta Helix Energy, LLC | Alexander | Gas | 5460 | ABANDONED | 39.145858 | -80.691493 |
| 2 | 4701702779 | Doddridge | M Tota | Berry Energy, Inc. | Big Injun (undiff) | Gas w/ Oil Show | 2223 | ACTIVE | 39.130689 | -80.683546 |
| 3 | 4701702780 | Doddridge | M Toia | Devon Energy Corporation | Squaw | Gas | 2420 | ABANDONED | 39.136127 | -80.686817 |
| 4 | 4701702781 | Doddridge | H & E Droppleman | Beta Helix Energy, LLC | Big Injun (undiff) | Gas | 2480 | PLUGGED | 39.138767 | -80.685171 |
| 5 | 4701702782 | Doddridge | Roy Church | Rockwell Resources, LLC | Alexander | Gas | 5548 | ACTIVE | 39.134076 | -80.686688 |
| 6 | 4701702846 | Doddridge | W S Wysong | Beta Helix Energy, LLC | Big Injun (undiff) | Dry | 2356 | PLUGGED | 39.132651 | -80.684795 |
| 7 | 4701702848 | Doddridge | W S Wysong | Beta Helix Energy, LLC | Alexander | Gas | 5454 | ACTIVE | 39.133551 | -80.689327 |
| 8 | 4701702851 | Doddridge | H Schmidt | | Alexander | Gas | 5500 | ACTIVE | 39.138240 | -80.690078 |
| 9 | 4701702864 | Doddridge | J A Shaver | Beta Helix Energy, LLC | Alexander | Gas | 5465 | ACTIVE | 39.117851 | -80.682994 |
|) | 4701702930 | Doddridge | Glen Rastle | Beta Helix Energy, LLC Beta Helix Energy, LLC | Alexander Alexander Alexander | Gas | 5220 | ACTIVE | 39.122745 | -80.684814 |
| L | 4701702956 | Doddridge | Kenneth Capp | IRural Recources IIC | Alexander | Gas | 5400 | ACTIVE | 39.112484 | -80.682112 |
| 2 | 4701703025 | Doddridge | Thomas B Smith | 9 7 | Brallier | Gas | 5495 | ABANDONED | 39.148232 | -80.696245 |
| 3 | 4701703026 | Doddridge | Roy Church | Beta Helix Energy, LLC Beta Helix Energy, LLC | Elk | Oil and Gas | 5579 | ACTIVE | 39.142490 | -80.675598 |
| | | | no, church | Deta Helix Energy, LLC | Alexander Alexander | Gas | 5484 | ACTIVE | 39.139576 | -80.676307 |

| 34 | 4701703554 | Doddridge | Barbara A Doyle | Eastern Gas Transmission & Storage, Inc. | Alexander | Con | | | | |
|----|------------|-----------|---------------------------|--|---------------|---------------|------|---------------|------------------------|--------------------------|
| 35 | 4701706094 | Doddridge | John F Erwin | Antero Resources Corporation | Marcellus Fm | Gas | 5470 | ACTIVE | 39.137606 | -80.67133 |
| 36 | 4701706095 | Doddridge | John F Erwin | Antero Resources Corporation | Marcellus Fm | Gas | 7223 | ACTIVE | 39.152247 | -80.69518 |
| 37 | 4701706103 | Doddridge | John F Erwin | Antero Resources Corporation | Marcellus Fm | Gas | 7248 | ACTIVE | 39.152273 | -80.69516 |
| 38 | 4701706150 | Doddridge | John F Erwin | Antero Resources Corporation | Marcellus Fm | Gas | 7250 | ACTIVE | 39.152296 | -80.69514 |
| 39 | 4704101155 | Lewis | U F Starcher | Eastern Gas Transmission & Storage, Inc. | Gantz | Permit issued | - | NEVER DRILLED | 39.152233 | -80.69520 |
| 40 | 4704101176 | Lewis | Maxwell Hr | UNKOWN | Gantz | Storage | 2335 | PLUGGED | 39.096274 | -80.65779 |
| 41 | 4704101178 | Lewis | J C Starcher | Eastern Gas Transmission & Storage, Inc. | Gantz | Storage | 2457 | PLUGGED | 39.100547 | -80.65601 |
| 42 | 4704101264 | Lewis | J Krenn | UNKOWN | Gantz | Storage | 2524 | ACTIVE | 39.093849 | -80.66267 |
| 43 | 4704101294 | Lewis | J C Starcher | UNKOWN | | Storage | 2490 | PLUGGED | 39.093040 | -80.66890 |
| 44 | 4704101295 | Lewis | U F Starcher | UNKOWN | Gantz | Storage | 2530 | PLUGGED | 39.095481 | -80.66329 |
| 45 | 4704101297 | Lewis | J Krenn | UNKOWN | Gantz | Storage | 2538 | PLUGGED | 39.097542 | -80.66311 |
| 46 | 4704101328 | Lewis | X Frye | Foster Mining Co. | Gantz | Storage | 2577 | PLUGGED | 39.096546 | -80.66542 |
| 47 | 4704101357 | Lewis | R F Ruppert | Eastern Gas Transmission & Storage, Inc. | Gantz | Oil | 2390 | ABANDONED | 39.124405 | -80.66763 |
| 48 | 4704101409 | Lewis | W Walsh | UNKOWN | Gantz | Storage | 2450 | ACTIVE | 39.112751 | -80.670788 |
| 49 | 4704101456 | Lewis | John Hushion | Eastern Gas Transmission & Storage, Inc. | Gantz | Storage | 2380 | PLUGGED | 39.107269 | -80.660987 |
| 50 | 4704101465 | Lewis | J Krenn | UNKOWN | Gantz | Oil | 2243 | PLUGGED | 39.103069 | -80.67744! |
| 51 | 4704102584 | Lewis | Wallace Starcher | Eastern Gas Transmission & Storage, Inc. | Gantz | Storage | 2900 | PLUGGED | 39.093249 | -80.67137 |
| 52 | 4704102654 | Lewis | Conroy Dennis | | Hampshire Grp | Storage | 2488 | ACTIVE | 39.096737 | -80.654029 |
| 53 | 4704102657 | Lewis | F Maxwell Heirs | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | | ACTIVE | 39.105648 | -80.658501 |
| 54 | 4704102658 | Lewis | F Maxwell Heirs | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | - | ACTIVE | 39.101125 | -80.658876 |
| 55 | 4704102660 | Lewis | U F Starcher | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | - | ACTIVE | 39.103336 | -80.656089 |
| 56 | 4704102661 | Lewis | U F Starcher | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | 14 | ACTIVE | 39.096665 | -80.659994 |
| 57 | 4704102741 | Lewis | 7 % | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | - | ACTIVE | 39.099024 | -80.658615 |
| 58 | 4704102742 | Lewis | Vaudan France | Deran Resources, Inc. | Brallier | Gas | 5446 | ACTIVE | 39.126888 | -80.669765 |
| 59 | 4704102747 | Lewis | 3 6 | Beta Helix Energy, LLC | Brallier | Gas | 5332 | ACTIVE | 39.122596 | -80.670715 |
| 60 | 4704102755 | Lewis | | Beta Helix Energy, LLC | Benson | Gas | 5214 | ACTIVE | 39.122717 | |
| 61 | 4704102787 | Lewis | 700 | Eastern Gas Transmission & Storage, Inc. | Hampshire Grp | Storage | 2536 | ACTIVE | 39.099566 | -80.665804 -80.654040 |
| 62 | 4704102789 | Lewis | (0 0 | Eastern Gas Transmission & Storage, Inc. | Gantz | Storage | 2434 | PLUGGED | 39.103481 | -80.658881 |
| 63 | 4704102798 | Lewis | Definis comby | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | 2339 | PLUGGED | 39.108122 | -80.658697 |
| 64 | 4704102799 | Lewis | U F Starcher | Eastern Gas Transmission & Storage, Inc. | Gantz | Storage | 2449 | PLUGGED | 39.098355 | |
| 65 | 4704102793 | | J C Starcher | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | 2658 | ACTIVE | 39.098333 | -80.660626 |
| 56 | 4704102801 | Lewis | Bernard McCutchen | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | (=) | PLUGGED | | -80.660693 |
| 57 | 4704102802 | Lewis | Bernard McCutchen | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | - | PLUGGED | 39.106245 39.104786 | -80.666041 |
| 68 | | Lewis | William Walsh | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | _ | ACTIVE | | -80.665954 |
| 59 | 4704102804 | Lewis | William Walsh | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Observation | - | ACTIVE | 39.106672 | -80.663163 |
| | 4704102805 | Lewis | William Walsh | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | 2318 | PLUGGED | 39.110612 | -80.660774 |
| 70 | 4704102806 | Lewis | Gary L & Virginia C Brown | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | 2310 | FLUGGED | 39.104931 | -80.661487 |

| 72 | 4704102808 | Lewis Lewis | John Tierney Gary L & Virginia C Brown | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | 2 | ACTIVE | 39.103912 | -80.67238 |
|-----|-----------------|----------------|--|--|-------------------|-------------------------|------|---------------|-----------------|------------|
| 73 | 4704102809 | Lewis | John Tierney | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | - | PLUGGED | 39.103626 | -80.67039 |
| 74 | 4704102810 | Lewis | John Tierney | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Observation | - | ACTIVE | 39.098834 | -80.66544 |
| 75 | 4704102811 | Lewis | Gary L & Virginia C Brown | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | _ | ACTIVE | 39.105982 | -80.66857 |
| 76 | 4704102812 | Lewis | Gary L & Virginia C Brown | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | - | PLUGGED | 39.105656 | -80.67095 |
| 77 | 4704102813 | Lewis | Gary L & Virginia C Brown | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | - | PLUGGED | 39.102756 | -80.66539 |
| 78 | 4704102814 | Lewis | John Tierney | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | 2352 | PLUGGED | 39.102611 | -80.66167 |
| 79 | 4704102815 | Lewis | John Tierney | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Observation | - | ACTIVE | 39.100444 | -80.66159 |
| 80 | 4704102816 | Lewis | John Tierney | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | 2430 | PLUGGED | 39.100486 | -80.66452 |
| 81 | 4704102817 | Lewis | John M Keely et al | Eastern Gas Transmission & Storage, Inc. | Hampshire Grp | Storage | 2595 | ACTIVE | 39.100750 | -80.66728 |
| 82 | 4704102836 | Lewis | Joseph Krenn | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | - | ACTIVE | 39.101970 | -80.674695 |
| 83 | 4704102837 | Lewis | Joseph Krenn | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Observation | 25- | ACTIVE | 39.097234 | -80.672886 |
| 84 | 4704102838 | Lewis | Joseph Krenn | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Storage | | ACTIVE | 39.099071 | -80.676947 |
| 85 | 4704102859 | Lewis | Joseph Brown | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | Observation | - | ACTIVE | 39.094584 | -80.666399 |
| 86 | 4704102957 | Lewis | J Ferrell | Beta Helix Energy, LLC | Alexander | Gas | 5465 | ACTIVE | 39.125074 | -80.674728 |
| 87 | 4704102958 | Lewis | F & R Brown | Beta Helix Energy, LLC | Alexander | Gas | 5421 | ACTIVE | 39.116095 | -80.678971 |
| 88 | 4704104705 | Lewis | Joseph Krenn | Beta Helix Energy, LLC | Benson | Gas w/ Oil Show | 5595 | ACTIVE | 39.120490 | -80.676662 |
| 89 | 4704104787 | Lewis | Frank A Altomare Jr | Eastern Gas Transmission & Storage, Inc. | Gantz | Oil and Gas | 2546 | ACTIVE | 39.096192 | -80.668233 |
| 90 | 4704105676 | Lewis | Downey | Eastern Gas Transmission & Storage, Inc. | UNKNOWN | not available | - | PLUGGED | 39.114199 | -80.660444 |
| | Out to the last | | Downey | Eastern Gas Transmission & Storage, Inc. | - | P-20 | - | NEVER DRILLED | 39.118746 | -80.663516 |
| 91 | 4701700989 | Doddridge | Celia Schulte | WELLS ADDE | D 1/29/2024 | A Programme | | | 466 | 00.009910 |
| 92 | 4701701029 | Doddridge | Celia Schultz | Southern Triangle Oil Co. | Big Injun (Grnbr) | Oil and Gas | 2420 | PLUGGED | 39.155903 | -80.690217 |
| 93 | 4701701075 | Doddridge | F M Hinter & A Hunter | Southern Triangle Oil Co. | Big Injun (Grnbr) | Gas w/ Oil Show | 2495 | PLUGGED | 39.153717 | -80.690927 |
| 94 | 4701701103 | Doddridge | George Determan | Petroleum Promotions | | Oil w/ Gas Show | 2454 | PLUGGED | 39.155273 | -80.694929 |
| 95 | 4701702375 | Doddridge | Thomas B Smith | | | Oil and Gas | 2288 | PLUGGED | 39.151934 | -80.690851 |
| 96 | 4701702552 | Doddridge | G Determan | | Brallier | Gas | 5425 | ABANDONED | 39.148482 | -80.681388 |
| 97 | 4701702577 | Doddridge | Thomas Smith | Greylock Conventional, LLC | | Gas | 5732 | ACTIVE | 39.147523 | -80.688533 |
| 98 | 4701702707 | Doddridge | Kenneth Capp | | Greenland Gap Fm | Gas | 5401 | ACTIVE | 39.151528 | -80.685310 |
| 99 | 4701705226 | Doddridge | John F Erwin | 0 | Alexander | Gas | 5644 | ABANDONED | 39.15486 | -80.690871 |
| 00 | 4701706150 | Doddridge | John F Erwin | Berry Energy, Inc. | Greenland Gap Fm | Gas | 3410 | ACTIVE | 39.153122 | -80.694241 |
| 01 | 4701706151 | Doddridge | John F Erwin | Antero Resources Appalachian Corp. | Marcellus Fm | NA | NA | NEVER DRILLED | 39.152233 | -80.695208 |
| 02 | 4701706165 | Doddridge | John F Erwin | Antero Resources Appalachian Corp. | Marcellus Fm | NA | NA | NEVER DRILLED | 39.156687 | -80.695704 |
| | | | Some Liveri | Antero Resources Appalachian Corp. | Marcellus Fm | Gas | 7246 | ACTIVE | 39.156790 | -80.695742 |
| URC | E: WVGES DAT | ASET (2020) | and WVDEP WEBSITE AND | A LIELD CLIDALA | | | | | | -1.000/ 12 |
| | D 10/18/2024 | 1020 (2020) | ALIA MANDER MEDSITE AND | FIELD SURVEYS | YELLOW DENOTE | S WELL WITH TVD > 4,500 | | CDEEN SEVE | OTES SURVEYED W | |





WW-6A1 (5/13)

Operator's Well No. Van Wie 1221 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

See Attached Sheets

Office of Oir the GA

NOV 08 2024

WV Departmen of Environmental Protection

Co-Tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the natural gas mineral property on the tract. The interests of the remaining cotenants will be secured pursuant to the Co-Tenancy Act

Horizontal Well Unit Utilization - Subject to unitilization filing with te WV Oil and Gas Conservation Commission

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

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

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

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

Well Operator: HG Energy II Appalachia, LLC

By: Diane White Diane White

Its: Agent

Page 1 of ____

HG Energy II Appalachia, LLC Van Wie 1221 N-2H Lease Chain

| 221N Tract | NUMBER | ТАХ МАР | LEASE NUMBER | GRANTOR/LESSOR | GRANTEE/LESSEE | POVALTY | | |
|------------------------------|-------------------------|--|--|--|--|-----------------------------------|-----------|------|
| | | | | JOSEPH KRENN AND EMILY E. KRENN, HIS WIFE | SOUTH PENN OIL COMPANY | ROYALTY | DEED BOOK | PAG |
| | | 1 | | WILLIAM A. LOUWTHER | SOUTH PENN OIL COMPANY | NOT LESS THAN 1/8 | 33 | |
| | | 1 | | SOUTH PENN OIL COMPANY | SOUTH PENN NATURAL GAS CO | NOT LESS THAN 1/8 | 42 | |
| | | | | SOUTH PENN NATURAL GAS CO | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 156 | |
| | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | ASSIGNMENT | 166 | |
| HE | | | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | CONFIRMATORY DEED | 294 | |
| | | | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | ASSIGNMENT | 425 | |
| | | 03-002D-0003-0000 | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | |
| | | 03-002D-0003-0001 | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | 9 | |
| | FK054825 | 03-002D-0003-0003 | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | MEMORANDUM OF FARMOUT AGREEMENT | 672 | |
| 7 3 | FK079440 FEE | 03-002D-0028-0000 | Q100903000 | DOMINION TRANSMISSION, INC. | | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | |
| | | 03-002D-0029-0000 | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY INC | NOT LESS THAN 1/8 | 692 | |
| 20 | | 03-002D-0030-0000 | | CNX GAS COMPANY LLC | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | _ |
| | | | | NOBLE ENERGY, INC. | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | |
| ✓ 3 FK054825 FK079440 FEE | | | | DOMINON TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | |
| | 8 | 0 | | The state of the s | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | |
| | | n 🗎 | | DOMINION ENERGY TRANSMISSION, INC. | U.O. ELLER AND | SECOND AMENDMENT TO MEMORANDUM OF | WV303 | e de |
| | ce z | | The transfer of the transfer o | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | | |
| | | NOV I | | DOMINION ENERGY TRANSMISSION, INC. | | THIRD AMENDMENT TO MEMORANDUM OF | 723 | |
| | WV Departies Protection | Jan Con Con Con Con Con Con Con Con Con Co | Do | DOMINION ENERGY TRANSMISSION, INC. | | | 734 | |
| | | Defice of Oil NOV 0 NOV Dep | | DOMINION ENERGY TRANSMISSION, INC. | , INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT , INC. HG ENERGY II APPALACHIA, LLC THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT , INC. HG ENERGY II APPALACHIA, LLC FARMOUT AGREEMENT , INC. HG ENERGY II APPALACHIA, LLC ASSIGNMENT (68%) , INC. HG ENERGY II APPALACHIA, LLC MINERAL DEED SOUTH PENN OIL COMPANY NOT LESS THAN 1/8 SOUTH PENN NATURAL GAS CO ASSIGNMENT HOPE NATURAL GAS COMPANY ASSIGNMENT | 736 | 3 | |
| | | ta a a a a | | JOHN TIERNEY | | | 740 | |
| 1 | | 2024 2024 Iment | | SOUTH PENN OIL COMPANY | | NOT LESS THAN 1/8 | | |
| | | Gass 124 | | SOUTH PENN NATURAL GAS CO | SOUTH PENN NATURAL GAS CO | | 39 | |
| | | lec of | | HOPE NATURAL GAS COMPANY | | ASSIGNMENT | 156 | |
| - 1 | 1 | 10 | The state of the s | | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 166 | |
| - 1 | 1 | 5 | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 294 | |
| - 1 | | | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | 425 | |
| | | | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | WVSOS | |
| / ₅ | FK082810 | | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | WVSOS | |
| 5 | FK056828 | 03-002C-0007-0000 | Q100341000 | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 672 | |
| l l | | | H | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 684 | |
| | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT (52%) | 712 | |
| | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 717 | |
| 10 | | 1 | l' | DOMINON TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | 722 | |
| | | | l. | | | | WVSOS | |
| 1 | | | Į. | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | SECOND AMENDMENT TO MEMORANDUM OF | | |
| | 1 | | į. | | 7, | FARMOUT AGREEMENT | 723 | |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | THIRD AMENDMENT TO MEMORANDUM OF | | |
| / | | 02 0020 0005 0000 | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | |
| 4 | FK054823 FEE | 03-002C-0005-0000 | FK054823 FEE | - | The state of the s | ASSIGNMENT (68%) | 736 | |
| | FK079812 FEE | 03-002C-0048-0000 03-002D-0002-0000 | EK070043 EEE | OMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | MINERAL DEED | | |

| / 7 | FK064782 FK079376 FEE | 03-002C-0003-0000 03-002C-0004-0000 p/o 03-002C-0002-0000 p/o 03-002C-0007-00001 | Q100598000 | WILLIAM E. RUPPERT, WIDOWER; ROY F. RUPPERT, WIDOWER; AGNI RILEY AND MARTIN J. RILEY, HER HUSBAND; CHARLES F. RUPPERT AN W. E. RUPPERT, ATTORNEY IN FACT FOR CLARA RUPPERT HUNKLER; A. MAYBURY, HENRY MAYBURY, FRED MAYBURY, GILBERT MAYBURY NORA KESSEN, NORA MAYBURY, GERTRUDE MAYBURY, CATHERINE MAYBURY, MARCELLA MAYBURY, BEN KESSEN, JOHN RUPPERT, CATHERINE RUPPERT, JOE RUPPERT, MARIAH RUPPERT, ADELINE ROUGH, LEE ROUGH, CLARA HUNKLER, EDWARD HUNKLER, LEWIS RUPPERT, NORA RUPPERT; NORA MAYBURY, GUARDIAN FOR HERMAN J. MAYBURY; ANDREW B. MAYBURY, MARCELLA C. MAYBURY, JOSEPH A. MAYBURY, EDWARD C. MAYBURY AND MAY E. MAYBURY; MAYBELLE RUPPERT, SINGLE; MAYBELLE RUPPERT, GUARDIAN FOR MICHAEL RUPPERT; C. O. DENNISON AND DAISY I. DENNISON, HIS WIFE HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. | B. | NOT LESS THAN 1/8 CONFIRMATORY DEED ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MEMORANDUM OF FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) NOT LESS THAN 1/8 PARTIAL ASSIGNMENT (32%) ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT THIRD AMENDMENT TO MEMORANDUM OF | 223 294 425 WVSOS WVSOS 672 684 692 712 717 722 WVSOS | 1 1: 55: 84 17 |
|-----|--------------------------|---|--------------|--|--|--|--|----------------------------|
| | | | | DOMINION ENERGY TRANSMISSION, INC. | | THIRD AMENDMENT TO MEMORANDUM OF | 723 | 49 |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 55 |
| | | | | The state of the s | HG ENERGY II APPALACHIA, LLC | MINERAL DEED | 740 | 74 |
| /14 | FK079362 FEE | p/o 03-002C-0002-0000 | FK079362 FEE | DOMINION ENERGY TRANSMISSION, INC. FONCE BROWN AND RITA BROWN, BROTHER AND SISTER, BOTH | HG ENERGY II APPALACHIA, LLC | MINERAL DEED | 740 | 74 |
| | | 1 | | SINGLE | CAPITAL PETROLEUM | NOT LESS THAN 4 (5 | | |
| | | | | FONCE BROWN, SINGLE, AND RITA B. BROWN, SINGLE | ROCKWELL PETROLEUM COMPANY | NOT LESS THAN 1/8 | 100 | 4 |
| | | | | GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY | FOSSIL PETROLEUM COMPANY | NOT LESS THAN 1/8 ASSIGNMENT | 107 | 6 |
| | | | | FOSSIL PETROLEUM COMPANY | GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY | ASSIGNMENT | 100 | 67 |
| | | Office | | GLENN LOCKHART DBA CAPITAL PETROLEUM COMPANY | STONESTREET LANDS COMPANY | ASSIGNMENT | 101 | 1 |
| | 1 | i jo | | STONESTREET LANDS COMPANY | ROCKWELL PETROLEUM COMPANY | ASSIGNMENT | 101 | 13 |
| | 1 1 | NN RECE | | ABARTA OIL AND GAS CO INC | ANTERO RESOURCES APPALACHIAN CORPORATION | ASSIGNMENT | 107 | 73 |
| | 1 | NOV 0 | | CPC ENERGY SRS (P) LP SUCCESSOR PARTITIONS | | | 261 | 46 |
| | | De OIL | | CPC ENERGY SBS (B) LP, SUCCESSOR PARTNERSHIP TO GLENVILLE 1979 | ANTERO RESOURCES APPALACHIAN CORPORATION | ASSIGNMENT | 200 | |
| | | enta and and | | CARCON RETRIEF THE CONTRAINT | CARSON PETROLEUM CORPORATION | PARTIAL ASSIGNMENT | 275 | 8 |
| | | 2 0 | | CARCON RETROLEUM CONTRACTOR | CPC 78-F, LTD | PARTIAL ASSIGNMENT | 108 | 34 |
| | | Net Gas | | CARCON RETROLEUM CORRES | CPC 78-F, LTD | PARTIAL ASSIGNMENT | 109 | 1 |
| | | 0,4 | | DOCKWELL DETROLEUM COMME | HS I-A, LTD | PARTIAL ASSIGNMENT | 109 | 2 |
| | | Cti | | DOCIMIEL REPROSENCE | CARSON PETROLEUM CORPORATION | PARTIAL ASSIGNMENT | 109 | 14 |
| | | 09 | | CARSON RETROLEUM CORRORATION | | | | 55 |
| | | | | CARSON PETROLEUM CORPORATION | CARSON PETROLEUM CORPORATION PARTIAL ASSIGNMENT 110 ROYAL W. CARSON, JR. PARTIAL ASSIGNMENT 112 | 441 229 | | |
| 10 | | | | | HS II-B, LTD | | | |

| Description Programmer Pr | #1 | 1 | 1 | ľ | | | | | | |
|--|----|----------|---|--|--|---|--|-------|-----|------|
| POMESTED 1. CONTROLLED 1 | | | | 98 | CARSON PETROLEUM CORPORATION | ROYAL W. CARSON, IR | 0.40 | | | |
| ACCOUNT COLUMN CONTROLLING | | | | | CARSON PETROLEUM CORPORATION | | | 11 | 12 | 230 |
| March Product Construction Or A a 100 Product A 100 A 100 Product A 100 A | | | 1 | | CARSON PETROLEUM CORPORATION | | | | | |
| MARCIA PROJUCTURE CONTROLLED | 50 | 1 | No. | | CARSON PETROLEUM CORPORATION | | | 11 | 12 | |
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| DOCUMENT OF COMMAND 100 | | | 1 | | | | | 11 | 2 | 308 |
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| ASSOCIATION CONTINUES AND CORRESPONDING PROPERTY AND CONTINUES AND C | | | | | ROCKWELL PETROLEUM COMPANY | | The state of the s | | | |
| DESCRIPTION | | | 1 | | ROCKWELL PETROLEUM COMPANY, ROBERT R. JONES, AND MARK R. | THE THE CAUSEN, SIL | PARTIAL ASSIGNMENT | | | |
| PROPERTIZE CR-9010-07214-0000 CR-90112-1000 CR-9010-10-10-10-10-10-10-10-10-10-10-10-10- | 1 | No. | | | WORL | CARSON PETROLELIM COPPORATION | | | 1 | 3/3 |
| PROPERTY UP ON 15-023-4-9000 UP ON 15- | / | | | The control of the co | CARSON PETROLEUM CORPORATION; ROYAL W. CARSON, III: MACK F | B. | ASSIGNMENT | 125 | 3 | 820 |
| PICHANE & FUNDS, AN INCUPUIDAL DUPY MERGEY CONFORTION SOMEWITE 120 674 | 10 | FK090212 | 02-0010-0014-0000 | | WORL; ROYAL W. CARSON, JR.; AND EMILY CARSON | | No. of the Control of | | 1 | 020 |
| CILEMAN STORM CORPORATION CILEMAN STORM CILEMAN STORM STOR | | | Commission | Q093121002 | THOMAS E. EVANS, AN INDIVIDUAL | DEVON ENERGY CORPORATION (NEVADA) | | 126 | 6 | 121 |
| CASSON FERROLLUC CORPORATION CARROLLUC CORPORATION LIST SA. LIMITED PAPERTRIBURIUS IN ST. SC. CONSIDERATION FARTHERSHIP IN SCR. CONSIDERATION FARTHERSHIP | ľ | | 1 | | | | | | | |
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| DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (23%) 692 570 | | | ote | 12 | DOMINION TRANSMISSION, INC. | | | WVSOS | | 04 |
| DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (23%) 692 570 | | 1 | CIII | | CNX GAS COMPANY LLC | | MEMORANDUM OF FARMOUT AGREEMENT | | 15 | 4 |
| DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. PARTIAL ASSIGNMENT (2384) 692 570 | / | | Of . | | DOMINION TRANSMISSION, INC. | | LIMITED PARTIAL ASSIGNMENT (50%) | | | -603 |
| PARTIAL ASSIGNMENT (220/) | | ı l | 1 | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY INC | NOT LESS THAN 1/8 | | | - |
| | | | | | | SOUTH ANY LEC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | | |

| 23 | FK108088 | p/o 02-0006-0011-0000 | FK108088 | CNX GAS COMPANY LLC | NODIE ENERGY ING | | | |
|-----|----------|--|----------|--|--|-------------------------------------|------------|-----|
| | | | | NOBLE ENERGY, INC. | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | -I |
| | | | | DOMINON TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 717 | |
| | | l l | | The manifestory, inc. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | 722 | |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | | SECOND AMENDMENT TO MEMORANDUM OF | WVSOS | S |
| | | I I | | DOWNTON ENERGY TRANSPILSSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | | |
| | | | | DOMINION ENERGY TRANSPORTER | | THIRD AMENDMENT TO MEMORANDUM OF | 723 | 3 |
| | | 1 | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | | |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ACCIONATIVE (COST) | 734 | 1 |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) MINERAL DEED | 736 | 5 |
| | T. | 1 | | EDA FRANCES GAMSJAGER, WIDOW | J.M.L. SMITH | | 740 | |
| | | 1 | | RICHARD MCCULLOUGH AND CLAIRE MCCULLOUGH, HIS WIFE; | | NOT LESS THAN 1/8 | 61 | |
| | | 1 | | MICHEAL [sic] J. SCULLY AND JEAN SCULLY, HIS WIFE: J.M.L. SMITH | | | | |
| | | 1 | | AND ROY W. SMITH, HIS WIFE | KEWANEE OIL COMPANY | | | 1 |
| | | | | KEWANEE OIL COMPANY | JOHN S. BAILEY | ASSIGNMENT | 62 | ı |
| | | 1 | | JOHN S. BAILEY AND MATILDA MCG. BAILEY, HIS WIFE | | ASSIGNMENT | 68 | |
| | | 1 | | H. DEE WHITE, M.J. WARREN, AND M.R. WITSMAND, PARTNERS, DBA | TRIANGLE OIL COMPANY | ASSIGNMENT | 08 | _ |
| | | 1 1 | | TRIANGLE OIL COMPANY | | | /1 | _ |
| | 1 | 1 | | CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R. | CARSON PETROLEUM CORPORATION | ASSIGNMENT | ya basania | |
| | 1 | 1 | | WORL ROYAL W. CARSON III, MACK R. | | | 123 | |
| | 1 | | | WORL, ROYAL W. CARSON JR., AND EMILY CARSON | DEVON ENERGY CORPORATION | ASSIGNMENT | | |
| | | 1 | | DEVON ENERGY CORPORATION (NEVADA), ET AL | DEVON INVESTORS LTD | CONVEYANCE | 126 | |
| | 1 | r 1 | | H. DEE WHITE, M.J. WARREN, AND M.R. WITSMAND, PARTNERS, DBA | | CONVETANCE | 144 | |
| | | 02-0010-0005-0000 | | TRIANGLE OIL COMPANY | NEW TRIANGLE OIL COMPANY | ACCICAL ATAIN | | |
| | | 02-0010-0005-0001 | | DEVON INVESTORS LTD | DEVON ENERGY CORPORATION (DELAWARE) | ASSIGNMENT | 149 | |
| 9 | POS-10 | 02-0010-0005-0002 | POS-10 | DEVON ENERGY CORPORATION (DELAWARE) | DEVON ENERGY CORPORATION (NEVADA) | ASSIGNMENT | 156 | |
| * | | 02-0010-0005-0003 | | | ABARTA OIL & GAS CO., INC (90%) | ASSIGNMENT | 163 | |
| | | 02-0010-0009-0000 | | DEVON ENERGY CORPORATION (NEVADA) | ALLEGHENY INTERESTS INC (10%) | | 100 | |
| | | | | | ALLEGIENT INTERESTS INC (10%) | ASSIGNMENT | 178 | |
| | | | | MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC | APARTA OU S CAS SOLIR LIVE | | 1/6 | |
| | 1 | | | NEW TRIANGLE OIL COMPANY, ET AL | ABARTA OIL & GAS COMPANY INC | ASSIGNMENT | 104 | |
| | | | | PROFESSIONAL OILFIELD SERVICES INC | PROFESSIONAL OILFIELD SERVICES INC | ASSIGNMENT | 184 | - |
| | | | | ABARTA OIL AND GAS CO INC | BLUESTONE ENERGY PARTNERS | ASSIGNMENT | 194 | |
| | | 1 | | BLUESTONE ENERGY PARTNERS | ANTERO RESOURCES APPALACHIAN CORPORATION | ASSIGNMENT | 246 | |
| | | | | | ANTERO RESOURCES BLUESTONE LLC | MERGER/NAME CHANGE | 261 | |
| | | | | ANTERO RESOURCES APPALACHIAN CORPORATION | ANTERO RESOURCES CORPORATION | MERGER/NAME CHANGE | 288 | |
| | | | | ANTERO RESOURCES BLUESTONE LLC | ANTERO RESOURCES CORPORATION | | WVSOS | |
| | | | | ANTERO RESOURCES CORPORATION | PROFESSIONAL OILFIELD SERVICES INC | MERGER/NAME CHANGE | WVSOS | |
| - 1 | | N. Carlotte | | | 52 OLS 114C | PARTIAL ASSIGNMENT | 535 | |
| - 1 | | | | PROFESSIONAL OILFIELD SERVICES INC | HG ENERGY II APPALACHIA, LLC | | | 1 (|
| | | l | | PROFESSIONAL OILFIELD SERVICES INC | HG ENERGY II APPALACHIA, LLC | MEMORANDUM OF OPTION FOR ASSIGNMENT | 532 | |
| | | | | ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA, LLC | PARTIAL ASSIGNMENT | 536 | |
| - 1 | 4 | | - | | | PARTIAL ASSIGNMENT | 543 | |
| | | | | STELLA SEVERIN, A WIDOW; AND ARDEN J. ASHCRAFT, A SINGLE MAN | DONALD C CARVIN | | 5.5 | |
| | | | | DONALD S. GARVIN | | NOT LESS THAN 1/8 | 02 | |
| | | | | | JOHN R. WARREN | ASSIGNMENT | 93 | _ |
| | I | _ | | | | | 93 | |
| | | m ¥ | | | CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR.; | | | |
| - 1 | i | Office | | | DEVONSHIRE INVESTMENT CO., H. L. HODGES, J. D. HODGES | | 1 | |
| | | 3 7 7 | | | STAN LITTLETON, COLONEL H. NELSON, PETER G. PIERCE. | | 1 | |
| | | 30 / 38 | | Consequence 11 Secretary Consequence Conse | VIRGINIA PIERCE, CHARLES PURCELL, JR.; H. E. RAINBOLT, | | 1 | |
| - 1 | | Dep Dep | | The state of the s | HARRY SCHNITTGER, H. SETH WOOD, TOM G. YARBRO | ASSIGNIAGAIT | 1 | |
| | | nta 8 | | III OI ITIII DIO | JOHN R. WARREN, DBA, WARREN DRILLING COMPANY | ASSIGNMENT | 94 | |
| - 1 | 1 | ano 26 | | STATE OF STREET, STR | JOHN R. WARREN, DBA, WARREN DRILLING COMPANY | ASSIGNMENT | 99 | |
| | | 2024 | | STAN LITTLETON | N.R. LITTLETON | ASSIGNMENT | 99 | |
| I. | 1 | of Oil and Case Of Oil and Case On Department of Onmental Profestion | | IH I HODGES | JOHN R. WARREN | ASSIGNMENT | 100 | |
| | | 0 - | | | OTHER. WARREN | ASSIGNMENT | 104 | _ |

| 1 | | 1 | 1 | CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR; | | | | |
|-----|--------------|--|---------------------|--|--|--|---------|------|
| | 1 | 1 | | DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON, | | | | |
| | 1 | | 1 | COLONEL H. NELCON, PETER C. D. HODGES, N. R. LITTLETON, | | _ | | |
| | 1 | 1 | | COLONEL H. NELSON, PETER G. PIERCE, H. E. RAINBOLT, HARRY | | | | 1 |
| | | | | SCHNITTGER, ROMAYNE WARREN, H. SETH WOOD | JOHN R. WARREN, DBA, WARREN DRILLING COMPANY | | | 1 |
| | | 02-0006-0010-0000 | | CLAUDE BARTON, JOHN CHIAF, JOE H. CUNNINGHAM, JR; | WARREN BRIEFING COMPANY | ASSIGNMENT | 104 | 4 |
| | | 02-0006-0010-0001 | | DEVONSHIRE INVESTMENT CO., J. D. HODGES, N. R. LITTLETON, | | | 104 | |
| /24 | ARC-011659 | The second secon | | COLONEL H. NELSON, PETER G. PIERCE, VIRGINIA PIERCE H. E. | 1 | | | |
| / | 71110 011000 | THRU | ARC-011659 | RAINBOLT, HARRY SCHNITTGER, H. SETH WOOD | IOUNID WARREN BRANCO | | | 1 |
| 1 | | 02-0006-0010-0006 | | JOHN R. WARREN, DBA WARREN DRILLING COMPANY | JOHN R. WARREN, DBA, WARREN DRILLING COMPANY | ASSIGNMENT | | 1 |
| | | (DODDRIDGE) | 1 | ROCKWELL PETROLEUM COMPANY | ROCKWELL PETROLEUM COMPANY | ASSIGNMENT | 104 | |
| | | 1 | | ROCKWELL PETROLEUM COMPANY | CPC 78-E | ASSIGNMENT | 104 | |
| | | 1 | 1 | ROCKWELL PETROLEUM COMPANY | CPC 78-E | ASSIGNMENT | 107 | |
| | | 1 | | ROCKWELL PETROLEUM COMPANY | ROBERT R. JONES | ASSIGNMENT | 107 | |
| | | 1 | | CARSON PETROLEUM CORPORATION | MACK R. WORL | ASSIGNMENT | 127 | |
| | | 1 | | CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R | | ASSIGNIVIENT | 129 | |
| | | 1 | | WORL, ROYAL W. CARSON JR, AND EMILY CARSON | DEVON ENERGY CORPORATION | | | |
| | 1 | į. | | DEVON ENERGY CORPORATION (NEVADA) | ROBERT R. JONES | ASSIGNMENT | 126 | |
| | | | | | | ASSIGNMENT | 179 | |
| | | | | ROBERT R. JONES, INDIVIDUALLY, JUDITH L. JONES, INDIVIDUALLY, | | | 1/5 | |
| | | 1 | | AND ROBERT R. JONES D/B/A CONTINENTAL PETROLEUM COMPANY | CONTINENTAL DETECTION | | | |
| | | | | ROCKWELL PETROLEUM COMPANY; ROCKWELL PETROLEUM | CONTINENTAL PETROLEUM LLC | ASSIGNMENT | 1 | |
| | i | 1 | | CORPORATION; ROCKWELL RESOURCES, LLC; MACKR. WORL; MARCIE | | | 191 | 1 |
| | | 1 | 1 | WORL KIRCHBERG; AND RICHARD CRAIG WORL, AND THEIR | | | 1 | |
| | | 1 | | AFFILIATES AND COMPANIES | | 1 | 1 1 | |
| | | 1 | | CONTINENTAL PETROLEUM AND TO | ROBERT R. JONES | ACCICAINATAIT | | |
| | 1 | 1 | | CONTINENTAL PETROLEUM, AND ROBERT R. JONES | ANTERO RESOURCES APPALACHIAN CORPORATION | ASSIGNMENT | 260 | 4 |
| | | 1 | | ROCKWELL RESOURCES LLC | ANTERO RESOURCES APPALACHIAN CORPORATION | ASSIGNMENT | 267 | 4 |
| | 1 | | 1 | ANTERO RESOURCES APPALACHIAN CORPORATION | ANTERO RESOURCES CORPORATION | ASSIGNMENT | 267 | 24 |
| | | | | ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA, LLC | MERGER/NAME CHANGE | WVSOS | 24 |
| | | | | ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA, LLC | PARTIAL ASSIGNMENT | | |
| | | 1 | | EDMOND COLE AND MARIE COLE, HIS WIFE | | PARTIAL ASSIGNMENT | 531 | 12 |
| | | 1 | 1 | RICHARD MCCULLOUGH AND CLAIRE MCCULLOUGH, HIS WIFE; | J.M.L. SMITH | NOT LESS THAN 1/8 | 543 | 10 |
| | | 1 | | MICHEAL [sic] J. SCULLY AND JEAN SCULLY, HIS WIFE; J.M.L. SMITH | | | 61 | 21 |
| | | | | AND ROY W. SMITH, HIS WIFE | | | | |
| | | | | KEWANEE OIL COMPANY | KEWANEE OIL COMPANY | ASSIGNMENT | | |
| | | | | JOHN S. BAILEY AND MATILDA MCG. BAILEY, HIS WIFE | JOHN S. BAILEY | ASSIGNMENT | 62 | |
| | | | | H. DEE WHITE AND MARRET AND MICH. BAILEY, HIS WIFE | TRIANGLE OIL COMPANY | | 68 | 43 |
| 1 | | | | H. DEE WHITE, M.J. WARREN, AND M.R. WITSMAN, PARTNERS, DBA | | ASSIGNMENT | 71 | 5 |
| Į . | | | | TRIANGLE OIL COMPANY | CARSON PETROLEUM CORPORATION | | | |
| | | | | CARSON PETROLEUM CORPORATION, ROYAL W. CARSON III, MACK R. | Serial Station | ASSIGNMENT | 121 | 70. |
| | | | | WORL, ROYAL W. CARSON JR., AND EMILY CARSON | DEVON ENERGY CORPORATION | | | 70. |
| | | | | H. DEE WHITE, M.J. WARREN, AND M.R. WITSMAND, PARTNERS, DBA | -11 ON ENERGY CORPORATION | ASSIGNMENT | 126 | •• |
| / | | | | TRIANGLE OIL COMPANY | NEW TRIANGLE OU COMPANY | | 120 | 434 |
| | | | | DEVON ENERGY CORPORATION (DELAWARE) | NEW TRIANGLE OIL COMPANY | ASSIGNMENT | 110 | |
| 30 | POS-16 | 02-0006-0009-0000 | POS-16 | · | DEVON ENERGY CORPORATION (NEVADA) | ASSIGNMENT | 149 | 174 |
| | | | LO2-10 | DEVON ENERGY CORPORATION (NEVADA) | ABARTA OIL & GAS CO., INC (90%) | | 163 | 69 |
| | | | | TOTAL OTHER THE VADA) | ALLEGHENY INTERESTS INC (10%) | ASSIGNMENT | 135-200 | |
| | | | | MERIDIAN EXPLORATION CORP AND ALL SOLLEN | | . SELECTIVE IN THE SELECTION OF THE SELE | 178 | 682 |
| | | | | MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC NEW TRIANGLE OIL COMPANY, ET AL | ABARTA OIL & GAS COMPANY INC | ASSIGNMENT | | |
| | | | Q | PROCESSIONAL OUTSIELD OFFICE | PROFESSIONAL OILFIELD SERVICES INC | ASSIGNMENT | 184 | 434 |
| 1 | 1 | | RECEIVED of Oil and | PROFESSIONAL OILFIELD SERVICES INC | BLUESTONE ENERGY PARTNERS | ASSIGNMENT | 194 | 277 |
| | 1 | NOV D | Ö TI | AND GAS COINC | ANTERO RESOURCES APPALACHIAN CORPORATION | ASSIGNMENT | 246 | 181 |
| | 1 | 9 2 | Of TO | | ANTERO RESOURCES BLUESTONE LLC | ASSIGNMENT | 261 | 7/27 |
| | | De | OH | EMPERO RESOURCES AFFALACHIAN CURPURATION | ANTERO RESOURCES BLUESTONE LLC | MERGER/NAME CHANGE | 288 | 463 |
| 1 | | epa lent | ¥Z | ANTERO RESOURCES BLUESTONE LLC | ANTERO RESOURCES CORPORATION | MERGER/NAME CHANGE | | 1 |
| | | artir artir | 当日 | ANTERO RESOURCES CORROR TELEVIOLE | ANTERO RESOURCES CORPORATION | MERGER/NAME CHANGE | WVSOS | |
| | | NOV 0.8 2024 WV Department of WV Department Protection Environmental Protection | Ja O | TO TO THE TOTAL OF | PROFESSIONAL OILFIELD SERVICES INC | PARTIAL ASSIGNMENT | WVSOS | |
| | | 2024 ment of Prote | G) | PROFESSIONAL OILFIELD SERVICES INC | | | 535 | 19 |
| | | lec o + | Gas | PROFESSIONAL OUTTELD SERVICES INC. | HG ENERGY II APPALACHIA, LLC | MEMORANDUM OF OPTION FOR ASSIGNMENT | | |
| | | × | | INC | LC ENERGY II ARRAM COM | I THE TOTAL POLICE OF THE PROPERTY IN THE PROP | 0.00000 | - 1 |
| | | ō | | and a service of the | HG ENERGY II APPALACHIA, LLC | PARTIAL ASSIGNMENT | 532 | 621 |

| | | | | ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA, LLC | PARTIAL ASSIGNMENT | | |
|------|-----------|-----------------------|-----------|---|--|------------------------------|-------|-----|
| | | | | JOSEPH I. SCHULTE AND LULA M. SCHULTE, HIS WIFE; RETA BUSH AN | D | PARTIAL ASSIGNIVIENT | 543 | |
| | | | | CLARENCE, HER HUSBAND; ROSALIA RUPPERT AND ED RUPPERT, HEI | 3 | | | |
| | | | | HUSBAND; AND IRENE SCHULTE, SINGLE | ROCKWELL PETROLEUM COMPANY | NOT LESS THAN 1/8 | 1 1 | |
| | | 1 | RRJII-1 | JOSEPH I. SCHULTE AND LULA M. SCHULTE, HIS WIFE; RETA BUSH AN | | | 110 | |
| | 1 | | | CLARENCE, HER HUSBAND; ROSALIA RUPPERT AND ED RUPPERT, HER | 3 | | | |
| | | p/o 02-0006-0003-0000 | | HUSBAND; AND IRENE SCHULTE, SINGLE | ROCKWELL PETROLEUM COMPANY | | | 1 |
| | | | | WILLIAM SCHULTE AND ELIZABETH, HIS WIFE | ROCKWELL PETROLEUM COMPANY | NOT LESS THAN 1/8 | 110 | |
| | | | | MATTHEW C. SCHULTE AND PRISCELLA, HIS WIFE | ROCKWELL PETROLEUM COMPANY | NOT LESS THAN 1/8 | 110 | |
| | | | | ROCKWELL PETROLEUM COMPANY, ROBERT R. JONES, INDIVIDUALLY | ROCKWELL PETROLEUM COMPANY | NOT LESS THAN 1/8 | 111 | |
| | | | | AND MARK R. WORL, INDIVIDUALLY | CARSON PETPOLEUM CORPORATION | | 111 | 14 |
| / 33 | RRJII-1 | | | CARSON PETROLEUM CORPORATION; ROYAL W. CARSON, III; MACK F | | ASSIGNMENT | 122 | |
| / 33 | | | | WORL; ROYAL W. CARSON, JR.; AND EMILY CARSON | DEVON ENERGY CORPORATION | ASSIGNMENT | 123 | 82 |
| | | | | ROCKWELL PETROLEUM COMPANY, CARSON PETROLEUM | | | 126 | |
| | | | | CORPORATION | | | 126 | 43 |
| | | | | DEVON ENERGY CORPORATION | DEVON ENERGY CORPORATION | ASSIGNMENT | | |
| | | | | - 11 STEROT CORTORATION | DEVON ENERGY CORPORATION (NEVADA) | ASSIGNMENT | 128 | 2 |
| | | 1 | | DEVON ENERGY CORPORATION (NEWADA) | ABARTA OIL & GAS CO INC (90%); ALLEGHENY INTERESTS INC | I BOIGHTIENT | WVSOS | |
| | 1 | | | DEVON ENERGY CORPORATION (NEVADA) | (10%) | ASSIGNMENT | | |
| | | | | MEDIDIAN FUN CONTINUES | ASSIGNATION | 178 | 6 | |
| | | | | MERIDIAN EXPLORATION CORP AND ALLEGHENY INTERESTS INC | ABARTA OIL & GAS COMPANY INC | ASSIGNMENT | | |
| | | | | ABARTA OIL AND GAS CO INC | ANTERO RESOURCES APPALACHIAN CORPORATION | ASSIGNMENT | 184 | 4 |
| | | | | ANTERO RESOURCES APPALACHIAN CORPORATION | ANTERO RESOURCES CORPORATION | MERGER/NAME CHANGE | 261 | 46 |
| | | | | ROBERT R JONES II | HG ENERGY II APPALACHIA, LLC | | 46 | 52 |
| | | | | ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA, LLC | PARTIAL ASSIGNMENT | 535 | 11 |
| | 1 | 1 | ARC-48372 | GEORGE J. DETERMAN AND JOSEPHINE F. DETERMAN, HIS WIFE | W.B. BERRY | PARTIAL ASSIGNMENT | 543 | 10 |
| | | 02-0006-0004-0000 | | W.B. BERRY | J & J ENTERPRISES INC | NOT LESS THAN 1/8 | 105 | 30 |
| / 32 | ARC-48372 | | | J & J ENTERPRISES INC | BENSON DRILLING JOINT VENTURE NO. 3 | ASSIGNMENT | 112 | 24 |
| | | | | J & J ENTERPRISES INC | EASTERN AMERICAN ENERGY CORPORATION | JOINT VENTURE AND ASSIGNMENT | 112 | 25 |
| | | | | BENSON DRILLING ASSOCIATES NO. 3 | EASTERN AMERICAN ENERGY CORPORATION | CONFIRMATORY DEED | 159 | 13 |
| | | | | BENSON DRILLING JOINT VENTURE NO. 3 | EASTERN AMERICAN ENERGY CORPORATION | ASSIGNMENT | 166 | 49 |
| | | | | BENSON DRILLING JOINT VENTURE NO. 3 | EASTERN AMERICAN ENERGY CORPORATION EASTERN AMERICAN ENERGY CORPORATION | ASSIGNMENT | 167 | 28 |
| | | | | EASTERN AMERICAN ENERGY CORPORATION | ENERGY CORPORATION OF AN AFRANCE | ASSIGNMENT | 167 | 29 |
| | | | | ENERGY CORPORATION OF AMERICA | ENERGY CORPORATION OF AMERICA | MERGER/NAME CHANGE | 240 | 49 |
| | | | | EASTERN AMERICAN ENERGY CORPORATION | EASTERN ENERGY CORPORATION OF AMERICA | CONFIRMATORY DEED | 240 | |
| | | | | ENERCY CORROBATION OF THEFT | ENERGY CORPORATION OF AMERICA | MERGER/NAME CHANGE | 283 | 49 |
| | | | | ANTERO RESOURCES APPALACHIAN CORPORATION | ANTERO RESOURCESAPPALACHIAN CORPORATION | ASSIGNMENT | 272 | 43. |
| | | | | | ANTERO RESOURCES CORPORATION | MERGER/NAME CHANGE | 46 | 307 |
| | | | | ENERGY CORPORATION OF AMERICA David B. Berry, Trustee of the WB Berry Energy Testamentary Trust of | ANTERO RESOURCES CORPORATION FKA ANTERO RESOURCES | ASSIGNMENT | 46 | 52. |
| | | | | | APPALACHIAN CORPORATION | | | |
| | | | | Sucan Tananain | | | 328 | 64 |
| | | | | | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | | |
| | | | | David B. Berry, Trustee of the WB Berry Energy Testamentary Trust of ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 535 | 136 |
| | | | | ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA LLC | | 353 | 136 |
| | | | | ANTERO RESOURCES CORPORATION | HG ENERGY II APPALACHIA, LLC | PARTIAL ASSIGNMENT | 531 | |

NOV 0.8 2024

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

41040000



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

Wt 4746000

October 17, 2024

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

RE:

Van Wie 1221 N-2H Drill Permit Revision Request – (47-041-05761)

Freemans Creek District, Lewis County

West Virginia

Dear Mr. Blevins -

Per our discussions, enclosed are revised forms (survey plat, mylar, AOR, WW-6B, casing schematic, and WW-6A1) and a check for expedited service for the 1221 N-2H well work drill permit revision request. We ask the permit to be modified to include additional acquired leases and revised well plans for the lateral.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

cc:

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Office of Oil and Gas

NOV 08 2024

WV Department of Environmental Protection

Ken Greynolds – WV DEP State Inspector