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west virginia department of environmental protection

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

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

Tuesday, May 4, 2021  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit Modification Approval for MCDONALD 1211 S-7H  
47-041-05704-00-00

**Extended lateral length**

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 positioned above the printed name and title.

James A. Martin  
Chief

Operator's Well Number: MCDONALD 1211 S-7H  
Farm Name: HG ENERGY II APPALACHIA, LLC  
U.S. WELL NUMBER: 47-041-05704-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 5/4/2021

Promoting a healthy environment.

05/07/2021

WW-6B  
(04/15)

4704105704  
API NO. 47- -  
OPERATOR WELL NO. McDonald 1211 S-7H  
Well Pad Name: McDonald 1211

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

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

2) Operator's Well Number: McDonald 1211 S-7H Well Pad Name: McDonald 1211

3) Farm Name/Surface Owner: McDonald Public Road Access: SR 19

4) Elevation, current ground: 1280' Elevation, proposed post-construction: 1264.5'

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): 4/26/2021  
Marcellus at 6753'/6835' and 82' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 6800'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 29,224'

11) Proposed Horizontal Leg Length: 21,069'

12) Approximate Fresh Water Strata Depths: 34', 107', 205', 229', 249'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-5128, 3938, 4929)

14) Approximate Saltwater Depths: 1299', 1675'

15) Approximate Coal Seam Depths: 810' to 815'

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

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

APR 29 2021

WV Department of  
Environmental Protection

WW-6B  
(04/15)

4704105704  
API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. McDonald 1211 S-7H  
Well Pad Name: McDonald 1211

18)

**CASING AND TUBING PROGRAM**

| <b>TYPE</b>      | <b>Size (in)</b> | <b>New or Used</b> | <b>Grade</b> | <b>Weight per ft. (lb/ft)</b> | <b>FOOTAGE: For Drilling (ft)</b> | <b>INTERVALS: Left in Well (ft)</b> | <b>CEMENT: Fill-up (Cu. Ft.)/CTS</b> |
|------------------|------------------|--------------------|--------------|-------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Conductor        | 30"              | New                | LS           | 157.5                         | 120'                              | 120'                                | Drilled In                           |
| Fresh Water/Coal | 20"              | NEW                | J-55         | 94                            | 1000'                             | 1000'                               | CTS                                  |
| Intermediate 1   | 13 3/8"          | NEW                | J-55 BTC     | 68                            | 2040'                             | 2040'                               | CTS                                  |
| Intermediate 2   | 9 5/8"           | NEW                | J-55 BTC     | 40                            | 2750'                             | 2750'                               | CTS                                  |
| Production       | 5 1/2"           | NEW                | P-110 HP     | 23                            | 29224'                            | 29224'                              | CTS                                  |
| Tubing           |                  |                    |              |                               |                                   |                                     |                                      |
| Liners           |                  |                    |              |                               |                                   |                                     |                                      |

*SDW  
4/26/2021*

| <b>TYPE</b>      | <b>Size (in)</b> | <b>Wellbore Diameter (in)</b> | <b>Wall Thickness (in)</b> | <b>Burst Pressure (psi)</b> | <b>Anticipated Max. Internal Pressure (psi)</b> | <b>Cement Type</b> | <b>Cement Yield (cu. ft./k)</b>          |
|------------------|------------------|-------------------------------|----------------------------|-----------------------------|---|--------------------|--|
| 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                       | 3950                        |   | Type 1/Class A     | Lead 40% excess, Tail 0% Excess          |
| Production       | 5 1/2"           | 8 1/2"                        | .415                       | 16240                       | 12500   | Type 1/Class A     | 20% excess yield = 1.10, tail yield 1.00 |
| Tubing           |                  |                               |                            |                             |   |                    |  |
| Liners           |                  |                               |                            |                             |   |                    |  |

**PACKERS**

|             |  |  |  |                                   |
|-------------|--|--|--|-----------------------------------|
| Kind:       |  |  |  |                                   |
| Sizes:      |  |  |  | RECEIVED<br>Office of Oil and Gas |
| Depths Set: |  |  |  | APR 29 2021                       |

WV Department of  
Environmental Protection

WW-6B  
(10/14)

4704105704  
API NO. 47- -  
OPERATOR WELL NO. McDonald 1211 S-7H  
Well Pad Name: McDonald 1211

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 6800 feet. Drill horizontal leg to estimated 21,069 lateral length, 29,224 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): 22.75 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.31 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 - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the last 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 - 15.8 ppg PNE-1 + 3% bwoc CaCl<sub>2</sub>, 40% Excess Yield = 1.20, CTS  
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub>, 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub> zero% Excess, CTS  
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub>, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub>, 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 MPA170, Tail: 14.6 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.19, Tail Yield=1.94, CTS

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.



1211 S-7H  
Marcellus Shale Horizontal  
Lewis County, WV

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Office of Oil and Gas  
APR 29 2021  
WV Department of Environmental Protection

|                  |                        |                             |                         | 1211 S-7H SHL         |             |                        |   | 14211858.99N 1789495.03E  |   |   |  |
|------------------|------------------------|-----------------------------|-------------------------|-----------------------|-------------|------------------------|---|---|---|---|--|
| Ground Elevation |                        | 1265.5'                     |                         | 1211 S-7H LP          |             |                        |   | 14210742.44N 1787259.49E  |   |   |  |
| Azm              |                        | 160.538°                    |                         | 1211 S-7H BHL         |             |                        |   | 14190884.2N 1794276.65E   |   |   |  |
| WELLBORE DIAGRAM |                        | HOLE                        | CASING                  | GEOLOGY               | TOP         | BASE                   | MUD   | CEMENT  | CENTRALIZERS  | CONDITIONING  | COMMENTS                               |
|                  | 30"                    | 30" 157.5# LS               | Conductor               | 0                     | 120         | AIR                    | N/A, Casing to be drilled in w/ Dual Rotary Rig   | N/A   |   | Ensure the hole is clean at TD.   | Conductor casing = 0.5" wall thickness |
|                  | 26"                    | 20" 94# J-55                | Fresh Water             | 0                     | 205         | AIR                    | 15.6 ppg PNE-1 + 3% bwoc CaCl<br>40% Excess<br>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<br>Burst=2110 psi  |  |
|                  |                        |                             | Kittaning Coal          | 919                   | 924         |                        |   |   |   |   |  |
|                  |                        |                             | Fresh Water Protection  | 0                     | 1000        |                        |   |   |   |   |  |
|                  | 17.5"                  | 13-3/8" 68# J-55 BTC        | Big Lime                | 1480                  | 1545        | AIR / KCL Salt Polymer | Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<br>40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<br>zero% Excess. CTS  | Bow Spring on every joint<br><i>*will also be running ACP for isolating storage zone*</i> | Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.   | Intermediate casing = 0.480" wall thickness<br>Burst=3450 psi   |  |
|                  |                        |                             | Injun / Gantz (Storage) | 1545 / 1830           | 1650 / 1890 |                        |   |   |   |   |  |
|                  |                        |                             | Intermediate 1          | 0                     | 2040        |                        |   |   |   |   |  |
|                  | 12.25"                 | 9-5/8" 40# J-55 BTC         | Fifty / Thirty Foot     | 1940 / 2037           | 1965 / 2060 | AIR / KCL Salt Polymer | Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<br>40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<br>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<br>Burst=3950 psi   |  |
|                  |                        |                             | Gordon Stray / Gordon   | 2060 / 2130           | 2130 / 2220 |                        |   |   |   |   |  |
|                  |                        |                             | 5th Sand                | 2320                  | 2360        |                        |   |   |   |   |  |
|                  |                        |                             | Bayard Sand             | 2405                  | 2420        |                        |   |   |   |   |  |
|                  | 8.75" Vertical         | 5-1/2" 23# P-110 HP CDC HTQ | Speechley               | 3025                  | 3041        | AIR / 9.0ppg SOBMB     | <b>Lead:</b> 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170<br><b>Tail:</b> 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170<br>20% Excess<br>Lead Yield=1.19<br>Tail Yield=1.94<br>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<br>Burst=16240 psi<br>Note:Actual centralizer schedules may be changed due to hole conditions |  |
|                  |                        |                             | Balltown                | 3250                  | 3290        |                        |   |   |   |   |  |
|                  |                        |                             | Benson                  | 4340                  | 4350        |                        |   |   |   |   |  |
|                  | 8.75" Curve            |                             | Rhinestreet             | 6107                  | 6377        | 11.5ppg-12.5ppg SOBMB  |   |   |   |   |  |
| Cashaqua         |                        |                             | 6377                    | 6477                  |             |                        |   |   |   |   |  |
| Middlesex        |                        |                             | 6477                    | 6509                  |             |                        |   |   |   |   |  |
| West River       |                        |                             | 6509                    | 6580                  |             |                        |   |   |   |   |  |
| Burkett          |                        |                             | 6580                    | 6590                  |             |                        |   |   |   |   |  |
| Tully Limestone  |                        |                             | 6590                    | 6698                  |             |                        |   |   |   |   |  |
| Hamilton         |                        |                             | 6698                    | 6753                  |             |                        |   |   |   |   |  |
| 8.5" Lateral     | Marcellus              | 6753                        | 6845                    | 11.5ppg-12.5ppg SOBMB |             |                        |   |   |   |   |  |
|                  | TMD / TVD (Production) | 29224                       | 6840                    |                       |             |                        |   |   |   |   |  |
|                  |                        | Onondaga                    | 6845                    |                       |             |                        |   |   |   |   |  |

LP @ 6840' TVD / 8155' MD

8.5" Hole - Cemented Long String  
5-1/2" 23# P-110 HP CDC HTQ

+/-21069' ft Lateral

TD @ +/-6840' TVD  
+/-29224' MD

X=centralizers

4704105704

**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 \*\***

**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* RECEIVED  
Office of Oil and Gas

Its: Agent APR 29 2021

11,737' to Bottom Hole

4,568' to Top Hole

BTM LATITUDE 39 - 05 - 00  
TOP LATITUDE 39 - 10 - 00

TOP LONGITUDE 80 - 27 - 30  
BTM LONGITUDE 80 - 25 - 00

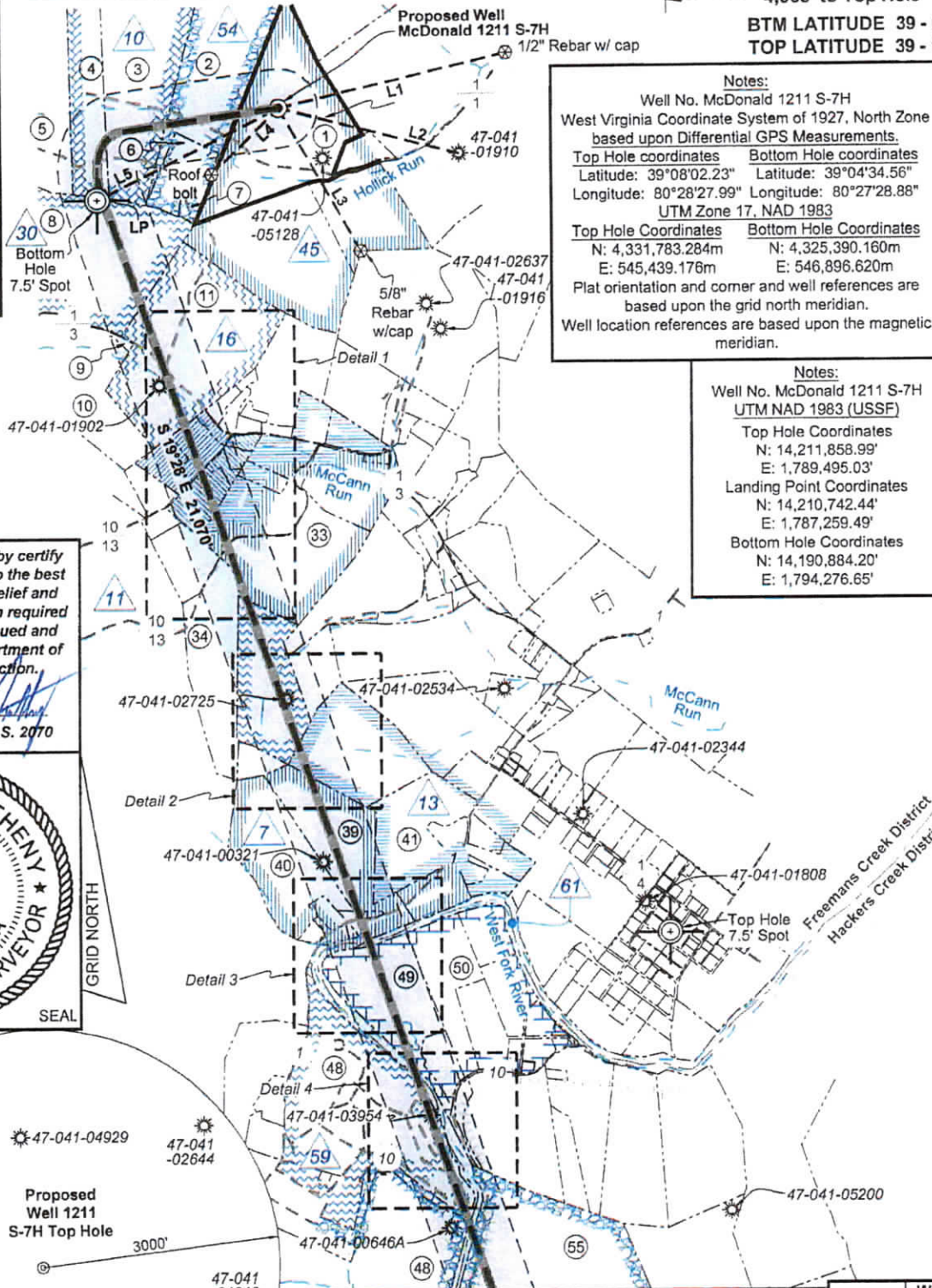
11,912 to Top Hole

2,573 to Bottom Hole

HG Energy II  
Appalachia, LLC  
Well No. McDonald  
1211 S-7H MOD



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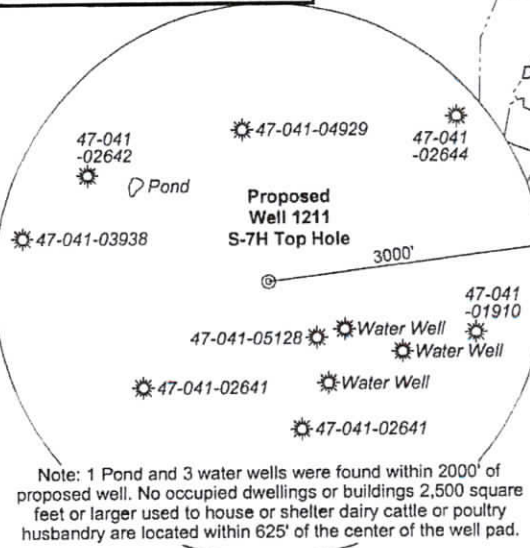


Notes:  
Well No. McDonald 1211 S-7H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°08'02.23" Latitude: 39°04'34.56"  
Longitude: 80°28'27.99" Longitude: 80°27'28.88"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,331,783.284m N: 4,325,390.160m  
E: 545,439.176m E: 546,896.620m  
Plat orientation and corner and well references are  
based upon the grid north meridian.  
Well location references are based upon the magnetic  
meridian.

Notes:  
Well No. McDonald 1211 S-7H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,211,858.99'  
E: 1,789,495.03'  
Landing Point Coordinates  
N: 14,210,742.44'  
E: 1,787,259.49'  
Bottom Hole Coordinates  
N: 14,190,884.20'  
E: 1,794,276.65'

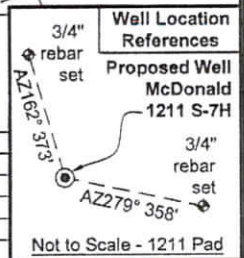
I, the undersigned, hereby certify  
that this plat is correct to the best  
of my knowledge and belief and  
shows all the information required  
by law and the rules issued and  
prescribed by the Department of  
Environmental Protection.

Dwayne D. Matheny, P.S. 2070



Note: 1 Pond and 3 water wells were found within 2000' 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.

| Tag | Bearing    | Dist.    |
|-----|------------|----------|
| L1  | S 76°49' W | 2,965.8' |
| L2  | N 75°29' W | 2,362.3' |
| L3  | N 29°41' W | 2,093.5' |
| L4  | N 45°25' E | 1,190.4' |
| L5  | S 63°28' W | 2,498.9' |



FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-7H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

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

DATE: April 26 2021  
OPERATOR'S WELL NO. McDonald 1211 S-7H  
API WELL NO  
47 - 041 - 05704  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC  
ROYALTY OWNER: Mary E. Post, et al, et al LEASE NO: \_\_\_\_\_ ACREAGE: 61.50

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD - Remove DP  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,225' MD

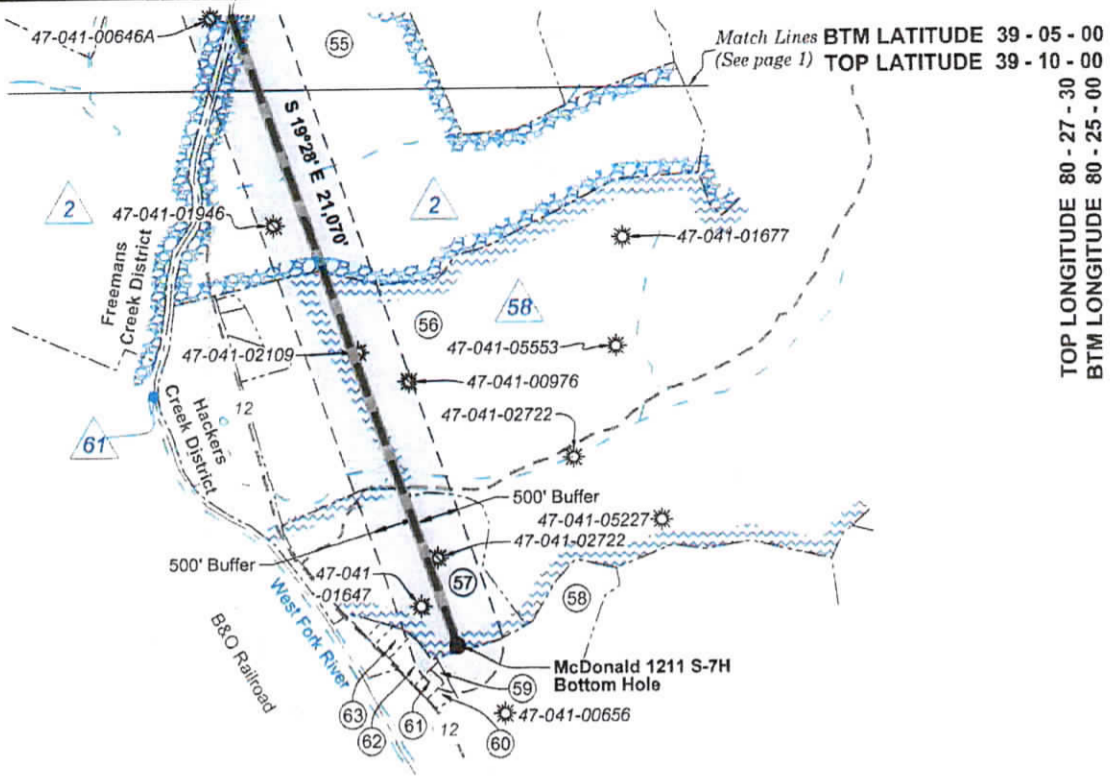
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101

RECEIVED  
TH - West Milford  
QUADRANGLE: BH - Weston  
COUNTY: Lewis APR 29 2021  
ACREAGE: 61.50  
05/07/2021  
Department of Environmental Protection

HG Energy II  
Appalachia, LLC  
Well No. McDonald  
1211 S-7H MOD

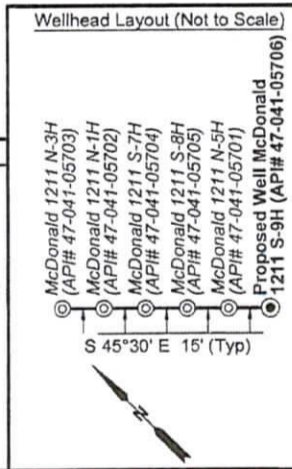


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| ID | Lease                              |
|----|------------------------------------|
| 2  | Prudence M. O'hara, et al          |
| 3  | T.S. Hoffman, et al                |
| 6  | Mary E. Clark, et vir              |
| 7  | W.A. Chittum, et al                |
| 10 | J.L. Post, et al                   |
| 11 | W.D. Hitt, et al                   |
| 12 | G.C. Smith                         |
| 13 | Bertha H. Nay, et al               |
| 28 | Mike Ross, Inc., et al             |
| 29 | J.L. Allman, et al                 |
| 30 | W.D. Allman, et al                 |
| 38 | C. Burke Morris, et al             |
| 39 | Cyrus W. Smith, et al              |
| 45 | Mary E. Post, et al                |
| 54 | Dominion Energy Transmission, Inc. |
| 58 | A.W. Woodford, et al               |
| 59 | WVU Board of Governors             |
| 61 | WVDNR                              |

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



FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-7H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: April 26 2021  
OPERATOR'S WELL NO. McDonald 1211 S-7H  
API WELL NO  
47 - 041 - 05704  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC  
ROYALTY OWNER: Mary E. Post, et al, et al

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD - Remove DP  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,225' MD

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

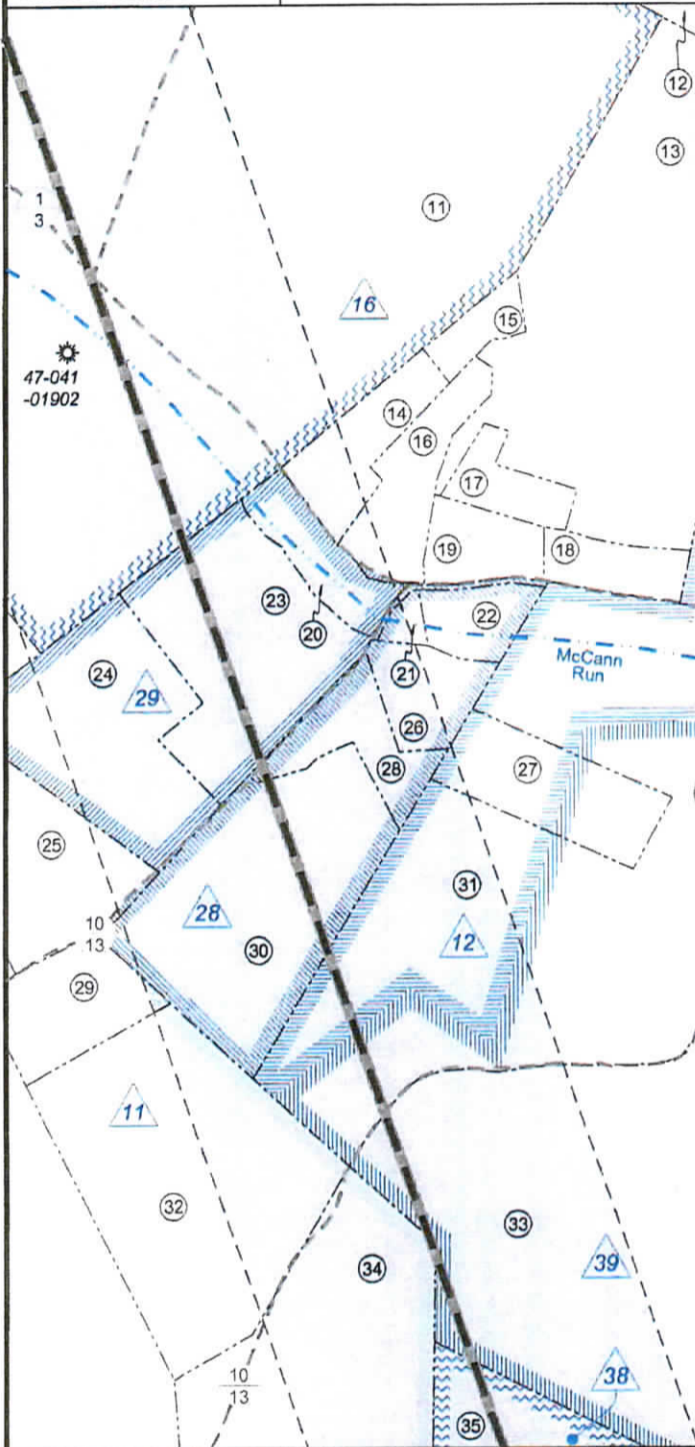
DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

RECEIVED  
Office of Oil and Gas  
TH - West Milford  
QUADRANGLE: BH - Weston  
COUNTY: Lewis  
ACREAGE: 61.50  
APR 29 2021  
WV Department of  
Environmental Protection  
05/07/2021



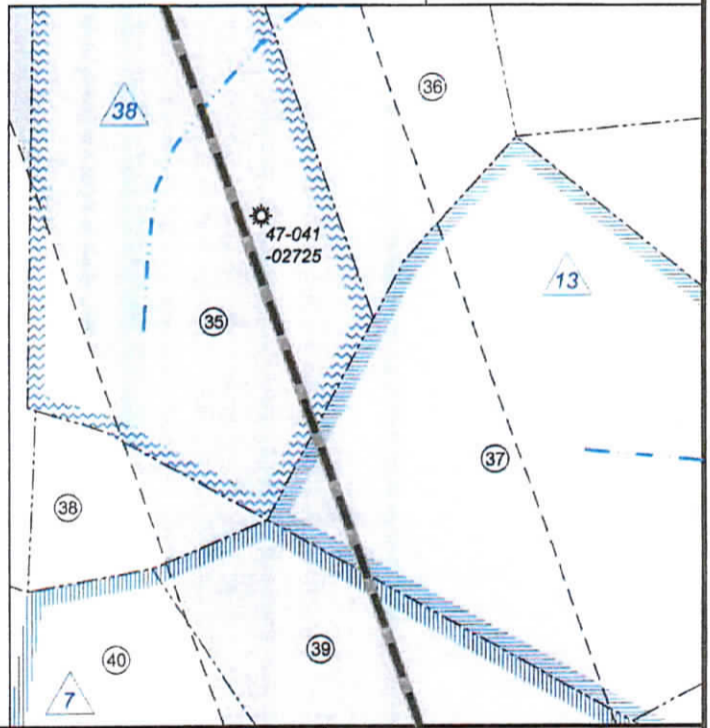


**Detail 1 - Scale: 1" = 500'**



| No. | TM / Par  | Owner                            | Bk / Pg   | Ac.   |
|-----|-----------|----------------------------------|-----------|-------|
| 1   | 7B / 10   | HG Energy II Appalachia, LLC     | 730 / 677 | 61.50 |
| 2   | 7B / 9    | Brincefield Family Trust         | 588 / 740 | 56.76 |
| 3   | 6B / 41   | Brincefield Family Trust         | 588 / 740 | 71.62 |
| 4   | 6B / 42   | Brincefield Family Trust         | 588 / 740 | 28.00 |
| 5   | 6B / 43   | Brincefield Family Trust         | 588 / 740 | 69.36 |
| 6   | 7B / 9.2  | Brincefield Family Trust         | 588 / 740 | 10.51 |
| 7   | 7B / 9.1  | Frank McDonald                   | 479 / 8   | 3.73  |
| 8   | 6B / 44   | David G. Layton                  | 697 / 278 | 75.50 |
| 9   | 6C / 59   | Charles W. & Debra D. Queen      | 543 / 274 | 0.55  |
| 10  | 6C / 62   | Bryan T. Beam                    | W46 / 461 | 37.83 |
| 11  | 6B / 47   | Michael A. & Christine A. Cutlip | 648 / 51  | 71.00 |
| 12  | 7B / 11   | HG Energy II Appalachia LLC      | 730 / 677 | 54.50 |
| 13  | 7C / 1    | William B. & Teresa A. McCormick | 605 / 385 | 22.76 |
| 14  | 7C / 1.1  | Timothy J. & Tawney A. Wyatt     | 509 / 18  | 2.10  |
| 15  | 7C / 1.2  | Timothy J. & Tawney A. Wyatt     | 509 / 18  | 0.77  |
| 16  | 7C / 1.3  | Cecil L. & Sona J. Dempsey       | 437 / 356 | 2.22  |
| 17  | 7C / 1.4  | Joyce Lea Williams               | 638 / 86  | 1.11  |
| 18  | 7C / 2    | Robert A. & Jane E. Horn         | 515 / 121 | 1.19  |
| 19  | 7C / 3    | Benjamin T. & Casey Brown        | 605 / 657 | 1.32  |
| 20  | 7C / 4    | Basil W. Allmon, Jr.             | 700 / 355 | 2.53  |
| 21  | 7C / 5.2  | Richard A. Westfall              | 674 / 151 | 0.26  |
| 22  | 7C / 5.1  | Shaun C. & Sheila K. Dempsey     | 506 / 752 | 1.15  |
| 23  | 6C / 56   | Kenneth B. & Lydia M. Burroughs  | 640 / 110 | 6.35  |
| 24  | 6C / 56.1 | Kenneth B. & Lydia M. Burroughs  | 361 / 369 | 6.12  |
| 25  | 6C / 55   | Kenneth B. & Lydia M. Burroughs  | 336 / 47  | 5.10  |

**Detail 2 - Scale: 1" = 500'**



FILE NO: 79-36-12-U-F-18  
 DRAWING NO: McDonald 1211 S-7H Well Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY:  
Submeter  
 PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

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

DATE: April 26 2021  
 OPERATOR'S WELL NO. McDonald 1211 S-7H  
 API WELL NO  
47 - 041 - 05704  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
 DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC  
 ROYALTY OWNER: Mary E. Post, et al, et al

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD - Remove DP  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,225' MD

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

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

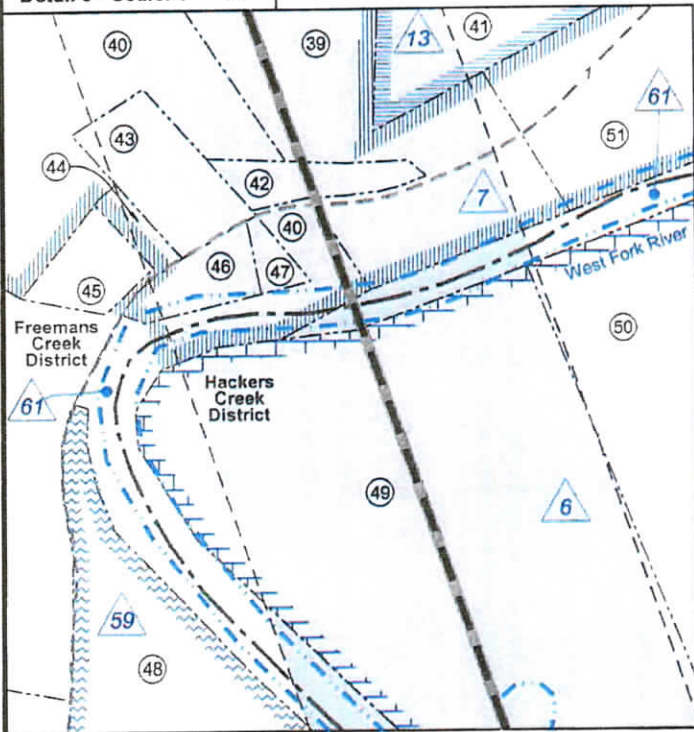
RECEIVED  
 Office of Oil and Gas TH - West Milford  
 QUADRANGLE: BH - Weston  
 COUNTY: Lewis  
 APR 29 2021

ACREAGE: 61.50  
 ACREAGE: 145.00  
 WV Department of Environmental Protection

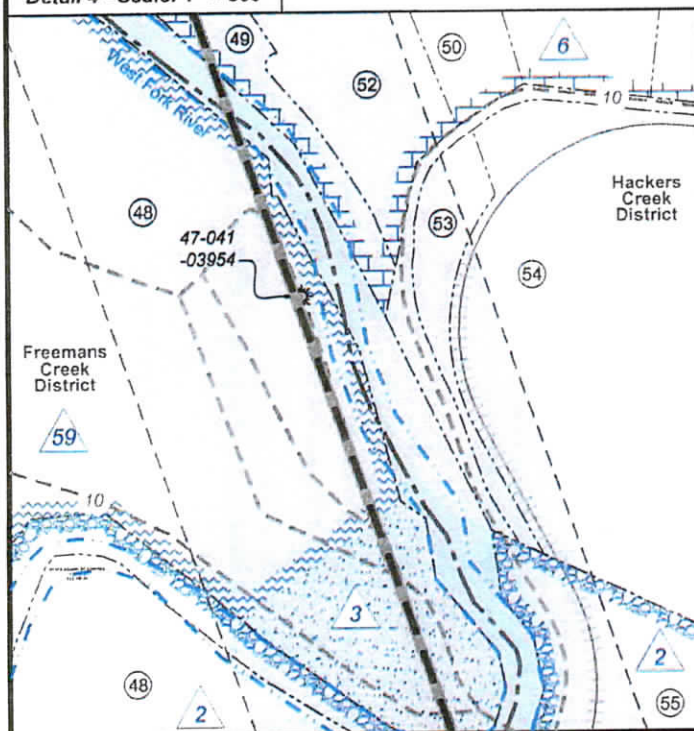
05/07/2021



Detail 3 - Scale: 1" = 500'



Detail 4 - Scale: 1" = 500'



| No. | TM / Par  | Owner                            | Bk / Pg   | Ac.    |
|-----|-----------|----------------------------------|-----------|--------|
| 26  | 7C / 5.3  | Phillip J. & Roberta A. Stutler  | 359 / 443 | 1.67   |
| 27  | 7C / 6.1  | Clinton C. & Gerilyn H. Beam     | 556 / 174 | 3.00   |
| 28  | 7C / 5.5  | Phillip J. & Roberta A. Stutler  | 400 / 733 | 1.68   |
| 29  | 6C / 54   | Kenneth B. & Lydia M. Burroughs  | 336 / 47  | 2.00   |
| 30  | 7C / 5    | James M. Posey                   | 667 / 710 | 6.06   |
| 31  | 7C / 6.3  | Clinton C. & Gerilyn H. Beam     | 636 / 200 | 19.33  |
| 32  | 6C / 53   | Kenneth B. & Lydia M. Burroughs  | 336 / 47  | 11.00  |
| 33  | 7C / 6.2  | Bette Garath                     | 412 / 593 | 36.15  |
| 34  | 7C / 7    | Bette Garath                     | 397 / 214 | 34.00  |
| 35  | 7C / 9    | Bette Garath                     | 397 / 214 | 31.00  |
| 36  | 7C / 8    | Bette Garath                     | 397 / 214 | 20.00  |
| 37  | 7C / 22   | Fred Allen Bailey                | 452 / 268 | 35.35  |
| 38  | 7C / 10   | Bette Garath                     | 397 / 214 | 4.20   |
| 39  | 7C / 11   | Roger A. Allman                  | 721 / 347 | 37.39  |
| 40  | 7C / 12   | Roger A. Allman                  | 721 / 347 | 36.35  |
| 41  | 7C / 22.2 | William B. Williams II           | 593 / 139 | 28.69  |
| 42  | 7C / 11.1 | Robert G. Elliot                 | 660 / 512 | 1.15   |
| 43  | 7C / 13   | Ethel J. Bulka                   | 545 / 372 | 2.40   |
| 44  | 7C / 14   | Jason Sloan                      | 633 / 605 | 0.43   |
| 45  | 7C / 15   | Dixie & Wilma Wine               | 536 / 490 | 1.15   |
| 46  | 7C / 17   | E. Jean Bulka                    | 605 / 841 | 1.20   |
| 47  | 7C / 18   | Elizabeth Stark                  | 717 / 457 | 0.75   |
| 48  | 7D / 32   | WVU Board of Governors           | 584 / 524 | 221.65 |
| 49  | 7D / 1    | James A. & Carol T. Smith        | 343 / 62  | 29.57  |
| 50  | 7D / 2    | Donna M. & Aubrey E. Smith, Jr.  | 677 / 726 | 20.25  |
| 51  | 7C / 19   | Nina R. Chapman, et al           | 665 / 345 | 9.11   |
| 52  | 7D / 3    | Larry H. McCoy                   | 367 / 208 | 7.18   |
| 53  | 7D / 4    | James A. & Carol T. Smith        | 343 / 62  | 2.48   |
| 54  | 7D / 13   | Christine G. & Paul R. Myers     | 657 / 110 | 33.36  |
| 55  | 7D / 5    | WVU Board of Governors           | 584 / 524 | 323.00 |
| 56  | 7D / 9.1  | Deerfield Country Club, Inc.     | 359 / 409 | 572.21 |
| 57  | 7E / 68   | Delores B. Adler                 | --- / --- | 67.11  |
| 58  | 7E / 29   | John K. & Susan D. Butcher       | 732 / 259 | 40.97  |
| 59  | 7E / 28   | Joshua T. & Crystal A. Frazier   | 642 / 97  | 0.60   |
| 60  | 7E / 22   | John W. Nash, et al              | 724 / 564 | 1.40   |
| 61  | 7E / 23   | Joshua T. & Crystal A. Frazier   | 642 / 97  | 1.25   |
| 62  | 7E / 24   | Janet L. & Loy Clifton Byrd, Jr. | 558 / 369 | 3.26   |
| 63  | 7E / 25   | Dennis E. & Whitney Ballard      | 572 / 820 | 1.53   |

FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-7H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

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

DATE: April 26 2021  
OPERATOR'S WELL NO. McDonald 1211 S-7H  
API WELL NO  
47 - 041 - 05704  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

RECEIVED  
TH - West Virginia Department of Oil and Gas  
QUADRANGLE: BH - Weston  
COUNTY: Lewis APR 29 2021  
ACREAGE: 61.50  
05/07/2021

SURFACE OWNER: HG Energy II Appalachia, LLC  
ROYALTY OWNER: Mary E. Post, et al, et al LEASE NO: ACREAGE: 145.00  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD - Remove DP 6,840' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,225' 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

HG Energy II Appalachia, LLC McDonald 1211 S-7H Lease Chain

RECEIVED  
Office of Oil and Gas  
APR 29 2021  
WV Department of  
Environmental Protection

| TRACT #                            | LEGACY LEASE NUMBER          | TAX MAP  | LEASE NUMBER | GRANTOR/LESSOR  | GRANTEE/LESSEE                             | ROYALTY   | DEED BOOK | PAGE |
|------------------------------------|------------------------------|--|--------------|---|--|---|-----------|------|
| 45                                 | FK053254                     | 03-007B-0010-0000<br>03-007B-0011-0000<br>03-007B-0013-0000<br>p/o 03-007B-0010-0001 | Q10048600    | MARY E. POST; J. L. POST; F. L. POST AND B. J. POST, HIS WIFE; IDA B. GASTON AND CLARK GASTON, HER HUSBAND; G. W. POST AND FLAVA POST, HIS WIFE | RESERVE GAS COMPANY                        | NOT LESS THAN 1/8                                   | 68        | 291  |
|                                    |                              |  |              | 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     |      |
|                                    |                              |  |              | DOMINION TRANSMISSION, INC.   | DOMINION EXPLORATION & PRODUCTION, INC.    | ASSIGNMENT  | 620       | 139  |
|                                    |                              |  |              | DOMINION EXPLORATION & PRODUCTION, INC.   | DOMINION TRANSMISSION, INC.                | ASSIGNMENT  | 651       | 137  |
|                                    |                              |  |              | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT                        | 672       | 154  |
|                                    |                              |  |              | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)                    | 684       | 57   |
|                                    |                              |  |              | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)                            | 712       | 848  |
|                                    |                              |  |              | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717       | 1    |
|                                    |                              |  |              | NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722       | 139  |
|                                    |                              |  |              | 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 | AMENDED AND RESTATED PARTIAL ASSIGNMENT  | 723          | 527   |  |   |           |      |
| 54                                 | FK052962                     | 03-007B-0009-0000<br>03-007B-0009-0001<br>03-007B-0009-0002                          |              | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY, LLC AND NOBLE ENERGY, INC | NOT LESS THAN 1/8                                   | 692       | 570  |
|                                    |                              |  |              | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT                        | 672       | 154  |
|                                    |                              |  |              | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)                    | 684       | 57   |
|                                    |                              |  |              | 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  |
| 10                                 | FK053255                     | 03-006B-0041-0000<br>03-006B-0042-0000   | Q100673000   | J.L. POST, F.L. POST AND B.J. POST, HIS WIFE  | RESERVE GAS COMPANY                        | NOT LESS THAN 1/8                                   | 68        | 292  |
|                                    |                              |  |              | 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     |      |
|                                    |                              |  |              | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT                        | 672       | 154  |
|                                    |                              |  |              | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)                    | 684       | 57   |
|                                    |                              |  |              | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)                            | 712       | 848  |
|                                    |                              |  |              | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717       | 1    |
|                                    |                              |  |              | NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722       | 139  |
|                                    |                              |  |              | 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               | AMENDED AND RESTATED PARTIAL ASSIGNMENT             | 723       | 527  |
| DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT                                  | 723          | 499   |  |   |           |      |

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4704105704

19

FK062191

03-006B-0034-0000  
03-006B-0043-0000

Q101045000

HENRY L. FRASHEUR AND ICIE FRASHEUR, HIS WIFE; BERTHA J. KELLY AND E.C. KELLY, HER HUSBAND; BERTHA BRINKLEY AND ALLMAN BRINKLEY, HER HUSBAND; MARY KATHERINE KEARNEY AND JAMES KEARNEY, HER HUSBAND; VIRGINIA PLUNKETT, MARRIED AND LIVING SEPARATE AND APART FROM HER HUSBAND, WILLIAM PLUNKETT; HALL POST AND NELLIE D. POST, HIS WIFE; WILLIAM G. POST AND EFFIE POST, HIS WIFE

HOPE NATURAL GAS COMPANY

NOT LESS THAN 1/8

RECEIVED  
Office of Oil and Gas

APR 29 2012

WV Department of  
Environmental Protection

211

478

HOPE NATURAL GAS COMPANY

CONSOLIDATED GAS SUPPLY CORPORATION

CONFIRMATORY DEED

294

89

CONSOLIDATED GAS SUPPLY CORPORATION

CONSOLIDATED GAS TRANSMISSION CORPORATION

ASSIGNMENT

425

127

CONSOLIDATED GAS TRANSMISSION CORPORATION

CNG TRANSMISSION CORPORATION

MERGER/NAME CHANGE

WVSOS

CNG TRANSMISSION CORPORATION

DOMINION TRANSMISSION, INC.

MERGER/NAME CHANGE

WVSOS

DOMINION TRANSMISSION, INC.

CNX GAS COMPANY LLC

MEMORANDUM FARMOUT AGREEMENT

672

154

CNX GAS COMPANY LLC

NOBLE ENERGY, INC.

LIMITED PARTIAL ASSIGNMENT (50%)

684

57

DOMINION TRANSMISSION, INC.

CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.

PARTIAL ASSIGNMENT (32%)

712

848

CNX GAS COMPANY LLC

NOBLE ENERGY, INC.

ASSIGNMENT

717

1

NOBLE ENERGY, INC.

HG ENERGY II APPALACHIA, LLC

ASSIGNMENT

722

139

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

AMENDED AND RESTATED PARTIAL ASSIGNMENT

723

527

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

736

220

30

FK064485

03-006B-0044-000

Q100858000

W. D. ALLMAN, WIDOWER; S. M. ALLMAN AND CORA B. ALLMAN, HIS WIFE; MAYME A. SMITH AND J. W. SMITH, HER HUSBAND; EARL WIMER, WIDOWER; ZELLA BROWN AND TRUMAN BROWN, HER HUSBAND; BERNICE A. WOODDELL, SINGLE; GUY ALLMAN, WIDOWER; LORA BAILEY, WIDOW; H. R. HAMMER, WIDOWER; FLOY RAMSBURG AND HUGH RAMSBURG, HER HUSBAND; RUSSELL ALLMAN AND RUTH ALLMAN, HIS WIFE; L. C. ALLMAN AND FLORENCE ALLMAN, HIS WIFE; LLOYD W. SMITH AND MARJORIE M. SMITH, HIS WIFE; KATHLEEN C. ALLMAN, WIDOW; R. T. SMITH AND LAVAUGHN SMITH, HIS WIFE; BERNARD M. WOODDELL AND MARY L. WOODDELL, HIS WIFE; RAYMOND ALLMAN AND LEO ALLMAN, HIS WIFE; A. C. ALLMAN AND ORA ALLMAN, HIS WIFE

HOPE NATURAL GAS COMPANY

NOT LESS THAN 1/8

222

15

HOPE NATURAL GAS COMPANY

CONSOLIDATED GAS SUPPLY CORPORATION

CONFIRMATORY DEED

294

89

CONSOLIDATED GAS SUPPLY CORPORATION

CONSOLIDATED GAS TRANSMISSION CORPORATION

ASSIGNMENT

425

127

CONSOLIDATED GAS TRANSMISSION CORPORATION

CNG TRANSMISSION CORPORATION

MERGER/NAME CHANGE

WVSOS

CNG TRANSMISSION CORPORATION

DOMINION TRANSMISSION, INC.

MERGER/NAME CHANGE

WVSOS

DOMINION TRANSMISSION, INC.

CNX GAS COMPANY LLC

MEMORANDUM FARMOUT AGREEMENT

672

154

CNX GAS COMPANY LLC

NOBLE ENERGY, INC.

LIMITED PARTIAL ASSIGNMENT (50%)

684

57

DOMINION TRANSMISSION, INC.

CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.

PARTIAL ASSIGNMENT (32%)

712

848

CNX GAS COMPANY LLC

NOBLE ENERGY, INC.

ASSIGNMENT

717

1

NOBLE ENERGY, INC.

HG ENERGY II APPALACHIA, LLC

ASSIGNMENT

722

139

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

AMENDED AND RESTATED PARTIAL ASSIGNMENT

723

527

DOMINION ENERGY TRANSMISSION, INC.

HG ENERGY II APPALACHIA, LLC

SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT

723

499

P. C. ALLMAN AND ELLA ALLMAN, HIS WIFE

SOUTH PENN OIL COMPANY

NOT LESS THAN 1/8

42

19

SOUTH PENN OIL COMPANY

HOPE NATURAL GAS COMPANY

ASSIGNMENT

85

127

HOPE NATURAL GAS COMPANY

RESERVE GAS COMPANY

ASSIGNMENT

79

370

RESERVE GAS COMPANY

HOPE NATURAL GAS COMPANY

CONFIRMATORY DEED

155

202

HOPE NATURAL GAS COMPANY

CONSOLIDATED GAS SUPPLY CORPORATION

CONFIRMATORY DEED

294

89

4704105704

16

FK053188

03-006B-0047-0000

Q100921000

|   |  |   |       |     |
|---|--|---|-------|-----|
| CONSOLIDATED GAS SUPPLY CORPORATION       | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT  | 425   | 127 |
| CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE                                  | WVSOS |     |
| CNG TRANSMISSION CORPORATION              | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE                                  | WVSOS |     |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT                        | 672   | 154 |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)                    | 684   | 57  |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)                            | 712   | 848 |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717   | 1   |
| NOBLE ENERGY, INC.                        | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722   | 139 |
| DOMINION TRANSMISSION, INC.               | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE                                  | WVSOS |     |
| DOMINION ENERGY TRANSMISSION, INC.        | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT             | 723   | 527 |
| DOMINION ENERGY TRANSMISSION, INC.        | HG ENERGY II APPALACHIA, LLC               | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | 723   | 499 |

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03-006B-0046-0000

Q100901000

T. S. ALLMAN AND MARY C. ALLMAN, HIS WIFE  
RESERVE GAS COMPANY  
RESERVE GAS COMPANY  
HOPE NATURAL GAS COMPANY  
HOPE NATURAL GAS COMPANY  
CONSOLIDATED GAS SUPPLY CORPORATION  
CONSOLIDATED GAS TRANSMISSION CORPORATION  
CNG TRANSMISSION CORPORATION  
CNG TRANSMISSION CORPORATION  
DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
NOBLE ENERGY, INC.  
DOMINION TRANSMISSION, INC.  
  
DOMINION ENERGY TRANSMISSION, INC.  
  
DOMINION ENERGY TRANSMISSION, INC.

RESERVE GAS COMPANY  
HOPE NATURAL GAS COMPANY  
CONSOLIDATED GAS SUPPLY CORPORATION  
CONSOLIDATED GAS TRANSMISSION CORPORATION  
CNG TRANSMISSION CORPORATION  
DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
NOBLE ENERGY, INC.  
CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.  
NOBLE ENERGY, INC.  
HG ENERGY II APPALACHIA, LLC  
DOMINION ENERGY TRANSMISSION, INC.  
  
HG ENERGY II APPALACHIA, LLC  
  
HG ENERGY II APPALACHIA, LLC

NOT LESS THAN 1/8  
CONFIRMATORY DEED  
CONFIRMATORY DEED  
ASSIGNMENT  
MERGER/NAME CHANGE  
MERGER/NAME CHANGE  
MEMORANDUM FARMOUT AGREEMENT  
LIMITED PARTIAL ASSIGNMENT (50%)  
PARTIAL ASSIGNMENT (32%)  
ASSIGNMENT  
ASSIGNMENT  
MERGER/NAME CHANGE  
SECOND AMENDMENT TO MEMORANDUM OF  
FARMOUT AGREEMENT  
  
AMENDED AND RESTATED PARTIAL ASSIGNMENT

140  
202  
89  
127  
  
672  
684  
712  
717  
722  
WVSOS  
723  
  
723  
527

31

FK064827

p/o 03-006C-0062-0000

Q100859000

FLOY RAMSBURG AND HUGH RAMSBURG, HER HUSBAND; GUY  
ALLMAN, WIDOWER; RUSSELL ALLMAN AND RUTH ALLMAN, HIS WIFE;  
L. C. ALLMAN AND FLORENCE ALLMAN, HIS WIFE; RAYMOND ALLMAN  
AND LEO ALLMAN, HIS WIFE; LORA A. BAILEY, WIDOW; GERALDINE  
HAMMER, SINGLE; AND A. C. ALLMAN AND ORA ALLMAN, HIS WIFE  
HOPE NATURAL GAS COMPANY  
HOPE NATURAL GAS COMPANY  
CONSOLIDATED GAS SUPPLY CORPORATION  
CONSOLIDATED GAS TRANSMISSION CORPORATION  
CNG TRANSMISSION CORPORATION  
CNG TRANSMISSION CORPORATION  
DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
NOBLE ENERGY, INC.  
DOMINION TRANSMISSION, INC.  
  
DOMINION ENERGY TRANSMISSION, INC.  
  
DOMINION ENERGY TRANSMISSION, INC.

HOPE NATURAL GAS COMPANY  
CONSOLIDATED GAS SUPPLY CORPORATION  
CONSOLIDATED GAS TRANSMISSION CORPORATION  
CNG TRANSMISSION CORPORATION  
DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
NOBLE ENERGY, INC.  
CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.  
NOBLE ENERGY, INC.  
HG ENERGY II APPALACHIA, LLC  
DOMINION ENERGY TRANSMISSION, INC.  
  
HG ENERGY II APPALACHIA, LLC  
  
HG ENERGY II APPALACHIA, LLC

NOT LESS THAN 1/8  
CONFIRMATORY DEED  
ASSIGNMENT  
MERGER/NAME CHANGE  
MERGER/NAME CHANGE  
MEMORANDUM FARMOUT AGREEMENT  
LIMITED PARTIAL ASSIGNMENT (50%)  
PARTIAL ASSIGNMENT (32%)  
ASSIGNMENT  
ASSIGNMENT  
MERGER/NAME CHANGE  
SECOND AMENDMENT TO MEMORANDUM OF  
FARMOUT AGREEMENT  
  
AMENDED AND RESTATED PARTIAL ASSIGNMENT

223  
294  
425  
  
WVSOS  
WVSOS  
672  
684  
712  
717  
722  
WVSOS  
723  
  
723  
527

53

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All or part of  
03-7C-0001-0000-0000  
03-7C-0001-0001-0000  
03-7C-0001-0002-0000  
03-7C-0001-0003-0000  
03-7C-0001-0004-0000  
03-7C-0002-0000-0000  
and/or  
03-7C-0003-0000-0000

DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
DOMINION TRANSMISSION, INC.  
  
DOMINION ENERGY TRANSMISSION, INC.  
DOMINION TRANSMISSION, INC.  
CNX GAS COMPANY LLC  
NOBLE ENERGY, INC.  
DOMINION ENERGY TRANSMISSION, INC.

CNX GAS COMPANY LLC  
NOBLE ENERGY, INC.  
CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.  
  
HG ENERGY II APPALACHIA, LLC  
DOMINION ENERGY TRANSMISSION, INC.  
  
NOBLE ENERGY, INC.  
HG ENERGY II APPALACHIA, LLC  
  
HG ENERGY II APPALACHIA, LLC

MEMORANDUM FARMOUT AGREEMENT  
LIMITED PARTIAL ASSIGNMENT (50%)  
NOT LESS THAN 1/8  
SECOND AMENDMENT TO MEMORANDUM OF  
FARMOUT AGREEMENT  
MERGER/NAME CHANGE  
ASSIGNMENT  
ASSIGNMENT  
THIRD AMENDMENT TO MEMORANDUM OF  
FARMOUT AGREEMENT

672  
684  
692  
  
723  
WVSOS  
717  
722  
  
734  
558

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| 29   | FK064236                                   | 03-006C-0056-0000<br>03-006C-0056-0001<br>03-007C-0004-0000   | Q100595000 | J. L. ALLMAN, WIDOWER; AND SUSIE LESSON, WIDOW   | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8   | 220        | 336                                |
|  |  |   |            | HOPE NATURAL GAS COMPANY   | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED   | 294        | 89                                 |
|  |  |   |            | CONSOLIDATED GAS SUPPLY CORPORATION  | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT  | 425        | 127                                |
|  |  |   |            | CONSOLIDATED GAS TRANSMISSION CORPORATION  | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |   |            | CNG TRANSMISSION CORPORATION   | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |   |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT  | 672        | 154                                |
|  |  |   |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)  | 684        | 57                                 |
|  |  |   |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)  | 712        | 848                                |
|  |  |   |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717        | 1                                  |
|  |  |   |            | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722        | 139                                |
|  |  |   |            | DOMINION TRANSMISSION, INC.  | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |   |            | 37   | FK053178                                   | 03-006C-0048-0000<br>03-006C-0049-0000<br>03-006C-0051-0000<br>03-006C-0051-0001<br>03-006C-0052-0000<br>03-006C-0052-0001<br>03-006C-0055-0000 | Q100482000 | DOMINION ENERGY TRANSMISSION, INC. |
| DOMINION ENERGY TRANSMISSION, INC.                     | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT   | 723        |  |  |   |            | 527                                |
| DOMINION ENERGY TRANSMISSION, INC.                     | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT   | 42         |  |  |   |            | 91                                 |
| SUSAN R. HALL, J. W. HALL, ALDA J. HALL, AND MARY HALL | SOUTH PENN OIL COMPANY                     | NOT LESS THAN 1/8   | 85         |  |  |   |            | 127                                |
| SOUTH PENN OIL COMPANY                                 | HOPE NATURAL GAS COMPANY                   | ASSIGNMENT  | 79         |  |  |   |            | 370                                |
| HOPE NATURAL GAS COMPANY                               | RESERVE GAS COMPANY                        | ASSIGNMENT  | 155        |  |  |   |            | 202                                |
| RESERVE GAS COMPANY                                    | HOPE NATURAL GAS COMPANY                   | ASSIGNMENT  | 294        |  |  |   |            | 89                                 |
| HOPE NATURAL GAS COMPANY                               | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED   | 425        |  |  |   |            | 127                                |
| CONSOLIDATED GAS SUPPLY CORPORATION                    | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT  | WVSOS      |  |  |   |            |                                    |
| CONSOLIDATED GAS TRANSMISSION CORPORATION              | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE  | WVSOS      |  |  |   |            |                                    |
| CNG TRANSMISSION CORPORATION                           | DOMINION TRANSMISSION, INC.                | MEMORANDUM FARMOUT AGREEMENT  | 672        |  |  |   |            | 154                                |
| DOMINION TRANSMISSION, INC.                            | CNX GAS COMPANY LLC                        | LIMITED PARTIAL ASSIGNMENT (50%)  | 684        |  |  |   |            | 57                                 |
| CNX GAS COMPANY LLC                                    | NOBLE ENERGY, INC.                         | PARTIAL ASSIGNMENT (32%)  | 712        | 848  |  |   |            |                                    |
| DOMINION TRANSMISSION, INC.                            | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | ASSIGNMENT  | 717        | 1  |  |   |            |                                    |
| CNX GAS COMPANY LLC                                    | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 722        | 139  |  |   |            |                                    |
| NOBLE ENERGY, INC.                                     | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | WVSOS      |  |  |   |            |                                    |
| DOMINION TRANSMISSION, INC.                            | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE  | WVSOS      |  |  |   |            |                                    |
| 32   | FK068039                                   | 03-007C-0001-0001<br>03-007C-0001-0002<br>03-007C-0001-0003<br>03-007C-0001-0004<br>03-007C-0002-0000<br>03-007C-0003-0000<br>p/o 03-007C-0001-0000 | Q101065000 | 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               | AMENDED AND RESTATED PARTIAL ASSIGNMENT   | 723        | 527                                |
|  |  |   |            | 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  | 736        | 220                                |
|  |  |   |            | J. L. ALLMAN, WIDOWER; T. E. CAYTON, JR. AND NORMA JEAN CAYTON, EACH IN IS OWN RIGHT AND AS HUSBAND AND WIFE | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8   | 252        | 474                                |
|  |  |   |            | HOPE NATURAL GAS COMPANY   | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED   | 294        | 89                                 |
|  |  |   |            | CONSOLIDATED GAS SUPPLY CORPORATION  | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT  | 425        | 127                                |
|  |  |   |            | CONSOLIDATED GAS TRANSMISSION CORPORATION  | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |   |            | CNG TRANSMISSION CORPORATION   | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |   |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT  | 672        | 154                                |
|  |  |   |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)  | 684        | 57                                 |
|  |  |   |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)  | 712        | 848                                |
| CNX GAS COMPANY LLC                                    | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717        | 1  |  |   |            |                                    |
| NOBLE ENERGY, INC.                                     | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722        | 139  |  |   |            |                                    |
| DOMINION TRANSMISSION, INC.                            | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE  | WVSOS      |  |  |   |            |                                    |
| 03-007C-0005-0000                                      |  |   |            | DOMINION ENERGY TRANSMISSION, INC.   | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT   | 723        | 527                                |
|  |  |   |            | 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  | 736        | 220                                |
|  |  |   |            | MIKE ROSS, INC.  | CNX GAS COMPANY LLC                        | NOT LESS THAN 1/8   | 683        | 665                                |

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| 28   | FK064072                                   | 03-007C-0005-0001<br>03-007C-0005-0002<br>03-007C-0005-0003<br>03-007C-0005-0004 (NOW 03-006C-0057-0000)   | Q143838000 | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717        | 1                                  |
|  |  |  |            | NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 727        | 765                                |
|  |  |  |            | G. C. SMITH, WIDOWER  | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8   | 215        | 512                                |
| 12   | FK062782                                   | 03-007C-0006-0000<br>03-007C-0030-0005<br>03-007C-0033-0000<br>p/o 03-007C-0006-0003<br>p/o 03-007C-0006-0001  | Q100694000 | HOPE NATURAL GAS COMPANY  | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED   | 294        | 89                                 |
|  |  |  |            | CONSOLIDATED GAS SUPPLY CORPORATION   | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT  | 425        | 127                                |
|  |  |  |            | CONSOLIDATED GAS TRANSMISSION CORPORATION   | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |  |            | CNG TRANSMISSION CORPORATION  | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |  |            | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT  | 672        | 154                                |
|  |  |  |            | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)  | 684        | 57                                 |
|  |  |  |            | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)  | 712        | 848                                |
|  |  |  |            | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717        | 1                                  |
|  |  |  |            | NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722        | 139                                |
|  |  |  |            | DOMINION TRANSMISSION, INC.   | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE  | WVSOS      |                                    |
|  |  |  |            | DOMINION ENERGY TRANSMISSION, INC.  | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT   | 723        | 527                                |
|  |  |  |            | 39  | FK053268                                   | 03-007C-0006-0002<br>p/o 03-007C-0006-0001<br>p/o 03-007C-0006-0003<br>p/o 03-007C-0030-0000<br>p/o 03-007C-0031-0000 | Q100769000 | DOMINION ENERGY TRANSMISSION, INC. |
| DOMINION ENERGY TRANSMISSION, INC.                           | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT  | 723        |   |  |   |            | 527                                |
| 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   | 736        |   |  |   |            | 220                                |
| CYRUS W. SMITH (A/K/A C. W. SMITH) AND D. A. SMITH, HIS WIFE | RESERVE GAS COMPANY                        | NOT LESS THAN 1/8  | 68         |   |  |   |            | 522                                |
| 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      |   |  |   |            |                                    |
| DOMINION TRANSMISSION, INC.                                  | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT   | 672        |   |  |   |            | 154                                |
| CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)   | 684        |   |  |   |            | 57                                 |
| DOMINION TRANSMISSION, INC.                                  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)   | 712        | 848   |  |   |            |                                    |
| CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | ASSIGNMENT   | 717        | 1   |  |   |            |                                    |
| NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   | 722        | 139   |  |   |            |                                    |
| 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   |  |   |            |                                    |
| 11   | FK053270                                   | 03-006C-0045-0000<br>03-006C-0046-0000<br>03-006C-0053-0000<br>03-006C-0054-0000<br>03-007C-0007-0000<br>p/o 03-006C-0043-0000<br>p/o 03-006C-0043-0001<br>p/o 03-006C-0047-0000 | Q100675000 | DOMINION ENERGY TRANSMISSION, INC.  | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT   | 723        | 527                                |
|  |  |  |            | DOMINION ENERGY TRANSMISSION, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 723        | 527                                |
|  |  |  |            | DOMINION ENERGY TRANSMISSION, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722        | 139                                |
|  |  |  |            | 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               | AMENDED AND RESTATED PARTIAL ASSIGNMENT   | 723        | 527                                |
|  |  |  |            | W. D. HITT AND ALDA HITT, HIS WIFE; J. C. HITT AND DORA HITT, HIS WIFE; L.A. MCCARTY AND F. R. MCCARTY, HER HUSBAND; GEORGE W. NEELY AND GRACE M. NEELY, HIS WIFE | RESERVE GAS COMPANY                        | NOT LESS THAN 1/8   | 68         | 524                                |
|  |  |  |            | 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      |                                    |
| DOMINION TRANSMISSION, INC.                                  | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT   | 672        | 154   |  |   |            |                                    |
| CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)   | 684        | 57  |  |   |            |                                    |
| DOMINION TRANSMISSION, INC.                                  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)   | 712        | 848   |  |   |            |                                    |
| CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | ASSIGNMENT   | 717        | 1   |  |   |            |                                    |
| NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   | 722        | 139   |  |   |            |                                    |
| 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               | AMENDED AND RESTATED PARTIAL ASSIGNMENT  | 723        | 527   |  |   |            |                                    |



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|   |  |  |            |  |   |  |                   |                    |                        |
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| 38  | FK061777                                   | 03-0007C-0009-000  | Q100690000 | C. BURKE MORRIS AND CHRISTINE H. MORRIS, HIS WIFE; AND MRS. DANIEL HEEFNER (ALSO KNOWN AS MABEL SMITH HEEFNER) AND DANIEL HEEFNER, HER HUSBAND | HOPE NATURAL GAS COMPANY                      | NOT LESS THAN 1/8  | 209               | 444                |                        |
|   |  |  |            | HOPE NATURAL GAS COMPANY   | CONSOLIDATED GAS SUPPLY CORPORATION           | CONFIRMATORY DEED  | 294               | 89                 |                        |
|   |  |  |            | CONSOLIDATED GAS SUPPLY CORPORATION  | CONSOLIDATED GAS TRANSMISSION CORPORATION     | ASSIGNMENT   | 425               | 127                |                        |
|   |  |  |            | CONSOLIDATED GAS TRANSMISSION CORPORATION  | CNG TRANSMISSION CORPORATION                  | MERGER/NAME CHANGE   | WVSOS             |                    |                        |
|   |  |  |            | CNG TRANSMISSION CORPORATION   | DOMINION TRANSMISSION, INC.                   | MERGER/NAME CHANGE   | WVSOS             |                    |                        |
|   |  |  |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                           | MEMORANDUM FARMOUT AGREEMENT   | 672               | 154                |                        |
|   |  |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                            | LIMITED PARTIAL ASSIGNMENT (50%)   | 684               | 57                 |                        |
|   |  |  |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.    | PARTIAL ASSIGNMENT (32%)   | 712               | 848                |                        |
|   |  |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                            | ASSIGNMENT   | 717               | 1                  |                        |
|   |  |  |            | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC                  | ASSIGNMENT   | 722               | 139                |                        |
|   |  |  |            | 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                  | AMENDED AND RESTATED PARTIAL ASSIGNMENT  | 723               | 527                |                        |
|   |  |  |            | DOMINION ENERGY TRANSMISSION, INC.   | HG ENERGY II APPALACHIA, LLC                  | THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT   | 734               | 558                |                        |
|   |  |  |            | 18   | FK053193                                      | 03-07C-0029-0000<br>03-07C-0030-0001<br>03-07C-0030-0002<br>03-07C-0030-0003<br>03-07C-0030-0004<br>03-07C-0030-0006<br>03-07C-0030-0007<br>03-07C-0030-0008<br>03-07C-0030-0009<br>03-07C-0030-0010<br>03-07C-0034-0000<br>03-07C-0037-0000<br>03-07C-0038-0000 | Q101025000        | D. CORDELIA BAILEY | SOUTH PENN OIL COMPANY |
| SOUTH PENN OIL COMPANY                    | HOPE NATURAL GAS COMPANY                   | ASSIGNMENT   | 85         |  |   |  |                   | 127                |                        |
| HOPE NATURAL GAS COMPANY                  | RESERVE GAS COMPANY                        | ASSIGNMENT   | 79         |  |   |  |                   | 370                |                        |
| 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      |  |   |  |                   |                    |                        |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT   | 672        |  |   |  |                   | 154                |                        |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)   | 684        |  |   |  |                   | 57                 |                        |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)   | 712        |  |   |  |                   | 848                |                        |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | ASSIGNMENT   | 717        |  |   |  |                   | 1                  |                        |
| NOBLE ENERGY, INC.                        | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   | 722        |  |   |  |                   | 139                |                        |
| 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               | AMENDED AND RESTATED PARTIAL ASSIGNMENT  | 723        | 527  |   |  |                   |                    |                        |
| 23  | FK061778                                   | 03-07C-0008-0000<br>p/o 03-07C-0026-0001<br>p/o 03-07C-0026-0000<br>03-07C-0027-0000<br>03-07C-0029-0001<br>03-07C-0039-0000<br>03-07C-0040-0000 | Q100355000 | C. BURKE MORRIS AND CHRISTINE MORRIS, HIS WIFE; MRS. DANIEL HEEFNER AND DANIEL HEEFNER, HER HUSBAND  | HOPE NATURAL GAS COMPANY                      | NOT LESS THAN 1/8  | 209               | 451                |                        |
|   |  |  |            | HOPE NATURAL GAS COMPANY   | CONSOLIDATED GAS SUPPLY CORPORATION           | CONFIRMATORY DEED  | 294               | 89                 |                        |
|   |  |  |            | CONSOLIDATED GAS SUPPLY CORPORATION  | CONSOLIDATED GAS TRANSMISSION CORPORATION     | ASSIGNMENT   | 425               | 127                |                        |
|   |  |  |            | CONSOLIDATED GAS TRANSMISSION CORPORATION  | CNG TRANSMISSION CORPORATION                  | MERGER/NAME CHANGE   | WVSOS             |                    |                        |
|   |  |  |            | CNG TRANSMISSION CORPORATION   | DOMINION TRANSMISSION, INC.                   | MERGER/NAME CHANGE   | WVSOS             |                    |                        |
|   |  |  |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                           | MEMORANDUM FARMOUT AGREEMENT   | 672               | 154                |                        |
|   |  |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                            | LIMITED PARTIAL ASSIGNMENT (50%)   | 684               | 57                 |                        |
|   |  |  |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.    | PARTIAL ASSIGNMENT (32%)   | 712               | 848                |                        |
|   |  |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                            | ASSIGNMENT   | 717               | 1                  |                        |
|   |  |  |            | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC                  | ASSIGNMENT   | 722               | 139                |                        |
|   |  |  |            | DOMINION TRANSMISSION, INC.  | DOMINION ENERGY TRANSMISSION, INC.            | MERGER/NAME CHANGE   | WVSOS             |                    |                        |
|   |  |  |            | DOMINION ENERGY TRANSMISSION, INC.   | HG ENERGY II APPALACHIA, LLC                  | AMENDED AND RESTATED PARTIAL ASSIGNMENT  | 723               | 527                |                        |
|   |  |  |            | DOMINION ENERGY TRANSMISSION, INC.   | HG ENERGY II APPALACHIA, LLC                  | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  | 723               | 499                |                        |
|   |  |  |            |  | BERTHA H. NAY, WIDOW; AND ETHEL V. LAW, WIDOW | HOPE NATURAL GAS COMPANY   | NOT LESS THAN 1/8 | 209                | 422                    |
|   |  |  |            |  | HOPE NATURAL GAS COMPANY                      | CONSOLIDATED GAS SUPPLY CORPORATION  | CONFIRMATORY DEED | 294                | 89                     |
|   | CONSOLIDATED GAS SUPPLY CORPORATION        | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT | 425  | 127   |  |                   |                    |                        |

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03-7C-0020-0001  
03-7C-0020-0002  
03-7C-0021-0000  
03-7C-0022-0000  
03-7C-0022-0001  
03-7C-0022-0002

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|---|--|---|-------|-----|
| CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE  | WVSOS |     |
| CNG TRANSMISSION CORPORATION              | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE  | WVSOS |     |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT  | 672   | 154 |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)  | 684   | 57  |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)  | 712   | 848 |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 717   | 1   |
| NOBLE ENERGY, INC.                        | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 722   | 139 |
| DOMINION TRANSMISSION, INC.               | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE  | WVSOS |     |
| DOMINION ENERGY TRANSMISSION, INC.        | HG ENERGY II APPALACHIA, LLC               | AMENDED AND RESTATED PARTIAL ASSIGNMENT<br>SECOND AMENDMENT TO MEMORANDUM OF<br>FARMOUT AGREEMENT | 723   | 527 |
| DOMINION ENERGY TRANSMISSION, INC.        | HG ENERGY II APPALACHIA, LLC               |   | 723   | 499 |

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|---|--|---|--|---|--|--|--------------------------|---|--------------------------|-------------------|--|-----|-----|
| 5   | FK066900                                     | 03-007C-0010-000  | Q100314000   | C. BURKE MORRIS AND CHRISTINE H. MORRIS, HIS WIFE; AND MABEL S. HEEFNER, WIDOW  | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8  |                          | 244   | 374                      |                   |  |     |     |
|   |  |   |  | HOPE NATURAL GAS COMPANY  | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED  |                          | 294   | 89                       |                   |  |     |     |
|   |  |   |  | CONSOLIDATED GAS SUPPLY CORPORATION   | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT   |                          | 425   | 127                      |                   |  |     |     |
|   |  |   |  | CONSOLIDATED GAS TRANSMISSION CORPORATION   | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE   | WVSOS                    |   |                          |                   |  |     |     |
|   |  |   |  | CNG TRANSMISSION CORPORATION  | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE   | WVSOS                    |   |                          |                   |  |     |     |
|   |  |   |  | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT   |                          | 672   | 154                      |                   |  |     |     |
|   |  |   |  | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)   |                          | 684   | 57                       |                   |  |     |     |
|   |  |   |  | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)   |                          | 712   | 848                      |                   |  |     |     |
|   |  |   |  | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT   |                          | 717   | 1                        |                   |  |     |     |
|   |  |   |  | NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   |                          | 722   | 139                      |                   |  |     |     |
|   |  |   |  | DOMINION TRANSMISSION, INC.   | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE   | WVSOS                    |   |                          |                   |  |     |     |
|   |  |   |  |   |  | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  |                          | 723   | 499                      |                   |  |     |     |
|   |  |   |  |   |  |  |                          |   |                          |                   |  |     |     |
|   |  |   |  |   |  | AMENDED AND RESTATED PARTIAL ASSIGNMENT  |                          | 723   | 527                      |                   |  |     |     |
|   |  |   |  |   |  |  |                          |   |                          |                   |  |     |     |
|   |  |   |  |   |  | THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT   |                          | 734   | 558                      |                   |  |     |     |
|   |  |   |  |   |  | ASSIGNMENT (68%)   |                          | 736   | 220                      |                   |  |     |     |
|   |  |   |  |   |  |  |                          |   |                          |                   |  |     |     |
|   |  |   |  | 7   | FK063153                                   | 03-007C-0011-0000<br>03-007C-0011-0001<br>03-007C-0012-0000<br>03-07C-0013-0000<br>p/o 03-007C-0014-0000<br>03-007C-0017-0000<br>03-007C-0018-0000<br>p/o 03-007C-0019 | Q100397000<br>Q101047000 | W. A. CHITTUM AND ZURA F. CHITTUM, HIS WIFE   | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 |  | 217 | 419 |
|   |  |   |  |   |  |  |                          | H. L. CHITTUM AND JEWEL E. CHITTUM, HIS WIFE  | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 |  | 217 | 422 |
| HOPE NATURAL GAS COMPANY                  | CONSOLIDATED GAS SUPPLY CORPORATION          | CONFIRMATORY DEED   |  |   |  |  |                          | 294   | 89                       |                   |  |     |     |
| CONSOLIDATED GAS SUPPLY CORPORATION       | CONSOLIDATED GAS TRANSMISSION CORPORATION    | ASSIGNMENT  |  |   |  |  |                          | 425   | 127                      |                   |  |     |     |
| CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION                 | MERGER/NAME CHANGE  | WVSOS  |   |  |  |                          |   |                          |                   |  |     |     |
| CNG TRANSMISSION CORPORATION              | DOMINION TRANSMISSION, INC.                  | MERGER/NAME CHANGE  | WVSOS  |   |  |  |                          |   |                          |                   |  |     |     |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC                          | MEMORANDUM FARMOUT AGREEMENT  |  |   |  |  |                          | 672   | 154                      |                   |  |     |     |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                           | LIMITED PARTIAL ASSIGNMENT (50%)  |  |   |  |  |                          | 684   | 57                       |                   |  |     |     |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.   | PARTIAL ASSIGNMENT (32%)  |  |   |  |  |                          | 712   | 848                      |                   |  |     |     |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                           | ASSIGNMENT  |  |   |  |  |                          | 717   | 1                        |                   |  |     |     |
| NOBLE ENERGY, INC.                        | HG ENERGY II APPALACHIA, LLC                 | ASSIGNMENT  |  |   |  |  |                          | 722   | 139                      |                   |  |     |     |
| DOMINION TRANSMISSION, INC.               | DOMINION ENERGY TRANSMISSION, INC.           | MERGER/NAME CHANGE  | WVSOS  |   |  |  |                          |   |                          |                   |  |     |     |
|   |  | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT   |  |   |  |  |                          | 723   | 499                      |                   |  |     |     |
|   |  |   |  |   |  |  |                          |   |                          |                   |  |     |     |
|   |  | AMENDED AND RESTATED PARTIAL ASSIGNMENT   |  |   |  |  |                          | 723   | 527                      |                   |  |     |     |
| 6   | FK076091<br>FK085756<br>FK065843<br>FK065819 | 04-07C-0001-0000<br>04-07C-0002-0000<br>04-07D-0001-0000<br>04-07D-0002-0000<br>04-07D-0003-0000<br>04-07D-0014-0000<br>04-07D-0015-0000<br>04-07D-00016-0000<br>04-07D-0017-0000<br>04-07D-0018-0000<br>04-07D-0019-0000<br>04-07D-0021-0000<br>04-07D-0060-0000 (formerly<br>04-07C-0004-0000)<br>04-07D-0061-0000 (formerly<br>04-07C-0003-0000) | Q100317000<br>Q100561000<br>Q100985000<br>Q100612000 |   |  |  |                          | GLADYS HAYS, WIDOW; LOVANT HAYS AND RAMONA HAYS, HIS WIFE; AND DAVID HAYS AND ELNORA HAYS, HIS WIFE | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 |  | 233 | 270 |
|   |  |   |  | JULIET P. BUTCHER AND WILLIAM E. BUTCHER, HER HUSBAND; AND ALTHEA J. RANDOLPH, WIDOW  | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8  |                          | 233   | 458                      |                   |  |     |     |
|   |  |   |  | HOPE NATURAL GAS COMPANY  | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED  |                          | 294   | 89                       |                   |  |     |     |
|   |  |   |  | OLGA M. SMITH, WIDOW; RUTH MARY SMITH, SINGLE; AUBREY E. SMITH AND SHELBA J. SMITH, HIS WIFE; EARL H. SMITH AND GERALDINE SMITH, HIS WIFE, ILENE KEITH AND JOHN M. KEITH, HER HUSBAND; AND WILLARD F. SMITH AND FRED A. SMITH, HIS WIFE | CONSOLIDATED GAS SUPPLY CORPORATION        | NOT LESS THAN 1/8  |                          | 300   | 116                      |                   |  |     |     |
|   |  |   |  | MARY E. CLARK AND MASON D. CLARK, HER HUSBAND   | CONSOLIDATED GAS SUPPLY CORPORATION        | NOT LESS THAN 1/8  |                          | 341   | 264                      |                   |  |     |     |
|   |  |   |  | CONSOLIDATED GAS SUPPLY CORPORATION   | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT   |                          | 425   | 127                      |                   |  |     |     |
|   |  |   |  | CONSOLIDATED GAS TRANSMISSION CORPORATION   | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE   | WVSOS                    |   |                          |                   |  |     |     |
|   |  |   |  | CNG TRANSMISSION CORPORATION  | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE   | WVSOS                    |   |                          |                   |  |     |     |
|   |  |   |  | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT   |                          | 672   | 154                      |                   |  |     |     |
|   |  |   |  | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)   |                          | 684   | 57                       |                   |  |     |     |
|   |  |   |  | DOMINION TRANSMISSION, INC.   | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)   |                          | 712   | 848                      |                   |  |     |     |
|   |  |   |  | CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT   |                          | 717   | 1                        |                   |  |     |     |
|   |  |   |  | NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   |                          | 722   | 139                      |                   |  |     |     |
|   |  |   |  | DOMINION TRANSMISSION, INC.   | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE   | WVSOS                    |   |                          |                   |  |     |     |
|   |  |   |  |   |  |  |                          |   |                          |                   |  |     |     |
|   |  |   |  |   |  | AMENDED AND RESTATED PARTIAL ASSIGNMENT  |                          | 723   | 527                      |                   |  |     |     |

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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  |  | 736   | 220 |
| 34                 | FK062268                     | 03-007C-0016-0000                      | Q100938000 | CHARLES F. BAILEY AND MARY JANE BAILEY, HIS WIFE; AND DAYTON D. REXROAD AND ROXIE E. REXROAD, HIS WIFE   | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8                                   |  | 212   | 308 |
|                    |                              |  |            | HOPE NATURAL GAS COMPANY   | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED                                   |  | 294   | 89  |
|                    |                              |  |            | CONSOLIDATED GAS SUPPLY CORPORATION  | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT  |  | 425   | 127 |
|                    |                              |  |            | CONSOLIDATED GAS TRANSMISSION CORPORATION  | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE                                  |  | WVSOS |     |
|                    |                              |  |            | CNG TRANSMISSION CORPORATION   | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE                                  |  | WVSOS |     |
|                    |                              |  |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT                        |  | 672   | 154 |
|                    |                              |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)                    |  | 684   | 57  |
|                    |                              |  |            | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)                            |  | 712   | 848 |
|                    |                              |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | ASSIGNMENT  |  | 717   | 1   |
|                    |                              |  |            | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  |  | 722   | 139 |
|                    |                              |  |            | 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  |  | 736   | 220 |
| 1                  |                              | 04-007D-0013-0000<br>04-007D-0004-0000 | CNX052827  | NANCY E. HAYS, GUARDIAN OF JULIET P. HAYS, INFANT DAUGHTER OF DAVID J. HAYS, DECEASED  | RESERVE GAS COMPANY                        | NOT LESS THAN 1/8                                   |  | 52    | 217 |
|                    |                              |  |            | 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 |     |
|                    |                              |  |            | DOMINION TRANSMISSION, INC.  | CONSOL ENERGY HOLDINGS, LLC, XVI           | ASSIGNMENT  |  | 651   | 318 |
|                    |                              |  |            | CONSOL ENERGY HOLDINGS XVI   | CONSOL GAS COMPANY                         | MERGER/NAME CHANGE                                  |  | WVSOS |     |
|                    |                              |  |            | CONSOL GAS COMPANY   | CNX GAS COMPANY LLC                        | MERGER/NAME CHANGE                                  |  | WVSOS |     |
|                    |                              |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)                    |  | 659   | 521 |
|                    |                              |  |            | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | ASSIGNMENT  |  | 717   | 1   |
| NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT                             |            | 722  | 170  |   |  |       |     |
|                    |                              |  |            | PRUDENCE M. O'HARA AND C. A. O'HARA, HER HUSBAND, MATTHEW EDMISTON, JR. AND MILDRED EDMISTON, HIS WIFE, GEORGE B. EDMISTON, M. D. AND BEATRICE EDMISTON, HIS WIFE, VIRGINIA C. SANCHEZ AND FRANK SANCHEZ, HER HUSBAND, ELIZABETH E. BLAND AND JOSEPH H. BLAND, HER HUSBAND, JOHN M. EDMISTON AND EMILIE M. EDMISTON, HIS WIFE, ANDREW EDMISTON AND MARY ALICE EDMISTON, HIS WIFE, ANDREW EDMISTON AND BETH GAGE EDMISTON, HIS WIFE | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8 (386 AC)                          |  | 289   | 230 |
|                    |                              |  |            | MATTHEW EDMISTON, JR. AND MILDRED EDMISTON, HIS WIFE, AND MATTHEW EDMISTON, JR. ATTORNEY-IN-FACT FOR BEATRICE EDMISTON (WIDOW OF GEORGE B. EDMISTON), ELIZABETH E. BLAND & JOSEPH BLAND, HER HUSBAND, JOHN M. EDMISTON & EMILY EDMISTON, HIS WIFE, ANDREW J. EDMISTON & MARY ALICE EDMISTON, HIS WIFE  | JAMES F. SCOTT AND SCOTT OIL & GAS COMPANY | NOT LESS THAN 1/8 (21 AC)                           |  | 383   | 580 |
|                    |                              |  |            | BETH GAGE EDMISTON (WIDOW)   | JAMES F. SCOTT AND SCOTT OIL & GAS COMPANY | NOT LESS THAN 1/8 (21 AC)                           |  | 383   | 584 |
|                    |                              |  |            | CATHERINE C. CRAIG (WIDOW)   | JAMES F. SCOTT AND SCOTT OIL & GAS COMPANY | NOT LESS THAN 1/8 (21 AC)                           |  | 383   | 586 |
|                    |                              |  |            | PHILIP L. JONES & MARY SUE JONES, HIS WIFE, MINTIE C. HALE & WILLIAM K. HALE, HER HUSBAND, AND ELIZABETH A. MCCORMICK & PETER MCCORMICK, HER HUSBAND (HEIRS OF VIRGINIA C. MITCHEM)  | JAMES F. SCOTT AND SCOTT OIL & GAS COMPANY | NOT LESS THAN 1/8 (21 AC)                           |  | 383   | 582 |
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| A. EDWARD O'HARA AND JEANNE O'HARA, HIS WIFE  | JAMES F. SCOTT AND SCOTT OIL & GAS COMPANY | NOT LESS THAN 1/8 (21 AC)        | 384   | 433 |
| HOPE NATURAL GAS COMPANY  | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED                | 294   | 89  |
| JAMES F. SCOTT AND JEAN H. SCOTT, HIS WIFE  | CONVEST 1980-II ENERGY INCOME PROGRAM      | ASSIGNMENT                       | 397   | 60  |
| CONVEST 1980-II ENERGY INCOME PROGRAM   | CONVEST PRODUCTION COMPANY                 | ASSIGNMENT                       | 439   | 639 |
| JAMES F. SCOTT, UNMARRIED, SCOTT OIL AND GAS COMPANY, INC.,<br>CONVEST ENERGY CORPORATION, CONVEST 1980-II ENERGY INCOME<br>PROGRAM, CONVEST 1982-B INCOME PROGRAM, CONVEST 1982-C<br>INCOME PROGRAM, CONVEST INCOME PROGRAM VII, ALSO KNOWN<br>AS CONVEST INCOME PROGRAM VII-A | CONVEST PRODUCTION COMPANY                 | ASSIGNMENT                       | 460   | 383 |
| CONVEST PRODUCTION COMPANY  | BNG, INC                                   | ASSIGNMENT                       | 460   | 494 |
| CONSOLIDATED GAS SUPPLY CORPORATION   | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT                       | 425   | 127 |
| CONSOLIDATED GAS TRANSMISSION CORPORATION   | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE               | WVSOS |     |
| CNG TRANSMISSION CORPORATION  | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE               | 9     | 628 |
| BNG, INC  | STONEWALL GAS COMPANY                      | ASSIGNMENT                       | 522   | 341 |
| STONEWALL GAS COMPANY   | DOMINION APPALACHIAN DEVELOPMENT, INC      | MERGER/NAME CHANGE               | WVSOS |     |
| DOMINION APPALACHIAN DEVELOPMENT, INC   | DOMINION APPALACHIAN DEVELOPMENT, LLC      | MERGER/NAME CHANGE               | 10    | 38  |
| DOMINION APPALACHIAN DEVELOPMENT, LLC   | CONSOL GAS APPALACHIAN DEVELOPMENT, LLC    | MERGER/NAME CHANGE               | 9     | 471 |
| CONSOL GAS APPALACHIAN DEVELOPMENT, LLC   | CONSOL GAS RESERVES                        | MERGER/NAME CHANGE               | 9     | 471 |
| CONSOL GAS RESERVES   | CONSOL GAS COMPANY                         | MERGER/NAME CHANGE               | 9     | 471 |
| CONSOL GAS COMPANY  | CNX GAS COMPANY LLC                        | MERGER/NAME CHANGE               | 9     | 471 |
| CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%) | 659   | 521 |
| CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%) | 659   | 662 |
| CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT                       | 717   | 1   |
| NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT                       | 722   | 139 |
| NOBLE ENERGY, INC.  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT                       | 722   | 170 |
| A. W. WOODFORD AND SABRA WOODFORD   | J. S. GLENN                                | NOT LESS THAN 1/8                | 30    | 545 |
| J. S. GLENN   | THEODORE N. BARNSDALL                      | ASSIGNMENT                       | 52    | 235 |
| T. N. BARNSDALL, AND OTHERS   | 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               | 9     | 628 |
| DOMINION TRANSMISSION, INC.   | CONSOL ENERGY HOLDINGS LLC XVI             | ASSIGNMENT                       | 651   | 318 |
| CONSOL ENERGY HOLDINGS LLC XVI  | CONSOL GAS COMPANY                         | MERGER/NAME CHANGE               | 9     | 471 |
| CONSOL GAS COMPANY  | CNX GAS COMPANY LLC                        | MERGER/NAME CHANGE               | 9     | 471 |
| CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%) | 659   | 521 |
| CNX GAS COMPANY LLC   | NOBLE ENERGY, INC.                         | ASSIGNMENT                       | 717   | 1   |
| NOBLE ENERGY,<br>INC.+E347:E382D396E363:E382E339:E382D396E363:E382E322:EE363:E  | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT                       | 722   | 170 |
| TAWANA BUTCHER AND BURTON B. BUTCHER, HER HUSBAND,<br>THOMAS M. BUTCHER, SINGLE, AND BARBARA E. BUTCHER, SINGLE   | SCOTT OIL COMPANY                          | NOT LESS THAN 1/8                | 459   | 541 |
| PATRICIA T. GARTON  | SCOTT OIL COMPANY                          | NOT LESS THAN 1/8                | 459   | 543 |
| ELIZABETH MAXWELL, WIDOW  | SCOTT OIL COMPANY                          | NOT LESS THAN 1/8                | 460   | 311 |
| SCOTT OIL COMPANY   | DOMINION ENERGY, INC.                      | ASSIGNMENT                       | 468   | 592 |
| DOMINION ENERGY, INC.   | Dominion Reserves, Inc.                    |                                  | 472   | 281 |
| Dominion Reserves, Inc.   | CONSOL Gas Reserves Inc.                   | NAME CHANGE                      | WVSOS |     |
| CONSOL Gas Reserves Inc.  | CONSOL Gas Company                         | MERGER/NAME CHANGE               | WVSOS |     |
| CONSOL Gas Company  | CNX Gas Company LLC                        | MERGER/NAME CHANGE               | WVSOS |     |

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|    |           |                       |  | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.           | LIMITED PARTIAL ASSIGNMENT (50%) | 659 | 521 |
|    |           |                       |  | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.           | ASSIGNMENT                       | 717 | 1   |
|    |           |                       |  | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT                       | 722 | 170 |
| 61 | N/A       | WEST FORK RIVER       | HGII01229  | WEST VIRGINIA DNR  | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 762 | 495 |
| 59 | N/A       | p/o 03-007D-0032-0000 | N/A  | WEST VIRGINIA UNIVERSITY BOARD OF GOVERNORS                                | HG ENERGY II APPALACHIA, LLC | NOTICE OF AGREEMENT              | 767 | 472 |
|    |           |                       |  | Thomas Scott Hoffman   | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 758 | 345 |
|    |           |                       |  | William Henry Lively, Jr.  | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 750 | 761 |
|    |           |                       |  | Sidney Davis Lively  | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 750 | 566 |
|    |           |                       |  | Anne Lively NKA Anne L. Nixon  | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 750 | 757 |
|    |           |                       |  | Alicia Brannon Smith<br>with Karen Cather Helms acting as Attorney In Fact | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 762 | 27  |
| 3  | 268577000 | p/o 3-7D-32           | HGII0887, HGII0886,<br>HGII01036, HGII01211,<br>HGII01171, HGII01193 | Kenneth R. Kurtz   | HG ENERGY II APPALACHIA, LLC | MINERAL DEED                     | 734 | 399 |
|    |           |                       |  | Laura K. Kurtz   | HG ENERGY II APPALACHIA, LLC | MINERAL DEED                     | 734 | 410 |
|    |           |                       |  | Standard Land Co, LLC  | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 762 | 732 |
|    |           |                       |  | EIGG Land Limited  | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 762 | 252 |
|    |           |                       |  | Joseph D. Cartrell   | HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8                | 762 | 248 |

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