

west virginia department of environmental protection

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

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

Thursday, January 20, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit approval for BURNSIDE 1214 S-5H

47-041-05727-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing easing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: BURNSIDE 1214 S-5H

Farm Name: JOHN K BURNSIDE ET AL

U.S. WELL NUMBER: 47-041-05727-00-00

Date Issued: 1/20/2022

Horizontal 6A New Drill

| API Number: | |
|-------------|--|
|-------------|--|

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

| CO | NI | TTI | S | 2 |
|----|----|-----|---|----|
| | ND | | | ъ. |

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
 (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
 activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

| API Number: | |
|-------------|--|
| | |

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

| API NO. 47 | |
|-----------------------|--------------------|
| OPERATOR WELL NO. | Burnside 1214 S-5H |
| Well Pad Name: Burnsi | de 1214 |

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 | Camden 7.5' |
|---|---|--------------------|-------------------------------------|--------------|--------------------|
| | | Operator ID | County | District | Quadrangle |
| 2) Operator's Well Number: Bu | rnside 1214 S-5H | Well Pa | ad Name: Burn | nside 1214 | - |
| 3) Farm Name/Surface Owner: | John K Burnside, | et al Public Ro | ad Access: N | lare Run Rd | at CR 10/9 |
| 4) Elevation, current ground: | 1160' Ele | vation, proposed | l post-construc | tion: 1159.2 | 0' |
| 5) Well Type (a) Gas x Other | Oil | ·Uno | lerground Stor | age | |
| , , | illow X | Deep | | | 50W 12/8/2021 |
| 6) Existing Pad: Yes or No No | | | | | 12/8/2021 |
| 7) Proposed Target Formation(s Marcellus at 6685'/6767' and 8 | | | Control of the second of the second | Pressure(s): | |
| 8) Proposed Total Vertical Dept | n: 6693' | | | | |
| 9) Formation at Total Vertical D | epth: Marcellus | | | | |
| 10) Proposed Total Measured D | epth: 27,481' | | | | |
| 11) Proposed Horizontal Leg Le | ngth: 19,977' | | | | / |
| 12) Approximate Fresh Water S | rata Depths: | 803', 950' | | | 1 |
| 13) Method to Determine Fresh 14) Approximate Saltwater Dept | 3 C C C C C C C C C C C C C C C C C C C | earest offset we | ell data, (47-0 | 41-00283, 02 | 210,) |
| 15) Approximate Coal Seam De | pths: 510', 910', | 915' (Surface | casing is beir | ng extended | to cover the coal) |
| 16) Approximate Depth to Possi | ble Void (coal mir | ne, karst, other): | None | | |
| 17) Does Proposed well location directly overlying or adjacent to | | | N | o_X | |
| (a) If Yes, provide Mine Info: | Name: | | | | |
| Action of Management of the Control | Depth: | | | | |
| | Seam: | | | | |
| | Owner: | | | | |

| WW-6B | |
|---------|--|
| (04/15) | |

| API NO. 47 | | |
|----------------------|--------|--------------------|
| OPERATOR WELL | NO. | Burnside 1214 S-5H |
| Well Pad Name: | Burnsi | de 1214 |

18)

CASING AND TUBING PROGRAM

| TYPE | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|------------------|--------------|-------------------|----------|---------------------------|-------------------------------|------------------------------------|-------------------------------------|
| Conductor | 30" | New | LS | 157.5 | 120' | 120' | Drilled In |
| Fresh Water/Coal | 20" | NEW | J-55 | 94 | 1050' | 1050' | CTS |
| Intermediate 1 | 13 3/8" | NEW | J-55 BTC | 68 | 2050' | 2050' ^ | CTS |
| Intermediate 2 | 9 5/8" | NEW | J-55 BTC | 40 | 2850' | 2850' | CTS |
| Production | 5 1/2" | NEW | P-110 HP | 23 | 27481' | 27481' < | CTS |
| Tubing | | | | | | | |
| Liners | | | | | | | |

50W 12/8/2021

| TYPE | Size (in) | Wellbore Diameter (in) | <u>Wall</u> <u>Thickness</u> <u>(in)</u> | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | Cement Yield (cu. ft./k) |
|------------------|-----------|---------------------------|--|----------------------|--|-----------------|---|
| Conductor | 30" | 30" | .500 | | | | Drilled In |
| Fresh Water/Coal | 20" | 26" | .438 | 2110 | 1200 | Type 1, Class A | 40 % excess yield = 1.20, CTS |
| Intermediate 1 | 13 3/8" | 17 1/2" | .480 | 3450 | | Type 1/Class A | Load 40% exects, Toll 0% exects |
| Intermediate 2 | 9 5/8" | 12 1/4" | .395 | 3950 | | Type 1/Class A | Load 40% endess, Tell 0% Excess (co |
| Production | 5 1/2" | 8 1/2" | .415 | 16240 | 12500 | Type 1/ClassA | 20% excess years = 1.13, tartylets 1.54 c |
| Tubing | | | | | | | |
| Liners | | | | | | | , |

PACKERS

| Kind: | | |
|-------------|--|--|
| Sizes: | | |
| Depths Set: | | |

| WW-6B | |
|---------|--|
| (10/14) | |

| API NO. 47 | |
|----------------------|--------------------|
| OPERATOR WELL NO. | Burnside 1214 S-5H |
| Well Pad Name: Bumsi | de 1214 |

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 6693'. Drill horizontal leg to estimated 19,977' lateral length, 27,481' 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): 6.32 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 4.12 acres
- 23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casting. Freshwater/Coel - centralized every 3 joint so surface. Intermediate 1 - Bow Spring on every joint, will also be numing ACP for isolating storage zone Intermediate 2 - Bow Spring on shall 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 1st 5.5° long joint to the

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

Conductor -WA, Casing to be diffed in will built Rotary Rig.
Fresh WaterCoal - 15.8 ppg PNE-1 + 3.5% broc CaCl, 40% Excess Yeld = 1.20, CTS
intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% brocc CaCl, 40% Excess Yeld: 15.8 ppg PNE-1 + 2.5% brocc CaCl, 40% Excess Yeld: 15.8 ppg PNE-1 + 2.5% brocc CaCl, 40% Excess Yeld: 15.8 ppg PNE-1 + 2.5% brocc CaCl, 40% Excess, Tail: 15.8 ppg PNE-1

25) Proposed borehole conditioning procedures:

Conductor - Ensure the holds clean at TD.
Frest WeterCoal - Once cesting is at setting depth, circulate a minimum of one hole volume with Frest Weter prior to pumping cement.
Intermediate 1 - Once cesting is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate 2 - Once cesting 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 minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.

HG Energy II Appalachia, LLC Burnside 1214 Well Pad (N-1H, N-2H, N-3H, S-4H, S-5H, S-6H) Cement Additives

| Material Name | Material Type | Material Description Premium NE-1 is a | Ingredient name | % | CAS number |
|----------------|------------------|---|--|--------------------|------------------------------|
| | | portland cement with | | 90 - 100 | 65997-15-1 |
| | | early compressive | Portland cement Calcium oxide | 1 - 5 | 1305-78-8 |
| | | strength properties. | Magnesium oxide | 1 - 5 | 1309-48-4 |
| emium NE-1 | Portland Cement | an angle is a sea to the | Crystalline silica: Quartz (SiO2) | 0.1 - 1 | 14808-60-7 |
| 7-21-2-5 | | | | | |
| | | Commonly called gel, it is | Ingredient name | % | CAS number |
| | | a clay material used as a | The state of the s | 90 - 100 | 1302-78-9 |
| | | cement extender and to | bentonite Crystalline silica; Quartz (SiO2) | 5 - 10 | 14808-60-7 |
| | | control excessive free water. | | | |
| ntonite | Extender | water. | | | |
| | 2.00 | | | | |
| | | A powdered, flaked or | Francisco Francisco | % | GAS number |
| | | pelletized material used | Ingredient name | 90 - 100 | 10043-52-4 |
| | | to decrease thickening | Calcium chloride | 90 - 100 | 100-0-02-4 |
| | | time and increase the rate of strength development | | | |
| ium Chloride | Accelerator | or strength development | | | - |
| | - 0-1-10/20164 | | | | |
| | | Graded (3/8 to 3/4 inch) | Ingredient name | % | CAS number |
| | | cellophane flakes used as | No hazardous ingredient | | |
| | 1.00 | a lost circulation material. | | | |
| o Flake | Lost Circulation | | | | |
| | | | | | |
| | | FP-13L is a clear liquid | | | |
| | | organic phosphate | | | |
| | | antifoaming agent used in | 1 <u>1 </u> | | |
| | | cementing operations. It | Ingredient name | % | CAS number |
| | | is very effective | Tributyl phosphate | 90 - 100 | 126-73-8 |
| | | minimizing air | , | | |
| | | entrapment and | | | |
| | | preventing foaming | | | |
| | | tendencies of latex | | | |
| .5. | Inc. Sec. to the | systems. | | | |
| 13L | Foam Preventer | | | | |
| | | | Ingredient name | % | CAS number |
| | | Used to retard cement | Sucrose | 90 - 100 | 57-50-1 |
| anulated Sugar | Retarder | returns at surface. | 515981 | | 170.74 |
| | | A proprietary product | | | |
| | | that provides expansive | | | |
| | | properties and improves | | lar. | 010 |
| | | bonding at low to | Ingredient name | % | CAS number |
| | | moderate temperatures. | Calcium magnesium oxide | 90 - 100 | 37247-91-9 |
| -1 | | cemperatures. | | | |
| -1 | | Multi-purpose polymer | | | |
| | | additive used to control | hadron at one of the same | e. | CAS number |
| | | free fluid, fluid loss, | Ingredient name | % | CAS number |
| | | rheology, and gas | No hazardous ingredient | | |
| PA-170 | Gas Migration | migration. | | | |
| | | | | | |
| | | A synthetic pozzolan, | | | |
| | | (primarily Silicon Dioxide). | | | |
| | | When blended with | | | |
| | | cement, Pozzolan can be | Ingredient name | % | CAS number |
| | | used to create | Crystalline silica: Quartz (SiO2) | 5 - 10 | 14808-60-7 |
| | | lightweight cement slurries used as either a | Calcium oxide | 1 - 5 | 1305-78-8 |
| | | filler slurry or a sulfate | | | |
| | | resistant completion | | | |
| | | cement. | | | |
| (Fly Ash) | Base | A STATE OF | | | |
| | | | | | |
| | | A low temperature | | | |
| | | retarder used in a wide | Ingredient name | % | CAS number |
| | | range of slurry | Organic acid salt | 40 - 50 | Trade secret. |
| | | formulations to extend | 2.50 | | |
| | witten | the slurry thickening time. | | | |
| | Retarder | | | | |
| | | | Ingredient name | % | CAS number |
| | | | | | |
| | | | 2-Butoxyethanol Proprietary surfactant | 20 - 30 10 - 20 | 111-76-2 Trade secret. |
| | | | C Character allegancie Cap at allegancies | 5 - 10 | |
| | | Used to water wer casing | D-Glucopyranose, oligomeric, C10-16-alkyl glycosides | | 110615-47-9 |
| | | Used to water wet casing and formation to facilitate | Alkylary/sulfonate amine salt | 1 - 5 0.1 - 1 | 110615-47-9 Trade secret. |

" Storage String " CTS "

15.4 ppg Lead - Yield 1,24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB
Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess

Dispersant/Duse 1,5 to per Bet. Cernic; ** - 500 b./ sack (Mix of Class A and Gypsum to meet Dominion Requirements)
15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 b./ sack (Mix of Class A and Gypsum to meet Dominion Requirements)
15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 b./ sack Anti Foam / D13 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam /

1214 S-5H Marcellus Shale Horizontal



Lewis County, WV D801 - 0.03 gal / sack Retarder - 0% Excess 1214 S-5H SHL 14206326.78N 1775733.72E 1214 S-5H LP 14205511.8N 1774783.47E Ground Elevation 1159 14186683.01N 1781436.86E 160.539° 1214 S-5H BHL Azm COMMENTS WELLBORE DIAGRAM HOLE CASING GEOLOGY TOP BASE MUD CEMENT CENTRALIZERS CONDITIONING Conductor casing = 0.5" wall 30" 157.5# Ensure the hole is clean at N/A. Casing to be drilled N/A 30" AIR TD. thickness LS in w/ Dual Rotary Rig Conductor 0 120 Once casing is at setting 0 Fresh Water 200, 550, 800 15.6 ppg Class A Neat Surface casing = 0.438" wall depth, circulate a minimum Centralized every 3 20" 94#/sk 25" AIR of one hole volume with thickness Kittaning Coal 910 915 40% Excess loints to surface 94# J-55 Fresh Water prior to Burst=2110 psi Yield=1.18 / CTS Fresh Water 0 1050 pumping cement Protection Little Lime Once casing is at setting 1464 1482 See above (LEFT) for Bow Spring on every depth. Circulate and 1509 1569 AIR / KCL Storage String Cement joint Intermediate casing = 0.480" Big Lime 13-3/8" 68# condition at TD. Circulate a 17.5" Blend to Meet DTI "will also be running wall thickness Sal J-55 BTC 1571 / 1854 1679 / 191 minimum of one hole Injun / Gantz (Storage) Burst=3450 psi ACP for isolating Polymer Requirements for Gas volume prior to pumping storage zone* Storage Field Isolation 0 Intermediate 1 2050 cement Fifty / Thirty Foot 1970 / 2069 1990 / 2084 Once casing is at setting 15.6 ppg Class A Bow Spring on first 2 depth. Circulate and Cordon Stray / Gordon 2099 / 2134 2136 / 221 AIR / KCI 94#/sk Intermediate casing = 0.395 9-5/8" 40# joints then every third condition mud at TD wall thickness 12.25 5th Sand 2354 2399 Salt 1% Calcium BWOC -J-55 BTC foint to 100' form Circulate a minimum of one 40% Excess Burst=3950 psi Polymer surface hale valume prior to 2464 / 2764 Bayard / Warren 2434 / 2729 Yield=1.2 / CTS pumping cement. Intermediate 2 0 2850 Speechley 3065 3080 Run 1 spiral centralizer AIR / 3238 Balltown 3178 every 5 joints from the 8.75" Vertical 9 Oppg top of the curve to 3841 Bradford SOBM surface. 4362 4374 Benson Class A 14.8 ppg Once on bottom/TD with Rhinestreet 6009 6255 Yield 1 34 casing, circulate at max D255 - 0.4% BWOB Production casing = 0.415" Cashaqua 6255 6355 allowable pump rate for at Fluid Loss least 2x bottoms up, or until wall thickness 5-1/2" D198 - 0.55% BWOB 6355 6387 Middlesex 11.5ppgreturns and pump Burst=16240 psi 23# Retarder 12.5ppg Note: Actual centralizer 8.5" Curve 6458 pressures indicate the hole P-110 HP West River 6387 D047 - 0.02 gal / sack SOBM schedules may be changed CDC HTQ Run 1 spiral centralizer is clean. Circulate a Burkett 6458 6458 Anti Foam every 3 joints from the minimum of one hole due to hole conditions D208 - 0.05% BWOB 1st 5.5" long joint to the volume prior to pumping **Tully Limestone** 6468 6576 Viscosifier top of the curve. cement. Hamilton 6576 6685 10% Excess Marcellus 5685 6767 11.5ppg-TMD / TVD 8.5" Lateral 27481 6693 12.5ppg (Production) SOBM

X

LP @ 6693' TVD / 7504'

X X X

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

6767

X

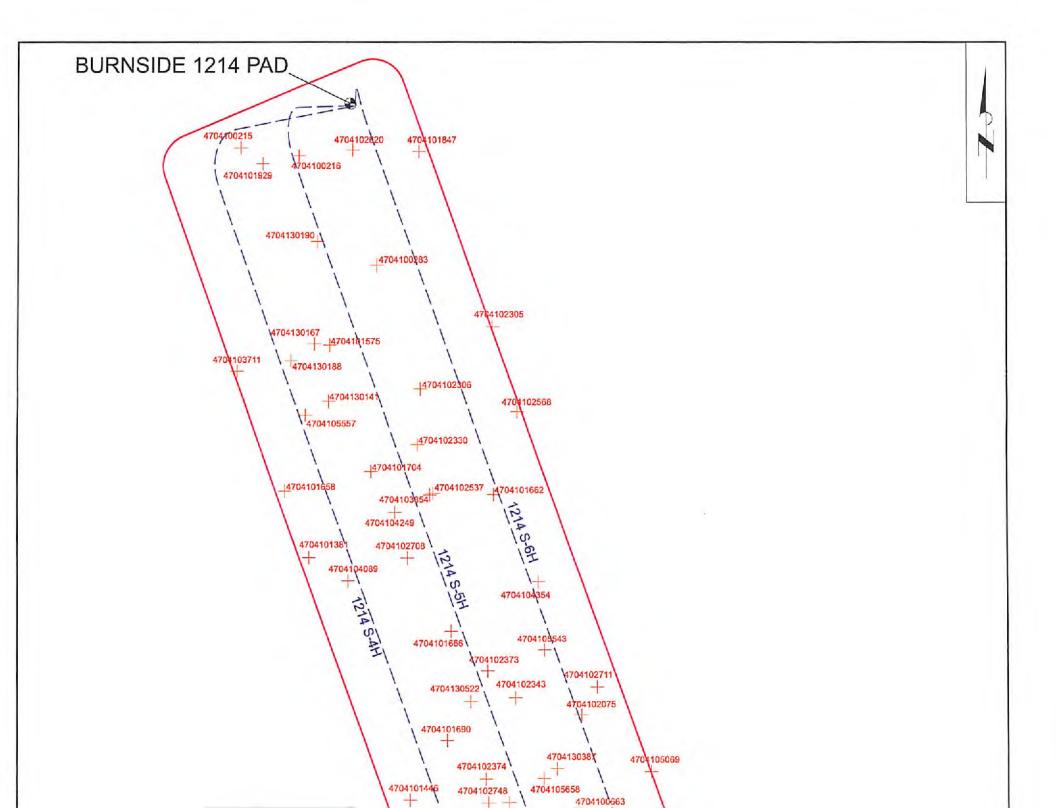
Onondaga

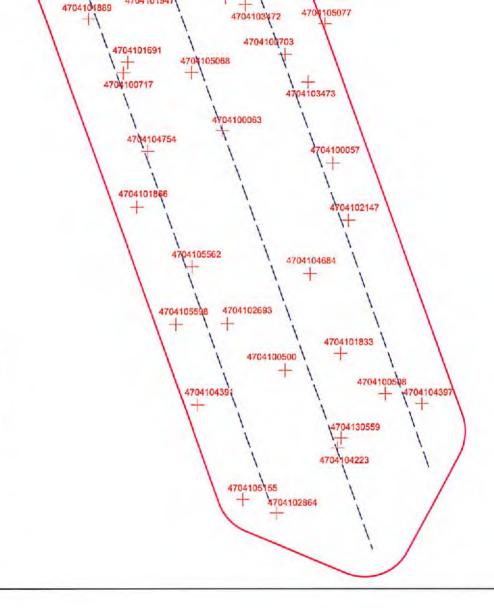
X

+/-19977" ft Lateral

X X X

TD @ +/-6693' TVD +/-27481' MD





Area of Review for:

SCALE: 1" = 1,500'

DATA SOURCES WVGES Data Set - 2020; WVDEP Website

Well Key

Conventional Vertical Well

See Accompanying Spreadsheets

Proposed Horizontal Marcellus Well

1,500'

4704102963

BURNSIDE 1214 SOUTH UNIT

Proposed 1214 S-4H Proposed 1214 S-5H Proposed 1214 S-6H

Freeman's Creek District, Lewis County, W.Va.

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



EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

BURNSIDE 1214 SOUTH UNIT AND PROPOSED WELLS S-4H, S-5H & S-6H

| СТ | API | COUNTY | FARM | OPERATOR NAME | FORMATION NAME | WELL TYPE | TVD | STATUS | LATITUDE | LONGITUDE |
|----|------------|--------|----------------------------|------------------------------------|---------------------|-----------------|------|-----------|-----------|------------|
| 1 | 4704100057 | Lewis | J B Lovett | Alliance Petroleum Co. LLC | Oriskany | Gas | 6997 | ACTIVE | 39.081562 | -80.505203 |
| 2 | 4704100063 | Lewis | J W Kemper | Alliance Petroleum Co. LLC | Benson | Gas | 4346 | ACTIVE | 39.082991 | -80,511165 |
| 3 | 4704100215 | Lewis | Payne Hall | Dominion Energy Transmission, Inc. | Fifth | Storage | 2370 | ACTIVE | 39,117271 | -80.529147 |
| 4 | 4704100216 | Lewis | Jonathan W & Helen S Foote | Dominion Energy Transmission, Inc. | Gantz | Storage | 1860 | ACTIVE | 39,116920 | -80.525927 |
| 5 | 4704100283 | Lewis | J S Hall | Hope Natural Gas Company | Greenland Gap Fm | Gas w/ Oil Show | 3008 | PLUGGED | 39.112220 | 80.521721 |
| 6 | 4704100500 | Lewis | Lyle Randolph | LuRay Land, Inc. | Price Fm & equivs | Gas | 1521 | PLUGGED | 39.072713 | -80,507865 |
| 7 | 4704100508 | Lewis | Lyle Randolph | LuRay Land, Inc. | not available | not available | - | PLUGGED | 39.071679 | -80.502419 |
| 8 | 4704100663 | Lewis | S Hall | Key Oil Company | Price Fm & equivs | Gas w/ Oil Show | 1420 | ACTIVE | 39.088704 | -80.510938 |
| 9 | 4704100703 | Lewis | S Hall | Key Oil Company | Up Devonian | Dry w/ O&G Show | 1967 | ACTIVE | 39.086253 | -80.507753 |
| 10 | 4704100717 | Lewis | S A & C M Hall | Alliance Petroleum Co. LLC | Price Fm & equivs | Gas | 1447 | ABANDONED | 39.085501 | -80.516562 |
| 11 | 4704101381 | Lewis | James & Lee Ann Hall | Dominion Energy Transmission, Inc. | Price Fm & equivs | Gas | 1533 | ACTIVE | 39.099706 | 80.525517 |
| 12 | 4704101446 | Lewis | S & C Hall | Alamco, Inc. | Undf PRICE blw INJN | Dry w/ Oil Show | 1661 | PLUGGED | 39.089272 | -80.520098 |
| 13 | 4704101575 | Lewis | James M. Evans | Dominion Energy Transmission, Inc. | Greenland Gap Fm | Gas | 4548 | ACTIVE | 39.108789 | 80.524293 |
| 14 | 4704101658 | Lewis | James S. Hall | Dominion Energy Transmission, Inc. | Benson | Oil and Gas | 4600 | ACTIVE | 39.102559 | 80.526802 |
| 15 | 4704101662 | Lewis | N A Lovett | Dominion Energy Transmission, Inc. | Greenland Gap Fm | Gas | 4400 | ACTIVE | 39.102342 | 80.515421 |
| 16 | 4704101666 | Lewis | M J Hall | Dominion Energy Transmission, Inc. | Benson | Gas | 4551 | ACTIVE | 39.096499 | 80.517798 |
| 17 | 4704101690 | Lewis | Robert D Hall et al | Alliance Petroleum Co. LLC | Benson | Gas | 4215 | ACTIVE | 39.091809 | 80.518055 |
| 18 | 4704101691 | Lewis | Robert D Hall et al | Alliance Petroleum Co. LLC | Benson | Gas | 4451 | ACTIVE | 39.085964 | -80.516321 |
| 19 | 4704101704 | Lewis | Equitable Gas Co | Dominion Energy Transmission, Inc. | Greenland Gap Fm | Gas | 4500 | ACTIVE | 39.103372 | 80.522098 |
| 20 | 4704101833 | Lewis | Lott Hall | Greylock Conventional, LLC | Benson | Gas | 4300 | ACTIVE | 39.073420 | -80,504838 |
| 21 | 4704101847 | Lewis | Joseph S Hall | Dominion Energy Transmission, Inc. | Greenland Gap Fm | Gas | 4556 | ACTIVE | 39,117078 | 80.519385 |
| 22 | 4704101866 | Lewis | F M McKinley | Clem Energy, LLC | Helderberg | Gas | 7325 | ACTIVE | 39.079729 | -80.515877 |
| 23 | 4704101889 | Lewis | S A & C M Hall | Mountain V, LLC | Helderberg | Gas w/ Oil Show | 7140 | ACTIVE | 39.087821 | -80.518423 |
| 24 | 4704101929 | Lewis | Jonathan W/Helen S Foote | Dominion Energy Transmission, Inc. | Benson | Oil and Gas | 4450 | ACTIVE | 39.116585 | -80.527939 |
| 25 | 4704101947 | Lewis | Charles Hall | Mountain V, LLC | Benson | Gas | 4260 | ACTIVE | 39.089127 | -80,514702 |
| 26 | 4704102075 | Lewis | F McKinley | Mountain V, LLC | Benson | Gas | 4360 | ACTIVE | 39.092872 | 80.510731 |
| 27 | 4704102147 | Lewis | J B Lovett | Alliance Petroleum Co. LLC | Benson | Gas | 4519 | ACTIVE | 39.079120 | -80.504372 |
| 28 | 4704102305 | Lewis | M C Burnside | Dominion Energy Transmission, Inc. | Fifth | Gas | 2192 | PLUGGED | 39.109536 | 80.515439 |
| 29 | 4704102306 | Lewis | Laura H Evans | Dominion Energy Transmission, Inc. | Greenland Gap Fm | Gas w/ Oil Show | 4511 | ACTIVE | 39.106891 | 80.519384 |
| 30 | 4704102330 | Lewis | A Brown | Ross & Wharton Gas Co. Inc. | not available | not available | 1000 | ABANDONED | 39.104499 | -80.519545 |
| 31 | 4704102343 | Lewis | F McKinley | Alliance Petroleum Co. LLC | Fifth | Gas | 2260 | ABANDONED | 39.093622 | -80.514331 |
| 32 | 4704102373 | Lewis | A McKinley | Alliance Petroleum Co. LLC | Hampshire Grp | Gas | 2500 | ABANDONED | 39.094782 | -80.515820 |
| 33 | 4704102374 | Lewis | F McKinley | Alliance Petroleum Co. LLC | Hampshire Grp | Gas | 2182 | ABANDONED | 39.090141 | 80.515956 |
| 34 | 4704102537 | Lewis | C E Stout | Enervest Operating LLC | Bradford | Gas | 3472 | ACTIVE | 39.102416 | 80.518734 |
| 35 | 4704102568 | Lewis | C E Stout | Enervest Operating LLC | Greenland Gap Fm | Gas | 3533 | ACTIVE | 39.105883 | 80.514124 |
| 36 | 4704102620 | Lewis | J S Hall | Dominion Energy Transmission, Inc. | not available | Storage | | ACTIVE | 39.117158 | 80.523002 |

| 584 Lewis 554 Lewis 568 Lewis 569 Lewis 577 Lewis 557 Lewis 562 Lewis 5698 Lewis 558 Lewis 561 Lewis 561 Lewis 562 Lewis 562 Lewis 563 Lewis 564 Lewis 565 Lewis 565 Lewis 565 Lewis 565 Lewis 565 Lewis 566 Lewis 567 Lewis 568 Lewis 569 Lewis | Johathan R Dodson Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 S A Hall F White Boyd Gum J M Evans Heirs J A Burnside Thomas G Wright R Harvey Hall Lot Hall | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Key Oil Co. Reserve Gas Co. Reserve Gas Co. Hope Natural Gas Company | Greenland Gap Fm Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier not available Hampshire Grp Hampshire Grp Hampshire Grp Fifth Fifth | Gas | 3568 3485 4310 4199 4411 3380 4576 4800 3653 5767 4408 - 2790 2612 2354 2214 2247 2141 | ACTIVE PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED | 39.082121 39.082501 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 39.106384 39.108849 39.108124 39.113245 39.090577 39.093477 39.069794 | -80.51525: -80.512844 80.505957: -80.51019 80.512724 80.525666 -80.51289 -80.51281: -80.52438 -80.52513 -80.52494 -80.51209 -80.51675 -80.50483 |
|--|--|---|---|--|--|---|--|---|
| 584 Lewis 754 Lewis 754 Lewis 754 Lewis 7568 Lewis 757 Lewis 755 Lewis 757 Lewis 757 Lewis 758 Lewis 7598 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 S A Hall F White Boyd Gum J M Evans Heirs J A Burnside Thomas G Wright R Harvey Hall | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Key Oil Co. Reserve Gas Co. Reserve Gas Co. Hope Natural Gas Company Hope Natural Gas Company Hope Natural Gas Company | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier not available Hampshire Grp Hampshire Grp Hampshire Grp Fifth | Gas Gas Gas Gas Gas Gas Gas Gas Gas w/ Oil Show Gas Gas w/ Oil Show Gas Oil and Gas not available Gas Gas Gas Gas Gas Gas Gas Gas Gas | 3485 4310 4199 4411 3380 4576 4800 3653 5767 4408 - 2790 2612 2354 2214 2247 | ACTIVE PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 39.106384 39.108849 39.108124 39.113245 39.090577 39.093477 | -80.515253 -80.512844 80.5059573 -80.51019 80.512724 80.525666 -80.51289 -80.512813 -80.52438 -80.52513 -80.52494 -80.51209 -80.51675 |
| 584 Lewis 754 Lewis 754 Lewis 754 Lewis 7568 Lewis 769 Lewis 767 Lewis 755 Lewis 757 Lewis 757 Lewis 758 Lewis 7598 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 S A Hall F White Boyd Gum J M Evans Heirs J A Burnside Thomas G Wright | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Key Oil Co. Reserve Gas Co. Reserve Gas Co. Hope Natural Gas Company Hope Natural Gas Company | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier not available Hampshire Grp Hampshire Grp Hampshire Grp | Gas Gas Gas Gas Gas Gas Gas Gas w/ Oil Show Gas Gas w/ Oil Show Gas Oil and Gas not available Gas Gas Gas Gas Gas | 3485 4310 4199 4411 3380 4576 4800 3653 5767 4408 - 2790 2612 2354 2214 | ACTIVE PLUGGED PLUGGED PLUGGED PLUGGED PLUGGED | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 39.106384 39.108849 39.108124 39.113245 39.090577 | -80.51525 -80.51284 80.506963 80.50557 -80.51019 80.51272 80.52566 -80.51289 -80.51281 -80.52438 -80.52513 -80.52643 -80.52494 -80.51209 |
| 584 Lewis 754 Lewis 754 Lewis 7568 Lewis 769 Lewis 769 Lewis 765 Lewis 765 Lewis 7657 Lewis 7662 Lewis 7662 Lewis 7688 Lewis 7688 Lewis 7698 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 S A Hall F White Boyd Gum J M Evans Heirs J A Burnside | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Key Oil Co. Reserve Gas Co. Reserve Gas Co. Hope Natural Gas Company Hope Natural Gas Company | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier not available Hampshire Grp Hampshire Grp | Gas Gas Gas Gas Gas Gas Gas Gas w/ Oil Show Gas Gas w/ Oil Show Gas Oil and Gas not available Gas Gas Gas | 3485 4310 4199 4411 3380 4576 4800 3653 5767 4408 - 2790 2612 2354 | ACTIVE PLUGGED PLUGGED PLUGGED | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 39.106384 39.108849 39.108124 39.113245 | -80.51525 -80.51284 80.50696 80.50557 -80.51019 80.51272 80.52566 -80.51283 -80.51281 -80.52434 -80.52644 -80.52644 |
| 584 Lewis 754 Lewis 754 Lewis 7568 Lewis 769 Lewis 767 Lewis 7655 Lewis 7657 Lewis 7652 Lewis 7658 Lewis 7658 Lewis 7658 Lewis 7658 Lewis 7657 Lewis 7658 Lewis 7658 Lewis 7658 Lewis 7658 Lewis 76598 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 S A Hall F White Boyd Gum J M Evans Heirs | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Key Oil Co. Reserve Gas Co. Hope Natural Gas Company | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier not available Hampshire Grp Hampshire Grp | Gas Gas Gas Gas Gas Gas Gas Gas w/ Oil Show Gas Gas w/ Oil Show Gas Oil and Gas not available Gas Gas | 3485 4310 4199 4411 3380 4576 4800 3653 5767 4408 - 2790 2612 | ACTIVE PLUGGED PLUGGED PLUGGED | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 39.106384 39.108849 39.108124 | -80.51529 -80.51284 80.50598 80.50557 -80.51019 80.51272 80.52566 -80.5128 -80.5128 -80.5243 -80.52514 |
| 584 Lewis 754 Lewis 754 Lewis 7568 Lewis 769 Lewis 767 Lewis 7655 Lewis 7657 Lewis 7662 Lewis 7662 Lewis 7658 Lewis 7658 Lewis 7658 Lewis 7656 Lewis 7658 Lewis 7657 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 S A Hall F White Boyd Gum | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Key Oil Co. Reserve Gas Co. Reserve Gas Co. | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier not available Hampshire Grp | Gas Gas Gas Gas Gas Gas Gas Gas w/ Oil Show Gas Gas w/ Oil Show Gas Oil and Gas not available Gas | 3485 4310 4199 4411 3380 4576 4800 3653 5767 4408 - 2790 | ACTIVE PLUGGED PLUGGED | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 39.106384 39.108849 | -80.5152 -80.5128 80.5069 80.5055 -80.5101 80.5127 80.5256 -80.5128 -80.5128 -80.5243 -80.5243 |
| 584 Lewis 754 Lewis 668 Lewis 669 Lewis 677 Lewis 155 Lewis 543 Lewis 562 Lewis 598 Lewis 558 Lewis 141 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 S A Hall F White | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Key Oil Co. Reserve Gas Co. | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier not available | Gas Gas Gas Gas Gas Gas Gas W/ Oil Show Gas Gas w/ Oil Show Gas Oil and Gas not available | 3485 4310 4199 4411 3380 4576 4800 3653 5767 4408 | ACTIVE PLUGGED | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 39.106384 | -80.5152 -80.5152 80.5069 80.5055 -80.5101 80.5127 80.5256 -80.5128 -80.5128 |
| 584 Lewis 754 Lewis 754 Lewis 7568 Lewis 769 Lewis 767 Lewis 7655 Lewis 7643 Lewis 7657 Lewis 7652 Lewis 7658 Lewis 7658 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 S A Hall | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Key Oil Co. | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm Balltown Brallier Brallier | Gas Gas Gas Gas Gas Gas Gas Gas w/ Oil Show Gas Gas w/ Oil Show Gas Oil and Gas | 3485 4310 4199 4411 3380 4576 4800 3653 5767 | ACTIVE | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 39.090150 | -80.5152 -80.5152 -80.5055 -80.5055 -80.5107 80.5256 -80.5124 -80.513 |
| 584 Lewis 754 Lewis 754 Lewis 7568 Lewis 757 Lewis 755 Lewis 757 Lewis 757 Lewis 757 Lewis 757 Lewis 757 Lewis 7587 Lewis 758 Lewis 7589 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 National Timber Partners WV 2 | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm Balltown Brallier | Gas Gas Gas Gas Gas Gas Gas Gas w/ Oil Show Gas Gas w/ Oil Show | 3485 4310 4199 4411 3380 4576 4800 3653 5767 | ACTIVE | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 39.074701 | -80.5152 -80.5152 80.5065 80.5065 -80.5127 80.5127 80.5256 -80.5121 |
| 584 Lewis 754 Lewis 754 Lewis 768 Lewis 769 Lewis 777 Lewis 755 Lewis 757 Lewis 757 Lewis 757 Lewis 757 Lewis 757 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer National Timber Partners WV 2 | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. Alliance Petroleum Co. LLC | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm Balltown | Gas Gas Gas Gas Gas Gas Gas W/ Oil Show Gas Gas w/ Oil Show | 3485 4310 4199 4411 3380 4576 4800 3653 | ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 39.077178 | -80.5152 -80.5152 -80.5055 -80.5055 -80.510 -80.5127 -80.5256 -80.512 |
| 584 Lewis 754 Lewis 754 Lewis 7568 Lewis 769 Lewis 777 Lewis 755 Lewis 7543 Lewis 757 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst William R Sr & Dixie D Fultineer | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc. | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm Greenland Gap Fm | Gas w/ Oil Show | 3485 4310 4199 4411 3380 4576 4800 | ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 39.105804 | -80.515: -80.515: 80.505: 80.505: -80.510: 80.512: |
| 584 Lewis 754 Lewis 7568 Lewis 759 Lewis 750 Lewis 750 Lewis 750 Lewis 750 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers Dodson Farms LLC James H Hall Trst | Alliance Petroleum Co. LLC Dominion Energy Transmission, Inc. | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm Greenland Gap Fm | Gas Gas Gas Gas Gas Gas Gas | 3485 4310 4199 4411 3380 4576 | ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE | 39.082121 39.085501 39.090409 39.087557 39.067184 39.095668 | -80.5152 -80.5123 80.5069 80.5055 -80.510 |
| 584 Lewis 754 Lewis 758 Lewis 759 Lewis 757 Lewis 759 Lewis | Norma J Gall Norma J Gall James R Myers James R Myers | Alliance Petroleum Co. LLC | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander Greenland Gap Fm | Gas Gas Gas Gas | 3485 4310 4199 4411 3380 | ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE | 39.082121 39.085501 39.090409 39.087557 39.067184 | -80.5152 -80.5123 80.5069 80.5055 -80.5103 |
| 584 Lewis 754 Lewis 568 Lewis 569 Lewis | Norma J Gall Norma J Gall James R Myers | Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander Alexander | Gas Gas Gas Gas | 3485 4310 4199 4411 | ACTIVE ACTIVE ACTIVE | 39.082121 39.085501 39.090409 39.087557 | -80.5152 -80.5128 80.5069 80.5055 |
| 584 Lewis 754 Lewis 168 Lewis | Norma J Gall Norma J Gall | Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR Alexander | Gas Gas Gas | 3485 4310 4199 | ACTIVE ACTIVE ACTIVE | 39.082121 39.085501 39.090409 | -80.5152 -80.5128 80.5069 |
| 584 Lewis 754 Lewis | Norma J Gall | Alliance Petroleum Co. LLC Alliance Petroleum Co. LLC | Misc Sands-RILY/BNSN Misc Sands-BNSN/BRLR | Gas Gas | 3485 4310 | ACTIVE ACTIVE | 39.082121 39.085501 | -80.5152 -80.5128 |
| 584 Lewis | | | Misc Sands-RILY/BNSN | Gas | 3485 | ACTIVE | 39.082121 | -80.5152 |
| S 7 | Johathan R Dodson | Alliance Petroleum Co. LLC | Greenland Gap Fm | 500 | | 17.12.5 | | |
| 410.70 | | | | | | | 39.076841 | -80.5064 |
| 97 Lewis | Jonathan R Dodson | Alliance Petroleum Co. LLC | Greenland Gap Fm | Gas | 3554 | ACTIVE | 39.071242 | -80.5004 |
| 91 Lewis | Johahan R Dodson | Alliance Petroleum Co. LLC | Greenland Gap Fm | Gas | 3475 | ACTIVE | 39.071244 | -80.512 |
| 54 Lewis | James H Hall trst | Dominion Energy Transmission, Inc. | Greenland Gap Fm | Gas | - | | | 80.5130 |
| 49 Lewis | Blaine Kershner | Dominion Energy Transmission, Inc. | Fifth | Gas | 2145 | | | 80,5208 |
| 23 Lewis | James E Trapp | Enervest Operating LLC | Greenland Gap Fm | Gas | 4262 | | | -80.5050 |
| 89 Lewis | James S Hall | Enervest Operating LLC | Greenland Gap Fm | Gas | 4300 | | | 80.5233 |
| 54 Lewis | Bernard B Jerden | Enervest Operating LLC | Brallier | Gas | 5809 | ACTIVE | | 80.5188 |
| 11 Lewis | John L Burnside | Dominion Energy Transmission, Inc. | Benson | Oil and Gas | 4621 | ACTIVE | 39.107689 | -80.5294 |
| 73 Lewis | James 5 Wilson et ux | Key Oil Co. | Benson | Gas | 4628 | ACTIVE | 39.085066 | -80.5065 |
| 72 Lewis | James 5 Wilson et ux | Key Oli Co. | Benson | Gas | 4309 | ACTIVE | 39.088402 | -80,5098 |
| 64 Lewis | David D Dunmire | Petroleum Service Partners, Inc. | Benson | Gas | 4956 | ACTIVE | 38.944343 | -80.6125 |
| 48 Lewis | Geo McKinley | UNKNOWN | not available | not available | 15.8 | ABANDONED | 39.089127 | -80.5158 |
| 11 Lewis | Franklin McKinney | Alliance Petroleum Co. LLC | Big Lime | Gas | 1542 | ACTIVE | 39.094057 | -80.5098 |
| | | UNKNOWN | Gantz | Gas | 2187 | ABANDONED | 39.099662 | 80,5201 |
| 1 | 148 Lewis 164 Lewis 172 Lewis 173 Lewis 171 Lewis 1854 Lewis 189 Lewis 123 Lewis 1249 Lewis | 11 Lewis Franklin McKinney 12 Lewis Geo McKinley 13 Lewis David D Dunmire 14 Lewis James S Wilson et ux 15 James S Wilson et ux 16 Lewis John L Burnside 17 Lewis Bernard B Jerden 18 Lewis James S Hall 18 Lewis James E Trapp 18 Lewis Blaine Kershner | Lewis Franklin McKinney Alliance Petroleum Co. LLC 48 Lewis Geo McKinley UNKNOWN 64 Lewis David D Dunmire Petroleum Service Partners, Inc. 65 Lewis James S Wilson et ux Key Oil Co. 66 Lewis John L Burnside Dominion Energy Transmission, Inc. 66 Lewis Bernard B Jerden Enervest Operating LLC 67 Lewis James S Hall Enervest Operating LLC 68 Lewis James E Trapp Enervest Operating LLC 68 Lewis James H Hall trst Dominion Energy Transmission, Inc. | Lewis NA Lovett UNKNOWN Gantz Lewis Franklin McKinney Alliance Petroleum Co. LLC Big Lime Alliance Petroleum Co. LLC Benson Benson Benson Alliance Petroleum Co. LLC Benson Benson Alliance Petroleum Co. LLC Benson Benson Alliance Petroleum Co. LLC Benson Benson Alliance S Wilson et ux Key Oil Co. Benson Bens | Lewis NA Lovett UNKNOWN Gantz Gas Lewis Franklin McKinney Alliance Petroleum Co. LLC Big Lime Gas Lewis Geo McKinley UNKNOWN not available not available Lewis David D Dunmire Petroleum Service Partners, Inc. Benson Gas Lewis James S Wilson et ux Key Oil Co. Benson Gas Lewis James S Wilson et ux Key Oil Co. Benson Gas Lewis John L Burnside Dominion Energy Transmission, Inc. Benson Oil and Gas Lewis Bernard B Jerden Enervest Operating LLC Brailier Gas Lewis James S Hall Enervest Operating LLC Greenland Gap Fm Gas Lewis James E Trapp Enervest Operating LLC Greenland Gap Fm Gas Lewis Blaine Kershner Dominion Energy Transmission, Inc. Fifth Gas Lewis James H Hall trst Dominion Energy Transmission, Inc. Greenland Gap Fm Gas | Lewis NA Lovett UNKNOWN Gantz Gas 2187 Lewis Franklin McKinney Alliance Petroleum Co. LLC Big Lime Gas 1542 Lewis Geo McKinley UNKNOWN not available not available not available Lewis David D Dunmire Petroleum Service Partners, Inc. Benson Gas 4956 Lewis James S Wilson et ux Key Oil Co. Benson Gas 4309 Lewis James S Wilson et ux Key Oil Co. Benson Gas 4628 Lewis John L Burnside Dominion Energy Transmission, Inc. Benson Oil and Gas 4621 Lewis Bernard B Jerden Enervest Operating LLC Brailier Gas 5809 Lewis James S Hall Enervest Operating LLC Greenland Gap Fm Gas 4300 Lewis Blaine Kershner Dominion Energy Transmission, Inc. Fifth Gas 2145 Lewis Blaine Kershner Dominion Energy Transmission, Inc. Greenland Gap Fm Gas 4440 Lewis James H Hall trst Dominion Energy Transmission, Inc. Greenland Gap Fm Gas 4440 | Lewis NA Lovett UNKNOWN Gantz Gas 2187 ABANDONED Lewis Franklin McKinney Alliance Petroleum Co. LLC Big Lime Gas 1542 ACTIVE Beautiful Gas 1544 ACTIVE Bea | Lewis NA Lovett UNKNOWN Gantz Gas 2187 ABANDONED 39,099662 Lewis NA Lovett UNKNOWN Gantz Gas 1542 ACTIVE 39,094057 Lewis Franklin McKinney Alliance Petroleum Co. LLC Big Lime Gas 1542 ACTIVE 39,094057 ABANDONED 39,089127 ABANDONED 39,08957 ABANDONED 39,08952 ACTIVE 39,085066 ACTIVE 39,085066 ACTIVE 39,102357 ACTIVE 39,102357 ACTIVE 39,098692 ACTIVE 39,098692 ACTIVE 39,098692 ACTIVE 39,098692 ACTIVE 39,098591 Lewis Blaine Kershner Dominion Energy Transmission, Inc. Fifth Gas 2145 PLUGGED 39,101601 ACTIVE 39,098591 Lewis Blaine Kershner Dominion Energy Transmission, Inc. Greenland Gap Fm Gas 4440 ACTIVE 39,098591 Lewis James H Hall trst Dominion Energy Transmission, Inc. Greenland Gap Fm Gas 4440 ACTIVE 39,098591 |

UPDATED 7/1/2021

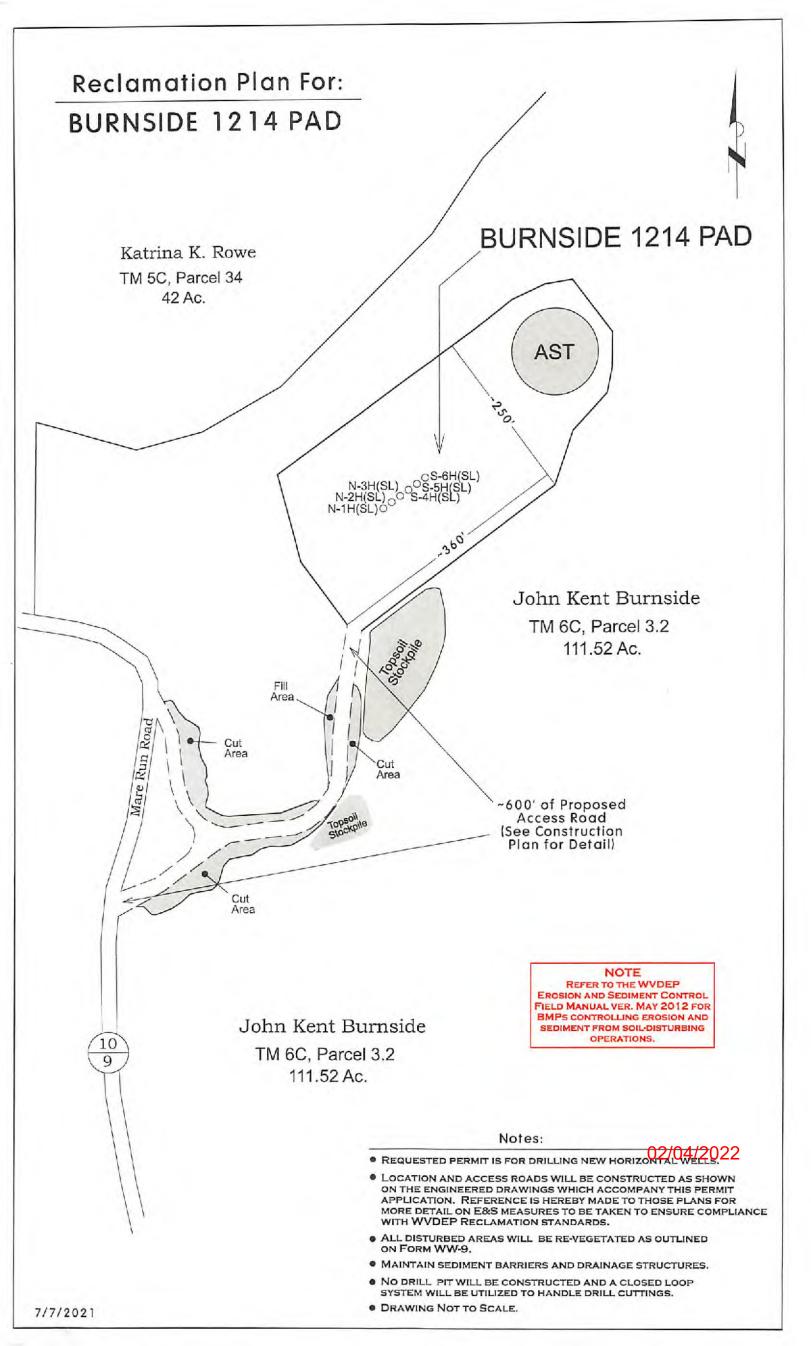
| API Number 47 - | |
|-----------------|------------------------|
| Operator's Well | No. Burnside 1214 S-5H |

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name HG Energy II Appalachia, LLC | OP Code 494501907 |
|---|--|
| | Quadrangle Camden 7.5' |
| Do you anticipate using more than 5,000 bbls of water to complete th | e proposed well work? Yes 🗸 No No |
| Will a pit be used? Yes No V | |
| If so, please describe anticipated pit waste: NA | |
| Will a synthetic liner be used in the pit? Yes No | If so, what ml.? |
| Proposed Disposal Method For Treated Pit Wastes: | SALL |
| Land Application | 50 W 7/1/2921 |
| Underground Injection (UIC Permit Num | ber /1/292(|
| ■ Reuse (at API Number_TBD - At next anticipate | ed well |
| Off Site Disposal (Supply form WW-9 for Other (Explain | r disposal location) |
| Will closed loop system be used? If so, describe: Yes, cuttings and fluids will 5 | e collected in a closed loop system, re-used or habled to an approved disposal site or landfill. |
| Drilling medium anticipated for this well (vertical and horizontal)? A | |
| -If oil based, what type? Synthetic, petroleum, etc. Synthetic | |
| Additives to be used in drilling medium? Water, Soap, KCI, Barite, Base | |
| Drill cuttings disposal method? Leave in pit, landfill, removed offsite | |
| -If left in pit and plan to solidify what medium will be used? | |
| -Landfill or offsite name/permit number? See Attached | And the second second |
| | 1. 1. 61.91 (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 |
| Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided within where it was properly disposed. | |
| on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action. | term or condition of the general permit and/or other applicable nined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant |
| Company Official Signature Diane White | |
| Company Official (Typed Name) Diane White | |
| Company Official Title Agent | |
| 5-40 May 1-10 (1970) 3-10 | |
| Subscribed and sworn before me this 3rd day of May | , 20_21 |
| Cossidy tood | Notary Public October October 1997 |
| My commission expires 7 3 2022 | STATE OF WEST VIRGINI NOTARY PUBLIC STATE OF WEST VIRGINI NOTARY P |
| | 530 13th Ave Vienna, WV 26 My Commission Expires July 31 |

| Proposed Revegetation Treatm | nent: Acres Disturbed _ | 6.32 Prevegeta | tion pH |
|---|---|--|---|
| Lime | 3 Tons/acre or to corr | ect to pH 6.5 | |
| Fertilizer type 10-2 | 20-20 | | |
| Fertilizer amount | | lbs/acre | |
| Mulch Hay | | 2 Tons/acre | |
| | | Seed Mixtures | |
| Tem | porary | | Permanent |
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Tall Fescue | 40 | Tall Fescue | 40 |
| Ladino Clover | 5 | Ladino Clover | 5 |
| Attach: Maps(s) of road, location, pit a | and proposed area for la it will be land applied, in n area. | rilling and completion proce and application (unless engineered plan include dimensions (L x W x D) of the part. | s including this info have beer |
| Attach: Maps(s) of road, location, pit a provided). If water from the pi acreage, of the land application Photocopied section of involve | and proposed area for la it will be land applied, in n area. ed 7.5' topographic shee | nd application (unless engineered plan nelude dimensions (L x W x D) of the p | s including this info have beer |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involved Plan Approved by: | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee | nd application (unless engineered plan nelude dimensions (L x W x D) of the pt. | s including this info have been oit, and dimensions (L x W), a |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involve Plan Approved by: Comments: Pre-seed/r | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee Mulch as soon | nd application (unless engineered plan nelude dimensions (L x W x D) of the p | s including this info have beer oit, and dimensions (L x W), a |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involve Plan Approved by: Comments: Pre-seed/r | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee Mulch as soon | nd application (unless engineered plan nelude dimensions (L x W x D) of the plan t. | s including this info have been oit, and dimensions (L x W), a |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involve Plan Approved by: Comments: Pre-seed/r | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee Mulch as soon | nd application (unless engineered plan nelude dimensions (L x W x D) of the plan t. | s including this info have been oit, and dimensions (L x W), a |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involve Plan Approved by: Comments: Pre-seed/r | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee Mulch as soon | nd application (unless engineered plan nelude dimensions (L x W x D) of the plan t. | s including this info have been oit, and dimensions (L x W), a |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involve Plan Approved by: Comments: Pre-seed/r | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee Mulch as soon | nd application (unless engineered plan nelude dimensions (L x W x D) of the plan t. | s including this info have been oit, and dimensions (L x W), a |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involve Plan Approved by: Comments: Pre-seed/r | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee Mulch as soon | nd application (unless engineered plan nelude dimensions (L x W x D) of the plan t. | s including this info have been oit, and dimensions (L x W), a |
| Attach: Maps(s) of road, location, pit a provided). If water from the piacreage, of the land application. Photocopied section of involve Plan Approved by: Comments: Pre-seed/r | and proposed area for la it will be land applied, in area. ed 7.5' topographic shee Mulch as soon | nd application (unless engineered plan nelude dimensions (L x W x D) of the plan t. | s including this info have been oit, and dimensions (L x W), a |



Cuttings Disposal/Site Water

Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278 1575 Smith Two State Rd. Atlasburg, PA 15004 1-888-294-5227

Waste Management 200 Rangos Lane Washington, PA 15301 724-222-3272

Environmental Coordination Services & Recycling (ECS&R) 3237 US Highway 19 Cochranton, PA 16314 814-425-7773

Disposal Locations:

Apex Environnemental, LLC Permit # 06-08438 11 County Road 78 Amsterdam, OH 43903 740-543-4389

Westmoreland Waste, LLC Permit # 100277 111 Conner Lane Belle Vernon, PA 15012 724-929-7694

Sycamore Landfill Inc. Permit #R30-079001 05-2010 4301 Sycamore Ridge Road Hurricane, WV 25526 304-562-2611

Max Environnemental Technologies, Inc. Facility Permit # PAD004835146 / 301071, 233 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PAD05087072 / 301359 200 Max Drive Bulger, PA 15019 724-796-1571

Waste Management Kelly Run Permit # 100663 1901 Park Side Drive Elizabeth, PA 15037 412-384-7569

Waste Management South Hills (Arnoni) Permit # 100592 3100 Hill Road Library, PA 15129 724-348-7013 412-384-7569

Waste Management Arden Permit # 100172 200 Rangos Lane Washington, PA 15301 724-222-3272

Waste Management Meadowfill Permit # 1032 1488 Dawson Drive Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029 Rd 2 Box 410 Colliers, WV 26035 304-748-0014

02/04/2022

Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185 Rt 1 Box 156A New Martinsville, WV 26035 304-455-3800

Energy Solutions, LLC Permit # UT 2300249 423 West 300 South Suite 200 Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24 1560 Bear Creek Road Oak Ridge, TN 37830

Northern A-1 Environnemental Services Permit ID MIDO20906814 3947 US 131 North, PO Box 1030 Kalkaskø, MI 49646 231-258-9961

Water Haul off Companies:

Dynamic Structures, Clear Creek DOT # 720485 3790 State Route 7 New Waterford, OH 44445 330-892-0164

Nabors Completion & Production Services Co. PO Box 975682 Dallas, TX 75397-5682

Select Energy Services, LLC PO Box 203997 Dallas, TX 75320-3997

Nuverra Environmental Solutions 11942 Veterans Memorial Highway Masontown, WV 26542

Mustang Olifield Services LLC PO Box 739 St. Clairsville, OH 48950

Wilson's Outdoor Services, LLC 456 Cracraft Road Washington, PA 15301

Disposal Locations:

Solidification
Waste Management, Arden Landfili Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-225-1589

Solidification/incineration
Soil Remediation, Inc. Permit # 02-20753
6065 Arrel-Smith Road
Lowelville, OH 44436
330-536-6825

Adams #1 (Buckeye Brine, LLC) Permit # 34-031-2-7177 23986 Airport Road Coshocton, OH 43812 740-575-4484 512-478-6545 CMS of Delaware Inc. DBA CMS Olifield Serv 301 Commerce Drive Moorestown, NJ 08057

Force, inc. 1380 Rta. 286 Hwy. E, Suite 303 Indiana, PA 15701

Solo Construction P.O. Box 544 St. Mary's, WV 26170

Equipment Transport 1 Tyler Court Carlisie, PA 17015

Myers Well Service, ____ 2001 Ballpark Court Export, PA 15632

Burns Drilling & Excavating 618 Crabappie Road P.O. Bow Wind Ridge, PA 15380

Nichlos 1-A (SWIW #13) Permit # 3862 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

Groselle (SWIW #34) Permit # 4096 Rt. 88 Garrettsville, OH 713-275-4816

Kemble 1-D Weil Permit # 8780 7675 East Pike Norwich, Oh 48767 614-648-8898 740-796-6495

02/04/2022

Adams #2 (Buckeye Brine, LLC) 2205 Westover Road Austin Tx 78703 Permit # 34-031-2-7178 740-575-4484 512-478-6545

Adams #3 (Buckeye Brine, LLC) Permit #34-031-2-7241-00-00 2630 Exposition, Suite 117 Austin, TX 78703 512-478-6545

Mozena #1 Well (SWIW # 13) Permit # 34-157-2-5511-00-00 5367 E. State Street Newcomerstown, OH 43832 740-763-3966

Goff SWD #1 (SWIW # 27) Permit # 34-119-2-8776-000 300 Cherrington Pkwy, Suite 200 Coraopolis, PA 15108 412-329-7275

SOS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Silcor Oiifield Services, Inc.
2939 Hubbard Road
Youngstown, PH 44505

Dudley #1 UIC (SWIW #1) Permit # 34-121-2-2459-00-00 Select Energy Services, LLC 7994 S. Pleasants Hwy St. Marys, WV 26170 304-665-2652 OH UIC #1 Bu keya UIC Barnesville 1 & 2 CNX Gas Con. Jany, LLC 1000 Consol Energy Drive Permit # 34-013-2-0609-00-00 Permit # 34-013-2-0614-00-00 304-323-6568

US Steele 11385 Permit # 47-001-00561 200 Evergreen Drive Waynesburg, PA 15730 304-323-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4197-00-00
Elkhead Gas& Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-768-3966

HG Energy II Appalachia, LLC

Site Safety Plan

Burnside 1214 Well Pad Weston Lewis County, WV 26452

October 2020: Version 1

For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

HG Energy II Appalachia, LLC

5260 Dupont Road

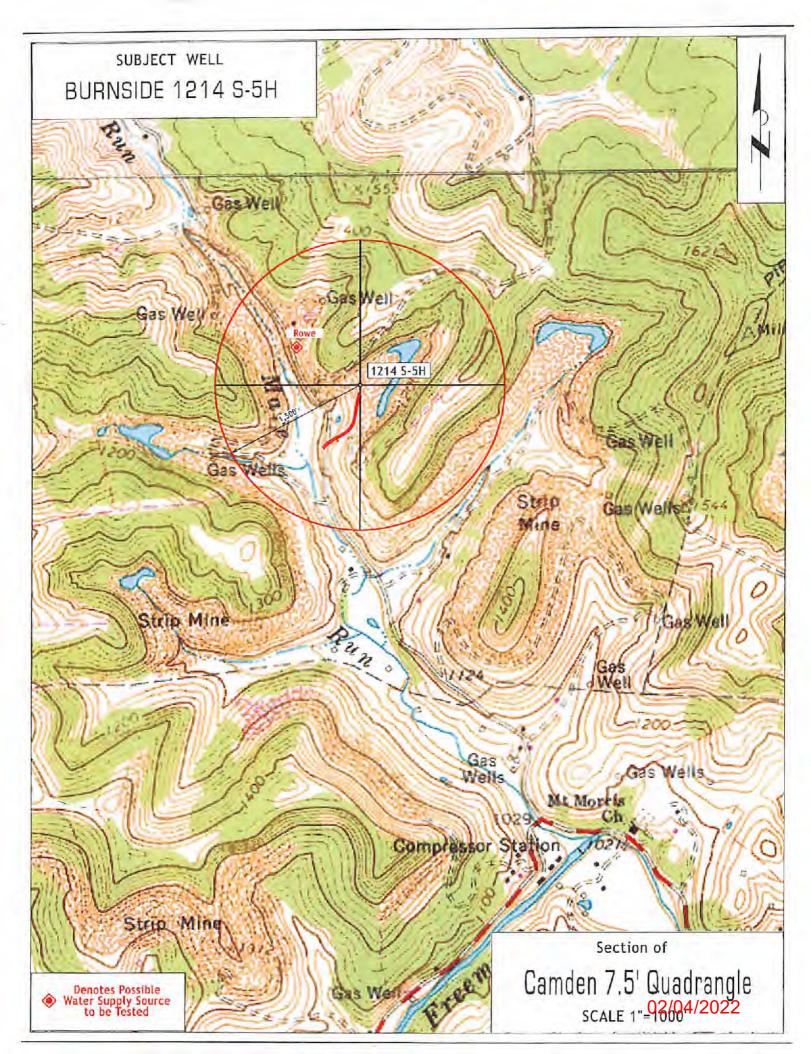
Parkersburg, WV 26101

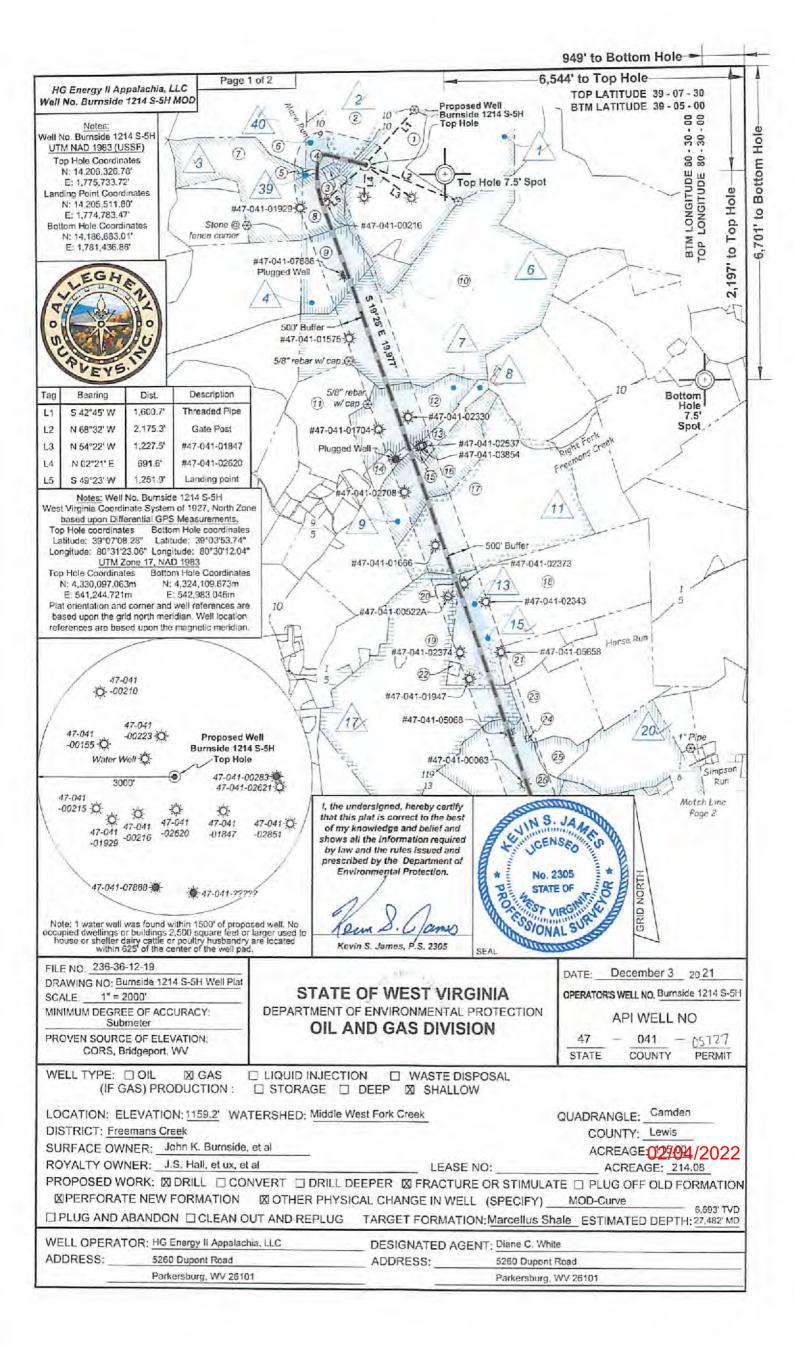
RECEIVED
Office of Oil and Gas

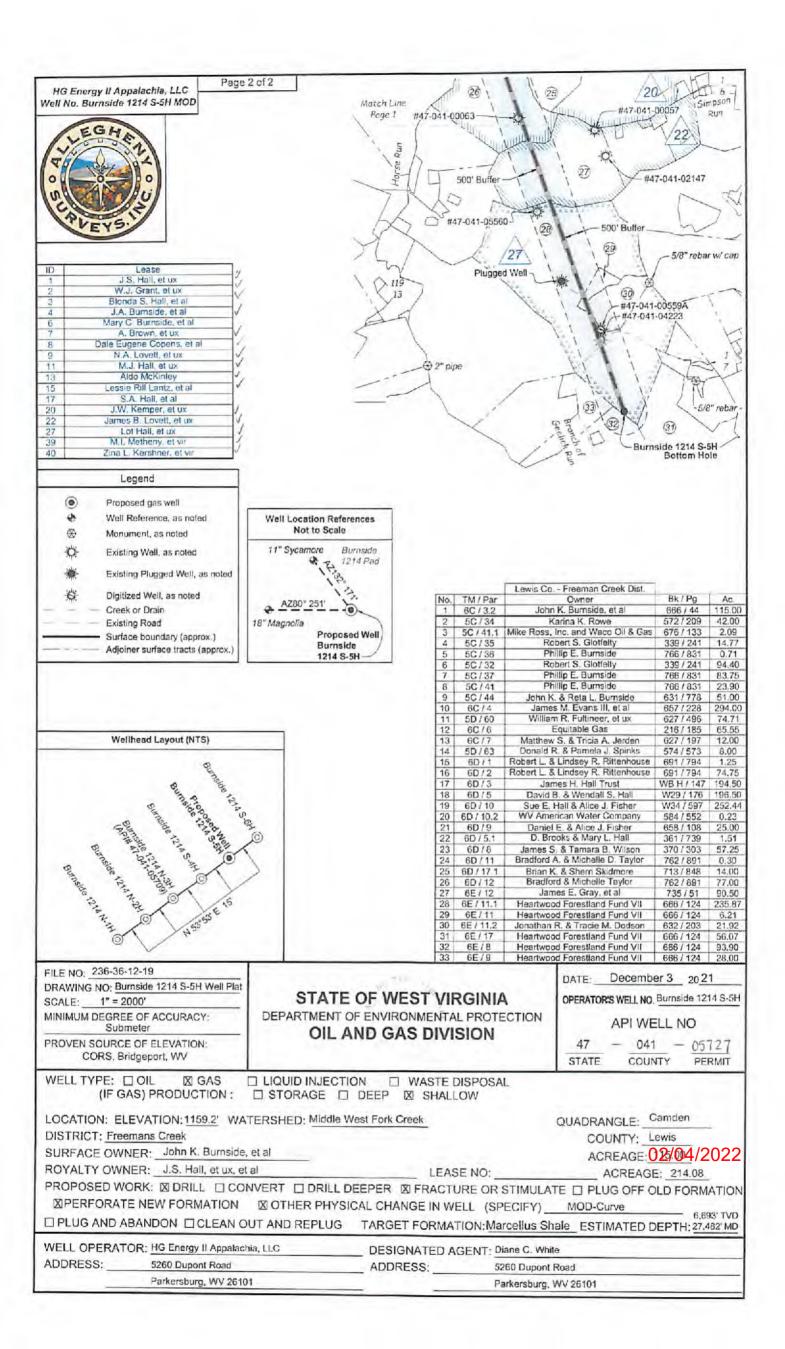
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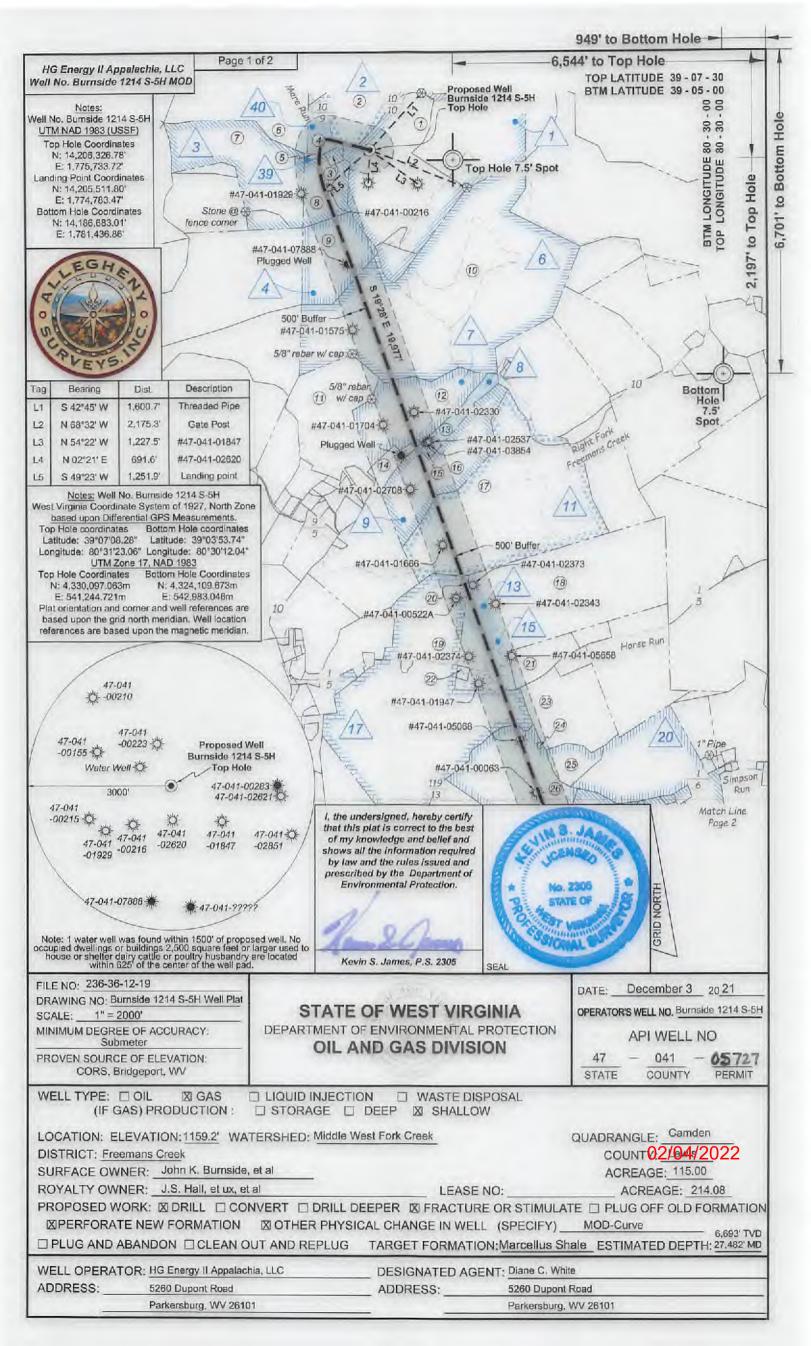
WV Department of Environmental Protection

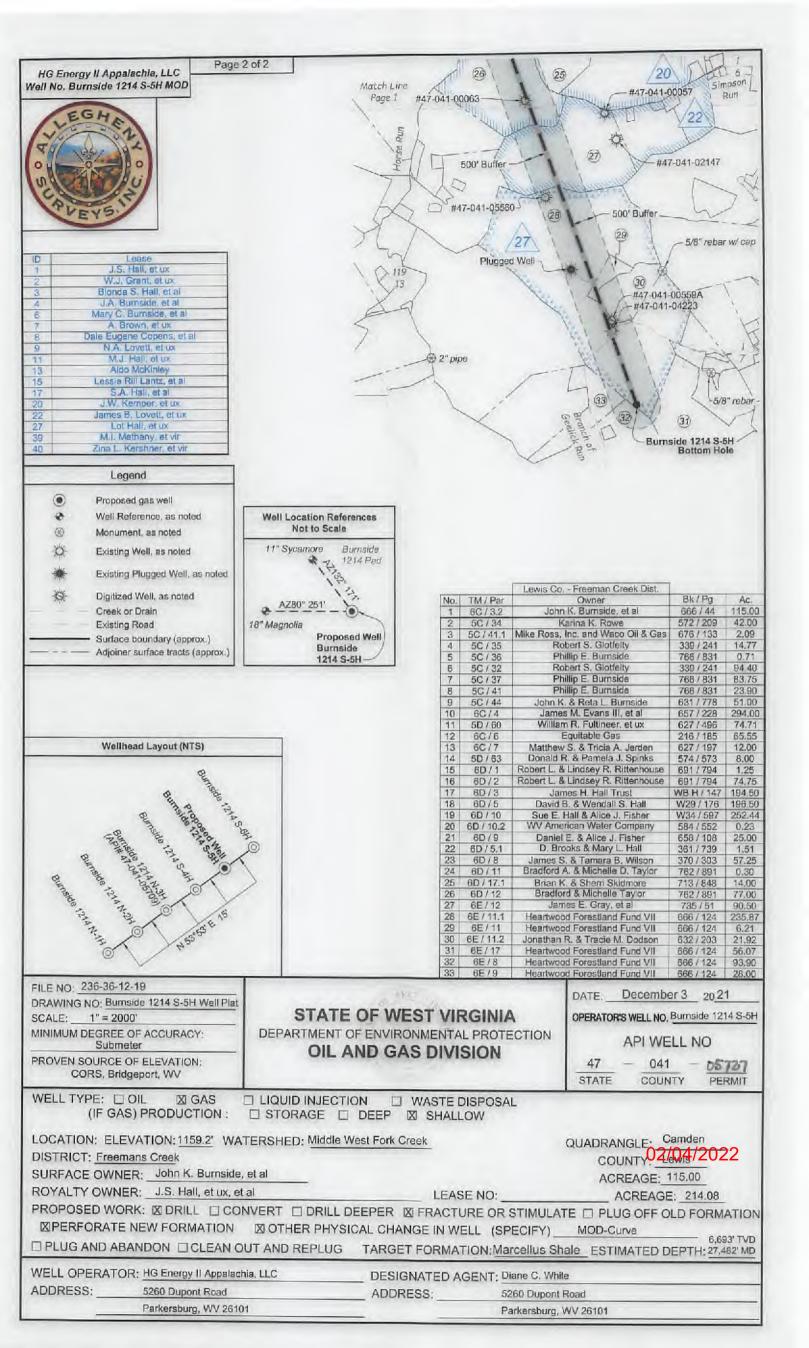
B.S. 10-22-20











WW-6A1 (5/13)

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 | HG Energy II Appalachia, LLC | | | | |
|----------------|--------------|------------------------------|-------|--|--|--|
| By: | Diane White | Diane | White | | | |
| Its: | Accountant | | | | | |

HG Energy II Appalachia, LLC - Burnside 1214 S5H

| | | | | | | | · · · · · · · · · · · · · · · · · · · | |
|-------------|--------------|-------------------|--------------|---|--|-----------------------------------|---------------------------------------|-----------|
| 1214S Tract | LEGACY LEASE | TAX MAP | LEASE NUMBER | GRANTOR/LESSOR | GRANTEE/LESSEE | ROYALTY | DEED BOOK | PAGE |
| | | | | J. S. HALL AND CORA A. HALL, HIS WIFE | SOUTH PENN OIL COMPANY | NOT LESS THAN 1/8 | 42 | 94 |
| | | | | 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 |
| | 1 | | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | 1 | | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | |
| | 1 | | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| • | 1 | 03-006C-0003-0000 | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| 1 | FK053143 | 03-006C-0003-0001 | Q101021000 | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| | | 03-005C-0042-0000 | | 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 |
| 1 | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| | | | İ | DOMINON TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| 1 | | | | | | SECOND AMENDMENT TO MEMORANDUM OF | 1 | |
| | 1 | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| 1 | | | | | | THIRD AMENDMENT TO MEMORANDUM OF | | |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| | | | | W. J. GRANT AND ADDIE J. GRANT, HIS WIFE | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 209 | 438 |
| | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | | 1 | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | | | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | |
| ŀ | | | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | 454 |
| | | | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| . [| | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 848 |
| 2 | FK061776 | 03-005C-0034-0000 | Q100936000 | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 717 | |
| | | 55 0050 0054 0500 | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT ASSIGNMENT | 717 | 170 |
| | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | MERGER/NAME CHANGE | WVSOS | 170 |
| | | | | DOMINON TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | SECOND AMENDMENT TO MEMORANDUM OF | WV303 | - |
| | | | | DOLANION SMEDS V TRANSPAISSION INC | HC ENERGY II ARRAL ACUITA LLC | FARMOUT AGREEMENT | 723 | 499 |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | THIRD AMENDMENT TO MEMORANDUM OF | 723 | - 455 |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| | - | | | ZINA L. KERSHNER AND F. H. KERSHNER,HER HUSBAND | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 221 | 97 |
| | | | | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | CONFIRMATORY DEED | 155 | 202 |
| 1 | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | |
| | | | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | |
| | | | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| 1 | | | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| j . | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| 40 | FK064311 | 03-005C-0035-0000 | Q100856000 | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | 848 |
| 1 | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | 1 |

| | | ı | ı | | INODIE ENEDGY INC | HC ENEDGY II ADDALACHIA LLC | ASSIGNMENT | 722 | 170 |
|-----|---|-----------|-------------------|-------------|--|--|-----------------------------------|------------|-----|
| - 1 | ļ | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | MERGER/NAME CHANGE | wvsos | |
| | | | | | DOMINON TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | SECOND AMENDMENT TO MEMORANDUM OF | ***303 | |
| | | | | | | | | 723 | 499 |
| - 1 | | | ì | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | /23 | 455 |
| l | | | | | | | THIRD AMENDMENT TO MEMORANDUM OF | 724 | 558 |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 736 | 220 |
| L | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | | |
| | | | | | BLONDA S. HALL AND LUCY S. HALL, HIS WIFE; JAMES H. HALL AND | | | | 1 |
| | | | | | PATRICIA HALL, HIS WIFE; MABEL HALL, WIDOW; MARJORIE HALL | | | | ı |
| | | | | | COSBY AND ROBERT S. COSBY, JR., HER HUSBAND; ROBERTA HALL | | | | ı |
| | | | | | STEPHENS AND CHARLES H. STEPHENS, HER HUSBAND; MABEL JANE | | | | |
| | | | | | HALL GIBBS; AND, HERBERT F. GIBBS, JR., HER HUSBAND | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 222 | 449 |
| | | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | | | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| 1 | | | | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | |
| | | | 02 0050 0027 0000 | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| / | _ | 51/054704 | 03-005C-0037-0000 | 0404057000 | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| Ĭ | 3 | FK064784 | 03-005C-0040-0000 | Q101057000 | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| | | | 03-005C-0041-0000 | | 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 |
| ŀ | | | | i. | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| | | | | | DOMINON TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| l | | | | | | | SECOND AMENDMENT TO MEMORANDUM OF | | 1 1 |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| - 1 | | | | | | | THIRD AMENDMENT TO MEMORANDUM OF | | 1 1 |
| 1 | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| ı | | | | | J. A. BURNSIDE AND BLANCHE BURNSIDE, HIS WIFE; J. S. HALL, | | | | 1 |
| | | | ; | | WIDOWER; AND CLAYTON HALL AND NADINE HALL, HIS WIFE | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 220 | 307 |
| | | | | | 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 | ' |
| - 1 | | | | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| | | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | |
| ノI | 4 | FK064266 | 03-005C-0044-0000 | Q100978000 | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | 848 |
| 1 | | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | 1 |
| l | | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| ı | | | | | DOMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| | | | | | | | SECOND AMENDMENT TO MEMORANDUM OF | | ' |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| | | | | 1 | | | THIRD AMENDMENT TO MEMORANDUM OF | | ' |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | |
| | | | | 1 | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | |
| ł | | | | | MARY C. BURNSIDE AND JOHN L. BURNSIDE, HER HUSBAND | A. W. WOODFORD AND GEO. E. MCGUIRE | NOT LESS THAN 1/8 | 33 | 431 |
| | | | | 1 | A. W. WOODFORD | J. M. GUFFEY AND J. H. GALEY | ASSIGNMENT | 33 | 515 |
| | | | | 1 | J. M. GUFFEY AND J. H. GALEY | THE PHILADELPHIA COMPANY OF WEST VIRGINIA | ASSIGNMENT | 44 | 583 |
| l | | | | | THE PHILADELPHIA COMPANY OF WEST VIRGINIA | THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY | ASSIGNMENT | 125 | 379 |
| | | | | İ | THE PHILADELPHIA COMPANY OF WEST VIRGINIA | THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY | DEED | 125 | 371 |
| | | · | | | THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY | EQUITABLE GAS COMPANY | DEED | 216 | 185 |
| | | | | 1 | EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 246 | 192 |
| | | | | 1 | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | | | 1 | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| Į. | | 1 | I | I | CONSOCIONIED GAS SOFFEI CONFORMION | Technolism our municipalou com curulou | | | |

| 1 | 1 | ı | | 1 | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | 1 |
|-------|---|----------|-------------------|------------------|--|--|-----------------------------------|--------|-----|
| | | | 03-005C-0043-0000 | | | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| ١, | 6 | FK052229 | 03-006C-0004-0000 | Q100759000 | | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| | | | 03 0000 0004 0000 | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| | | | | | | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | 848 |
| | | | | | | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | 1 |
| | | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| | | | | | | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| | | | | | DOMINION TRANSMISSION, INC. | BOWINTON ENERGY TRANSPIRISSION, INC. | SECOND AMENDMENT TO MEMORANDUM OF | ****** | |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| | | | | | BOMINION ENERGY TRANSMISSION, INC. | TO ENERGY II AT A DACTIN, LEE | THIRD AMENDMENT TO MEMORANDUM OF | | |
| l | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| ľ | | | | | | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| ⊢ | | | | | · · · | SOUTH PENN OIL COMPANY | NOT LESS THAN 1/8 | 42 | 35 |
| ľ | | | | | | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 85 | 127 |
| | | | | | | RESERVE GAS COMPANY | ASSIGNMENT | 79 | 370 |
| | | | | 1 | | HOPE NATURAL GAS COMPANY | MERGER/NAME CHANGE | wvsos | |
| | | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | | | 1 | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| 1 | | | | | | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wysos | 127 |
| | | | | | CONSOLIDATED GAS TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| | | | | | | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| _/I | 7 | FK053145 | 03-006C-0006-0000 | Q100479000 | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| ´ | ′ | FN033143 | 03-008C-0008-0000 | -0000 (100475000 | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (30%) | 712 | 848 |
| 1 | | | | | | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | |
| | | | | | | | ASSIGNMENT | 722 | 170 |
| - 1 | | | | | NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | 170 |
| - 1 | | | | | DUMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSIVISSION, INC. | SECOND AMENDMENT TO MEMORANDUM OF | ***303 | |
| 1 | | | | | DOMINION ENERGY TRANSMISSION, INC | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | NG ENERGY II AFFALACNIA, LLC | THIRD AMENDMENT TO MEMORANDUM OF | 725 | |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| | | | | | | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| ⊢ | | | | | DOMINION ENERGY TRANSMISSION, INC. | ind Enterior in All Fabricina, etc | ASSIGNMENT (SON) | | |
| | | | | | DALE E COPENS ET UX | JAMES F. SCOTT | NOT LESS THAN 1/8 | 369 | 104 |
| | | | | | JAMES F SCOTT | GEORGE R. GIBSON | ASSIGNMENT | 378 | 160 |
| | | | | 1 | GEORGE R. GIBSON ET UX | RANDALL GIBSON | ASSIGNMENT (50%) | 489 | 623 |
| | | | | 1 | GEORGE R. GIBSON ET UX | RANDALL GIBSON | ASSIGNMENT (50%) | 489 | 625 |
| | | | | | JAMES F SCOTT, GEORGE R. GIBSON, RANDALL GIBSON, AND RICHARD | RANDALL GIBSON | ASSIGNMENT (SOM) | | |
| | | | | | GIBSON | CABOT OIL AND GAS CORP | ASSIGNMENT | 513 | 82 |
| - √ l | . | TBD | 03-005D-0063-0000 | SWNEQ728520-001 | CABOT OIL AND GAS CORP | NATURAL GAS INVESTMENTS, LLC | ASSIGNMENT | 529 | 702 |
| · ' I | ° | 100 | 03-006C-0007-0000 | CNXDV011669 FEE | NATURAL GAS INVESTMENTS, LLC | CABOT OIL AND GAS CORP | ASSIGNMENT | 557 | 652 |
| | | | | | CABOT OIL AND GAS CORP | ENERVEST APPALACHIA, LP | ASSIGNMENT | 558 | 249 |
| | | | | | ENERVEST APPALACHIA, LP | CGAS PROPERTIES LP | ASSIGNMENT | 621 | 590 |
| | | | | | ENERVEST APPALACHIA, LP ENERVEST APPALACHIA, LP & CGAS PROPERTIES LP | WINTER MOON ENERGY COMPANY LLC | ASSIGNMENT | 648 | 548 |
| | | | | 1 | · | WINTER MOON ENERGY COMPANY LLC | ASSIGNATION | | |
| j | | | | 1 | WINTER MOON ENERGY COMPANY LLC & CHESAPEAKE APPALACHIA, | SWN PRODUCTION COMPANY, LLC | ASSIGNMENT | 684 | 333 |
| l | | | | 1 | | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 769 | 529 |
| ŀ | | - | | | | SOUTH PENN OIL COMPANY | NOT LESS THAN 1/8 | 42 | 110 |
| | | | | | N. A. LOVETT AND S. E. A. LOVETT, HIS WIFE SOUTH PENN OIL COMPANY | RESERVE GAS COMPANY | ASSIGNMENT | 79 | |
| - 1 | | | | | | | CONFIRMATORY DEED | 155 | 202 |
| | | | | | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | ļ | | | | HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | | | | | CONSOLIDATED GAS SOPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | |
| l | | | | | | | | WW | |

| ı | ı | ı | 1 | i | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
|----------|----|--|-------------------|----------------------|--|---|---|---------|-------|
| | | | | İ | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| | | | | 1 | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| 1 | | | 03-006D-0001-0000 | 1 | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | 848 |
| - T | 9 | FK053146 | 03-006D-0002-0000 | Q100480000 | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | 1 |
| 1 | | | 03-0000-0002-0000 | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| | | | | l | DOMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wysos | |
| 1 | | ŀ | | | DOMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSPIRESTON, INC. | SECOND AMENDMENT TO MEMORANDUM OF | | |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| | | | | | DOMINION ENERGY TRANSIVISSION, INC. | III ENERGY II AFFACACIIA, LLC | AMENDED AND RESTATED PARTIAL ASSIGNMENT | | |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | (32%) | 723 | 527 |
| | | | l i | | DOMINION ENERGY TRANSIVISSION, INC. | ING ENERGY II AFT ADACTIA, LEC | THIRD AMENDMENT TO MEMORANDUM OF | | |
| ŀ | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| - 1 | | 1 | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| ⊢ | | | | | M. J. HALL AND M. J. HALL, HIS WIFE | SOUTH PENN OIL COMPANY | NOT LESS THAN 1/8 | 42 | 92 |
| | | | | | SOUTH PENN OIL COMPANY | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 85 | 127 |
| 1 | | | | 1 | HOPE NATURAL GAS COMPANY | RESERVE GAS COMPANY | ASSIGNMENT | 79 | 370 |
| | | | | | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | MERGER/NAME CHANGE | 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 SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wysos | |
| | | | | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| | | | | | DOMINION TRANSMISSION, INC. | DOMINION EXPLORATION & PRODUCTION INC. | ASSIGNMENT | 641 | 533 |
| | | | | | DOMINION EXPLORATION & PRODUCTION INC | DOMINION TRANSMISSION, INC. | ASSIGNMENT | 651 | 137 |
| ./ | 44 | EVOE 24 CD | 03 0000 0003 0000 | 0003-0000 Q101141000 | | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| * | 11 | FK053168 | 03-006D-0003-0000 | Q101141000 | DOMINION TRANSMISSION, INC. | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| 1 | | | | | CNX GAS COMPANY LLC | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | 848 |
| - 1 | | | | | DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT (3278) | 717 | 1 |
| | | | | | | | ASSIGNMENT | 722 | 170 |
| | | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wysos | |
| | | | | | DOMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSIVISSION, INC. | SECOND AMENDMENT TO MEMORANDUM OF | ******* | |
| | | | i . | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| | | | | | DOWNNON ENERGY TRANSIVISSION, INC. | HO ENERGY II AFFALACHIA, LLC | THIRD AMENDMENT TO MEMORANDUM OF | | |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| - 1 | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |
| ⊢ | | | - | | S. A. HALL AND GEORGIA E. HALL, HIS WIFE; AND CLAUDE M. HALL | THE ENERGY HAWAY ELEC | | | |
| | | | | l | AND NELLE HALL, HIS WIFE | ALLEGHENY LAND AND MINERAL COMPANY | NOT LESS THAN 1/8 | 258 | 541 |
| | | | | | ALLEGHENY LAND AND MINERAL COMPANY | ALLEGHENY LAND AND MINERAL COMPANY | CONFIRMATORY DEED | 401 | 538 |
| | | | | | ALLEGHENY LAND AND MINERAL COMPANY | Alamco, Inc. | MERGER/NAME CHANGE | 457 | 667 |
| 1 | | | | | Alamco, Inc. | UMC Petroleum Corporation | ASSIGNMENT | 519 | 24 |
| · | | 1 | 03-006D-0010-0000 | | UMC Petroleum Corporation | Ashland Exploration Holdings, Inc. | ASSIGNMENT | 525 | 557 |
| Ч | 17 | DAD41528 | 03-005D-0068-0000 | DAD41528 | Ashland Exploration Holdings, Inc. | Eastern States Oil and Gas, Inc. | ASSIGNMENT | 546 | 207 |
| | | | 03-006D-0010-0002 | | Eastern States Oil and Gas, Inc. | Blazer Energy Corp. | MERGER/NAME CHANGE | wvsos | |
| 1 | | | | | Blazer Energy Corp. | Equitable Production - Eastern States, Inc. | MERGER/NAME CHANGE | wysos | |
| - 1 | | | | | Equitable Production - Eastern States, Inc. | Equitable Production Company | MERGER/NAME CHANGE | wvsos | |
| - 1 | | | | | Equitable Production Company | EQT Production Company | MERGER/NAME CHANGE | wvsos | |
| | | | | | EQT PRODUCTION COMPANY | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 770 | 560 |
| - | | | | | ALDO MCKINLEY | EASTERN OIL COMPANY | NOT LESS THAN 1/8 | 58 | 37 |
| | | | | 1 | EASTERN OIL COMPANY | WEST VIRGINIA CENTRAL GAS COMPANY | ASSIGNMENT | 52 | 323 |
| - 1 | | | | | LASTERIA OLE CONTRAIAL | CUMBERLAND ALLEGHENY GAS COMPANY, FKA WEST VIRGINIA | nasionine(1) | | - 323 |
| | | | | 1 | WEST VIRGINIA CENTRAL GAS COMPANY | AND MARYLAND GAS COMPANY | ASSIGNMENT | 119 | 51 |
| - 1 | | | | 1 | CUMBERLAND AND ALLEGHENY GAS COMPANY | RESERVE GAS COMPANY | ASSIGNMENT | 148 | 437 |
| - 1 | | | | ļ | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | MERGER/NAME CHANGE | wysos | |
| i | | ı | I | I | NEDERVE GAD CONTRAINT | PIOLE HATOHAL OND COMPANY | menoely mante chance | | |

| | | 1 | | | | | | 1 | |
|----------|----|-----------|--|-----------|---|---|----------------------------------|-------|-----|
| ./I | | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| ٠,١ | 13 | 53287 | p/o 03-006D-0005-0000 | CNX053287 | 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 | MERGER/NAME CHANGE | wvsos | |
| | | | 1 | | DOMINION TRANSMISSION INC | CONSOL ENERGY HOLDINGS LLC XVI | ASSIGNMENT | 651 | 318 |
| | | | 1 | | CONSOL ENERGY HOLDINGS LLC XVI | CONSOL GAS COMPANY | MERGER/NAME CHANGE | wvsos | |
| 1 | | | | | CONSOL GAS COMPANY | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | wvsos | |
| | | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | 1 |
| | | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| Γ | | | | | LESSIE RILL LANTZ AND ROBERT C. LANTZ, HER HUSBAND; AND | | | 1 1 | |
| | | | | | LUCILLE M. RIDER, WIDOW | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 294 | 154 |
| | | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | | | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | | | n/o 03 005D 0005 0001 | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | |
| ✓ | 15 | CNX074497 | p/o 03-006D-0005-0001 | CNX053182 | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| - 1 | | | p/o 03-006D-0005-0000 | | DOMINION TRANSMISSION, INC. | CONSOL ENERGY HOLDINGS LLC XVI | ASSIGNMENT | 651 | 318 |
| | | | | | CONSOL ENERGY HOLDINGS LLC XVI | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | 9 | 471 |
| | | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 659 | 521 |
| | | | 1 | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | 1 |
| - 1 | | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| | | | | TBD | J. W. KEMPER SR. AND H. S. KEMPER, HIS WIFE | RESERVE GAS COMPANY | NOT LESS THAN 1/8 | 68 | 268 |
| | | | | | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | MERGER/NAME CHANGE | 155 | 202 |
| | | TBD | 03-006D-0011-0000 03-006D-0012-0000 03-006D-0017-0000 03-006D-0017-0001 | | 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 | |
| - , [| 20 | | | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| √ | | | | | DOMINION TRANSMISSION, INC. | DOMINION EXPLORATION & PRODUCTION INC. | CONFIRMATORY ASSIGNMENT | 620 | 139 |
| | | | | | DOMINION EXPLORATION & PRODUCTION INC | DOMINION TRANSMISSION, INC. | ASSIGNMENT | 651 | 137 |
| - 1 | | | | | DOMINION APPALACHIAN DEVELOPMENT LLC | DOMINION TRANSMISSION, INC. | ASSIGNMENT OF HYDROCARBON LEASES | 651 | 225 |
| 1 | | | | | 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 | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 766 | 352 |
| _ [| | FK053106 | 03-006D-0014-0000 03-006D-0015-0000 03-006E-0012-0000 03-006E-0060-0000 03-006E-0061-0000 03-006E-0062-0000 | DV004937 | JAMES B. LOVETT AND B. E. LOVETT, HIS WIFE | EASTERN OIL COMPANY | NOT LESS THAN 1/8 | 40 | 157 |
| 1 | | | | | EASTERN OIL COMPANY | BUCKHANNON GAS COMPANY | ASSIGNMENT | 40 | 578 |
| | | | | | BUCKHANNON GAS COMPANY | SOUTHERN OIL COMPANY | ASSIGNMENT | 85 | 98 |
| | | | | | SOUTHERN OIL COMPANY | RESERVE GAS COMPANY | ASSIGNMENT | 85 | 106 |
| V | | | | | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | MERGER/NAME CHANGE | 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 | |
| | 22 | | | | CNG TRANSMISSION CORPORATION | UMC PETROLEUM CORPORATION | ASSIGNMENT | 505 | 20 |
| | | | | | UMC PETROLEUM CORPORATION | ASHLAND EXPLORATION INC | ASSIGNMENT | 525 | 557 |
| | | | | | ASHLAND EXPLORATION INC | ASHLAND EXPLORATION HOLDINGS INC | MERGER/NAME CHANGE | WVSOS | |
| | | | | | ASHLAND EXPLORATION HOLDINGS INC | BLAZER ENERGY CORP. | ASSIGNMENT | 546 | 207 |
| | | | | | BLAZER ENERGY CORP. | EASTERN STATES OIL & GAS INC | MERGER/NAME CHANGE | WVSOS | |
| | | | | | EASTERN STATES OIL & GAS INC | EQUITABLE PRODUCTION - EASTER STATES INC | MERGER/NAME CHANGE | wvsos | |
| | | | | | EQUITABLE PRODUCTION - EASTERN STATES INC | EQT PRODUCTION COMPANY | MERGER/NAME CHANGE | wvsos | |
| | | | | | EQT PRODUCTION COMPANY | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 770 | 560 |
| r | | <u> </u> | | | LOT HALL AND BIRD HALL, HISWIFE | EASTERN OIL COMPANY | NOT LESS THAN 1/8 | 40 | 151 |
| l | | 1 | | | EASTERN OIL COMPANY | BUCKHANNON GAS COMPANY | ASSIGNMENT | 40 | 578 |
| | | 1 | | l | BUCKHANNON GAS COMPANY | J.S. GLENN | ASSIGNMENT | 85 | 98 |

| | 1 | i | | | J.S. GLENN | SOUTHERN OIL COMPANY | ASSIGNMENT | 85 | 98 |
|----------|----|------------|-------------------|------------------------|--|--|-----------------------------------|-------|-----|
| | | | | | SOUTHERN OIL COMPANY | RESERVE GAS COMPANY | ASSIGNMENT | 85 | 106 |
| l | | | | 1 | RESERVE GAS COMPANY | HOPE NATURAL GAS COMPANY | ASSIGNMENT | 158 | 575 |
| | | | | | HOPE NATURAL GAS COMPANY | LURAY LAND INC. | ASSIGNMENT | 260 | 232 |
| | | | | | LURAY LAND INC. | CONSOLIDATED GAS SUPPLY CORPORATION | ASSIGNMENT | 294 | 434 |
| | | | | CNIVOTAGA | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| ノ | | F2407 | 03 0055 0004 0000 | CNX053107 AGREEMENT | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG DEVELOPMENT COMPANY | MERGER/NAME CHANGE | wvsos | |
| | 27 | 53107 | 03-006E-0004-0000 | | CNG DEVELOPMENT COMPANY | CNG PRODUCING COMPANY | MERGER/NAME CHANGE | wvsos | |
| | 1 | , j | | 131324000 | CNG PRODUCING COMPANY | DOMINION EXPLORATION & PRODUCTION INC. | MERGER/NAME CHANGE | 58 | 366 |
| | | | | | DOMINION EXPLORATION & PRODUCTION INC | DOMINION TRANSMISSION INC | ASSIGNMENT | 651 | 137 |
| į | | | | | DOMINION APPALACHIAN DEVELOPMENT LLC | DOMINION TRANSMISSION, INC. | ASSIGNMENT | 651 | 225 |
| - 1 | | | | | DOMINION TRANSMISSION INC | CONSOL ENERGY HOLDINGS LLC XVI | ASSIGNMENT | 651 | 318 |
| ł | | | | | CONSOL ENERGY HOLDINGS LLC XVI | CONSOL GAS COMPANY | MERGER/NAME CHANGE | wvsos | |
| | i | | | | CONSOL GAS COMPANY | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | 9 | 471 |
| l | | | | | CONSOL GAS COMPANY | CNX GAS COMPANY LLC | MERGER/NAME CHANGE | wvsos | |
| 1 | | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | 1 |
| | | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| | | FK065107 | 03-005C-0036-0000 | Q100440000 | M. I. METHENY AND M. G. METHENY, HER HUSBAND | HOPE NATURAL GAS COMPANY | NOT LESS THAN 1/8 | 226 | 189 |
| | | | | | HOPE NATURAL GAS COMPANY | CONSOLIDATED GAS SUPPLY CORPORATION | CONFIRMATORY DEED | 294 | 89 |
| | | | | | CONSOLIDATED GAS SUPPLY CORPORATION | CONSOLIDATED GAS TRANSMISSION CORPORATION | ASSIGNMENT | 425 | 127 |
| | | | | | CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION | MERGER/NAME CHANGE | wvsos | |
| | | | | | CNG TRANSMISSION CORPORATION | DOMINION TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | _ |
| | | | | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC | MEMORANDUM OF FARMOUT AGREEMENT | 672 | 154 |
| | | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | LIMITED PARTIAL ASSIGNMENT (50%) | 684 | 57 |
| . / | | | | | DOMINION TRANSMISSION, INC. | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%) | 712 | 848 |
| V | 39 | | | | CNX GAS COMPANY LLC | NOBLE ENERGY, INC. | ASSIGNMENT | 717 | _1 |
| | | | | | NOBLE ENERGY, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT | 722 | 170 |
| ı | | | | | DOMINION TRANSMISSION, INC. | DOMINION ENERGY TRANSMISSION, INC. | MERGER/NAME CHANGE | wvsos | |
| | | | | | - | | SECOND AMENDMENT TO MEMORANDUM OF | | |
| ļ, | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 723 | 499 |
| | | | | | | | THIRD AMENDMENT TO MEMORANDUM OF | | l |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | FARMOUT AGREEMENT | 734 | 558 |
| | | | | | DOMINION ENERGY TRANSMISSION, INC. | HG ENERGY II APPALACHIA, LLC | ASSIGNMENT (68%) | 736 | 220 |



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

November 8, 2021

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

RE: Drilling Under Roads - Burnside 1214 S-5H

Freemans Creek District, Lewis County

West Virginia

Dear Mr. Blevins:

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Burnside 1214 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the Burnside 1214 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

Should you have any questions or desire further information, please contact me at dwhite@hgenergyllc.com or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

| *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL OR NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | Date of Notic | e Certification: 05/07/2021 | API | No. 47 | | | |
|--|---|--|---|--|---|--|--|
| Notice has been given: Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Form below for the tract of land as follows: State: West Virginia County: Lewis District: Freemans Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) threquirements of subsections (b), section sixteen of this article were waived in writing by the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) threquirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of se of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED *PLEASE CHECK ALL THAT APPLY 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED *PLEASE CHECK ALL THAT APPLY **OPERATOR OF SEISMIC ACTIVITY OR NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED **PLEASE CHECK ALL THAT APPLY **OPERATOR OF SEISMIC ACTIVITY OR NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED **PLEASE ATTACH **OPERATOR O | | | | | | | |
| Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Formbelow for the tract of land as follows: State: West Virginia Country: Lowis District: Freemans Creek Quadrangle: Camden WV 7.5's Watershed: Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) th requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: Pursuant to West Virgi | | | Well | Pad Name: Burnside | e Well Pad | | |
| State: | Pursuant to th | e provisions in West Virginia Code § | 22-6A, the Operator has provided | the required parties w | vith the Notice Forms listed | | |
| County: Lew/s District: Freemans Creek Public Road Access: Generally used farm name: Mare Run Road / CR 10/9 Burnside Public Road Access: Generally used farm name: Burnside Burnside Middle West Fork Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this art information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of second that the Operator has properly served the required parties with the following: Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED SECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | | | Easti | ng: 541244.7 | | | |
| District: Freemans Creek Quadrangle: Canden WY 7.5's Generally used farm name: Burnside Watershed: Middle West Fork Creek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this art information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) th requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of second this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE RECEIVED/NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED/NOT REQUIRED BECAUSE RECEIVED/NOT REQUIRED BECAUSE RECEIVED/NOT REQUIRED BECAUSE RECEIVED/NOT REQUIRED BECAUSE RECEIVED/NOT REQUIRED BECAUSE RECEIVED/N | | | | | | | |
| Quadrangle: Watershed: Middle West Fork Croek Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this art information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of second this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED PRECEIVED/ NOT REQUIRED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NO NOT REQUIRED NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | | | | | CR 10/9 | | |
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| prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this art information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of set of this article have been completed by the applicant. Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED Or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | - | Middle West Fork Creek | | | | | |
| that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED Or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | prescribed by it has provide information re of giving the requirements Virginia Code | the secretary, shall be verified and shed the owners of the surface described equired by subsections (b) and (c), securface owner notice of entry to surface subsection (b), section sixteen of \$22-6A-11(b), the applicant shall the | all contain the following informati ed in subdivisions (1), (2) and (4 ction sixteen of this article; (ii) that vey pursuant to subsection (a), so this article were waived in writing ander proof of and certify to the sec | ion: (14) A certification, subsection (b), section the requirement was action ten of this arting by the surface ov | on from the operator that (inction ten of this article, the deemed satisfied as a resulcle six-a; or (iii) the notice wher; and Pursuant to Wes | | |
| □ 1. NOTICE OF SEISMIC ACTIVITY OF □ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED □ 2. NOTICE OF ENTRY FOR PLAT SURVEY OF □ NO PLAT SURVEY WAS CONDUCTED □ 3. NOTICE OF INTENT TO DRILL OF □ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF WAS CONDUCTED OF □ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | that the Ope | rator has properly served the required | | otice Certification | OOG OFFICE USE | | |
| ■ 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | 1. NOT | TICE OF SEISMIC ACTIVITY or | • | | | | |
| NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) | ■ 2. NO | TICE OF ENTRY FOR PLAT SURV | EY or D NO PLAT SURVEY W | 'AS CONDUCTED | ☐ RECEIVED | | |
| (PLEASE ATTACH) | ■ 3. NO | TICE OF INTENT TO DRILL or | NOTICE OF ENTRY FOR PLAT | | ☐ RECEIVED/ NOT REQUIRED | | |
| | | | | URFACE OWNER | | | |
| 4. NOTICE OF PLANNED OPERATION | ■ 4. NO | TICE OF PLANNED OPERATION | | | ☐ RECEIVED | | |
| ■ 5. PUBLIC NOTICE | ■ 5. PUE | BLIC NOTICE | | | RECEIVED | | |
| ■ 6. NOTICE OF APPLICATION □ RECEIVED | ■ 6. NO | TICE OF APPLICATION | | | ☐ RECEIVED | | |

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Diane White , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

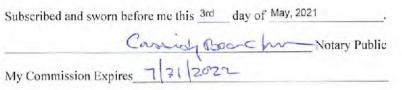
 Well Operator:
 HG II Appalachia, LLC
 Address:
 5260 Dupont Road

 By:
 Diane White
 Diane White
 Parkersburg, WV 26101

 Its:
 Agent
 Facsimile:
 304-863-3172

 Telephone:
 304-420-1119
 Email:
 dwhite@hgenergyllc.com





Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

WW-6A (9-13)

| API NO. 47 | | |
|----------------|------------|-------------------------|
| OPERATOR WE | ELL NO. | Burnside 1214 N1H - S6H |
| Well Pad Name: | Burnside 1 | 214 |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

| Notice Time Requirement: notice shall be provided no later that | in the filing date of permit application. |
|--|---|
| Date of Notice: 07/01/21 Date Permit Application Filed: 7/01 Notice of: | /21 |
| PERMIT FOR ANY WELL WORK CONSTRUCTION OF | PROVAL FOR THE AN IMPOUNDMENT OR PIT |
| Delivery method pursuant to West Virginia Code § 22-6A-10 | (b) |
| | OD OF DELIVERY THAT REQUIRES A IPT OR SIGNATURE CONFIRMATION |
| certificate of approval for the construction of an impoundment or p registered mail or by any method of delivery that requires a receipt sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be loc oil and gas leasehold being developed by the proposed well work, i described in the erosion and sediment control plan submitted pursu operator or lessee, in the event the tract of land on which the well p more coal seams; (4) The owners of record of the surface tract or tr well work, if the surface tract is to be used for the placement, const impoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than thresubsection (b) of this section hold interests in the lands, the application of this article to the contrary, notice to a lien holder is not reversion of this article to the contrary, notice to a lien holder is not reversion. | or signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the f the surface tract is to be used for roads or other land disturbance as ant to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed ruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to d (6) The operator of any natural gas storage field within which the se tenants in common or other co-owners of interests described in ant may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any a notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any |
| ☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice | |
| SURFACE OWNER(s) | COAL OWNER OR LESSEE Name: NA |
| Name: John Kent Burnside (pad, road, water) Address: 645 Mare Run Road | Address: |
| Weston, WV 26452 | 11001000. |
| Name: Bertha Benedum (pad, road, water) | COAL OPERATOR |
| Address: 604 Mare Run Road | Name: NA |
| Weston, WV 26452 | Address: |
| SURFACE OWNER(s) (Road and/or Other Disturbance) | TO A STATE OF A STATE |
| Name: | SURFACE OWNER OF WATER WELL |
| Address: | AND/OR WATER PURVEYOR(s) Name: Karina Rowe |
| Nome | Address: 1148 Mare Run Road |
| Name: | Weston, WV 26452 |
| Audi voo. | OPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| SURFACE OWNER(s) (Impoundments or Pits) | Name: Dominion Energy Transmission - Attn: Ronald Waldren |
| Name: | Address: 925 White Oaks Blvd |
| Address: | Bridgeport, WV 26330 |
| | *Please attach additional forms if necessary |

| API NO. 47 | |
|------------------------|---------------------------|
| OPERATOR WELL NO |). Numsida 1211 HIH - 56H |
| Well Pad Name: Dumside | 1214 |

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the crusion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W, Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-

OPERATOR WELL NO. Burnside 1214 N1H - S6H

Well Pad Name: Burnside 1214

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief. Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47OPERATOR WELL NO. Burnoide 1214 NIH - S6H
Well Pad Name: Burnside 1214

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A (8-13) API NO. 47-____OPERATOR WELL NO. Burnside 1214 N111-38H
Well Pad Name: Burnside 1214

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenergyllc.com

Diane White

Address: 5260 Dupont Road

Parkersburg, WV 26101

Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



| Subscribed and sworn before me thisist day ofJuly | ,2021 |
|---|---------------|
| Carady Boadon | Notary Public |
| My Commission Expires 7 31 2027 | |



July 1, 2021

John Kent Burnside 645 Mare Run Road Weston, WV 26452

RE:

Burnside 1214 N-1II - S-6H Well Work Permit Applications - Notification

Freemans Creek District, Lewis County

West Virginia

Dear Sir:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours, Diane White

Diane C. White



July 1, 2021

Bertha Benedum 604 Mare Run Road Weston, WV 26452

RE:

Burnside 1214 N-1H to S-6H Well Work Permit Application - Notification Freemans Creek District, Lewis County

West Virginia

Dear Ms. Rowe:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours, Diane White

Diane C. White



July 1, 2021

Dominion Energy Transmission Attn: Ron Walden 925 White Oaks Blvd Bridgeport, WV 26330

RE:

Burnside 1214 N-1H to S-6H Well Work Permit Application - Notification

Freemans Creek District, Lewis County

West Virginia

Dear Sir:

Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White



July 1, 2021

Karina Rowe 1148 Mare Run Road Weston, WV 26452

RE:

Burnside 1214 N-1H to S-6H Well Work Permit Application - Notification Freemans Creek District, Lewis County

West Virginia

Dear Ms. Rowe:

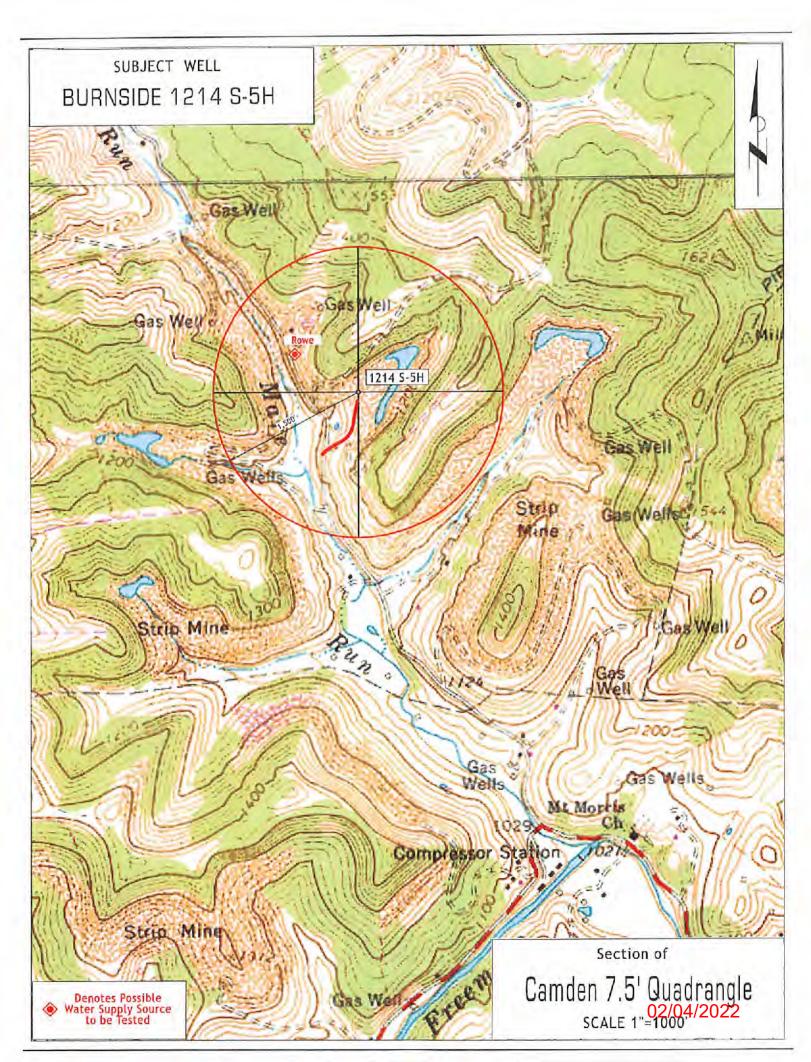
Enclosed are copies of various application papers that we will be filing with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a surface owner (road) are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours, Diane White

Diane C. White



Diane White

From: Diane White

Sent: Friday, October 16, 2020 2:56 PM

To: Vicki Hoops

Subject: Pre-Drill Water Sampling/Testing for the Burnside 1214 Well Pad

Vicki,

Can you please have the following water sources sampled and tested for pre-drill parameters? The pad is in Lewis county, Freemans Creek district, Camden quadrangle and Middle West Fork Creek watershed.

John and Phillip Burnside, 645 Mare Run Road, Weston, WV 26452 304-203-4091 Karina Rowe, 1148 Mare Run Road, Weston, WV 26542 304-904-6727

Please have the paperwork identified to the Burnside 1214 well pad. Thank You,
Diane

Diane C. White



HG Energy, LLC

5260 Dupont Road
Parkersburg, WV 26101
304-420-1119 (O)
304-482-0108 (C)
dwhite@hgenergyllc.com
https://hgenergyllc.com



Sturm Environmental Services

COMPANY:

H.G. ENERGY, LLC.

DATE TIME SAMPLED:

11-04-20 1245

SAMPLE ID:

KARINA ROWE SPRING 1

DATE TIME RECEIVED:

11-04-20 1500

SAMPLED BY: L. GARLITZ

LABORATORY ID:

HG 201104-2

| PARAMETER | TEST RESULTS | UNITS | METHOD | METHOD DETECTION LIMIT | MINIMUM REPORTING LIMIT | DATETIME ANALYZED | ANALYST |
|------------|-----------------|-------|------------------------------|------------------------------|-------------------------------|----------------------|---------|
| FLOW | 2 | gpm | 1.4.000 | | | 11-04-20 1245 | LG |
| FIELD pH | 8.0 | units | | | | 11-04-20 1245 | LG |
| FIELD TEMP | 14 | "C | 14 7 7 7 | | | 11-04-20 1245 | LG |
| FIELD COND | 850 | µmhos | | | | 11-04-20 1245 | LG |
| рН О | 7.2 | units | SM 22 nd 4500 H B | .1 | 2,-10, | 11-05-20 1216 | HN |
| Fe | 14.0 | mg/L | EPA 200.7 Rev 4.4-1994 | .05 | .25 | 11-05-20 1503 | DB |
| TDS | 523 | mg/L | USGS I-1750-85 | 4 | 4 | 11-05-20 1001 | MRM |
| CI- | 1.17 | mg/L | EPA 300.0 Rev 2.1-1993 | 1.0 | 1.0 | 10-06-20 1600 | KS |
| MBAS | U | mg/L | SM22 nd 5540C | .02 | .04 | 11-04-20 2128 | SW |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

*Client Provided

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136-141 compliance.
- This result is not supported by our certification ID.
- A Does not meet 40 CFR 136 141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved Dough & Bunto

^{**}See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted Data Qualifiers

STURM ENVIRONMENTAL SERVICES

STURM ENVIRONMENTAL BRUSHY FORK ROAD BRIDGEPORT, WV 26330 PHONE: 304-623-6549 FAX: 304-623-8552 STURM ENVIRONMENTAL SERVICES 610 D STREET SO. CHARLESTON, WV 25303 PHONE: 304-744-9864 FAX: 304-744-7866

| SERVICE | 9 | | | | | | | | | | | | | | | | | | N | IAILIN | G ADD | RESSE | S ARE | LIST | ED | BELOW | | | PG 1 OF 2 | 2 |
|-------------------------|------------|----------------|----------|-------------|----------|----------|-------|--------|-------|---------------|-------------|------------------|-------------|----------------|--------|------------------|-----------|-------|---------|---------------------|---------|------------|------------|-------|-----------|------------------------------------|--------------------|----------|--|-------------------------------------|
| REPORT TO: Client Name: | HG EN | ERGY | | | | | | | | В | ILL | TO: | Clie | nt N | ame | : | | | | | | | | | | | | _ | | |
| Address: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City/State/Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Person: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Telephone Numbers | | | | | | | | | | | T | elepi | hone | Nun | nber | : | | | | | FA | х | | | | | | _ | | |
| Email Address: | | | | | | | | | | | | E | mall | Add | ress | : | | | | | | | | | | | | _ | | |
| Sampler Name: (Print) | LARRY | GARLI | TZ | | | | | | | | | Purc | hasi | Ord | der# | : | | | | | | | | | | | | | | |
| Sampler Signature | 7 | | | _ | | | | | | | TUF | N A | ROU | ND T | TIME | : | 5 | tanda | rd | | | | | | | | | 1 DAY | 2 DAY | 3 DAY |
| Project Name: | Bumsic | te 1214 | Well Pa | d | | | | | | | | | | | | | R | USH (| pre-sci | heduled, | uncharg | es may app | oly) Plea | ise C | hec | k One | | | | |
| Special Reporting: | | Email F | Results | | | Fax Resi | ults | | | | | | | | | | _ | | D | ate Need | ed | | | | | | | | | |
| | C | OMPOSI | TE SAM | PLE | GRAB ! | SAMPLE | | PRE | SERV | VATIV | | | | MAT | RIX | I | | - | Al | NALYZE | FOR: | | | | | | | | | - |
| | START DATE | START TIME | END DATE | END TIME | DATE | TIME | Ica | OTHER | HCI | 1,50, Plastic | 4,SO, Glass | 1NO ₃ | Sroundwater | Drinking Water | Sludge | Other (specify): | reduil | | | REQUENCY | | | of Bottles | | riald phi | Flow (gpm, cfs, mgd) circle one | Field Conductivity | Field DO | Field Chlorine(mg/L or ug/L) circle one | Field Temp (F' or C') circle one |
| Sample ID / Description | 72 | Į, | iii | m m | | F | | 6 | 1 | - | 1 2 | + | 9 | 10 | 45 | | | + | - | - 11 | - | H | 31 | | | E 5 | | ii. | E 5 | |
| Karina Rowe well | _ | | | | 11/4/20 | 1200 pm | X | _ | H | - | + | H | - | + | - | + | × | + | - | - | - | H | 3 | 1 | .1 | | 1494 | - | | 24.7 |
| Karina Rowe Spring 1 | | | | | 11/4/20 | 1245 pm | Н | | H | - | - | + | - | 1 | + | H | + | + | - | - | - | | 3 | 1 | 0.1 | 2 | 850 | | | 14 |
| Karina Rowe Sprint 2 | | | | | 11/4/20 | 127 pm | | | | | + | | + | \parallel | | \parallel | | | | | | | 3 | 7 | .9 | 2 | 847 | | | 13.1 |
| | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| | | | | | | | H | | H | | + | H | + | \parallel | + | | + | | _ | | | | | 1 | | | | | | |
| Comments | | | | | Rei | cords re | taine | ed for | 5 ye. | ars | | | | -1,6 | | | | | Temp | erature es Prese | Upon R | eceip: | < | 0 | | | N | • | | |
| Relinquished | | late 1/2020 | | ime 5 00 | Received | | | | - | 1 | | | | Da | 1-20 | 013 | ome 30 | | | | | | | | | | | | | |
| Relinquished by: | 0 | late | 7 | ime | Received | l by: | | | | | | | | Da | ate | 1 | ima | | | | | | | | | | | | | |

WW-6A3 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

| | quirement. Notice shall be prov | ided at least s | SEVEN (7) day | s but no more than | 1 FORTY-FIVE (45) days prior to |
|--|---|---|--|---|---|
| entry Date of Notice: | 10/21/2020 Date of Plan | ned Entry: | 10/28/2020 | | |
| Delivery metho | d pursuant to West Virginia Co | ode § 22-6A- | 10a | | |
| DEDEONA | L 🗆 REGISTERED | ■ MET | HOD OF DELI | VERY THAT RE | OHIRES A |
| ☐ PERSONA SERVICE | MAIL | | | ATURE CONFIR | |
| | | | | | |
| on to the surface but no more than beneath such tra- owner of minera and Sediment Co Secretary, which | tract to conduct any plat surveys in forty-five days prior to such ent ct that has filed a declaration pur- ils underlying such tract in the co- control Manual and the statutes an | required pur ry to: (1) The suant to section unty tax reco d rules relate information, | rsuant to this art e surface owner on thirty-six, art ords. The notice d to oil and gas | icle. Such notice s of such tract; (2) t icle six, chapter to shall include a sta exploration and p | shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal scams wenty-two of this code; and (3) any attement that copies of the state Erosion roduction may be obtained from the age on the Secretary's web site, to |
| Notice is hereby | y provided to: | | - | | |
| SURFACE | OWNER(s) | 13 | ☐ COAL | OWNER OR LE | SSEE |
| Name: John an | nd Phillip Burnside (pad, royally owner) | - (| Name: N | 4 | |
| . raurebb. | re Run Road | | Address: | | |
| -77 | , WV 26452 | | | | |
| - taino. | Benedum | - | To some | DAL OWNER/A | |
| riddi 035. | re Run Road V | - | | RAL OWNER(s) | |
| | WV 26542 | | | ertha & Eric Benedum | Cynthia Sumpter /3297 Sycamore Lick Road |
| Name:Address: | | - | | 04 Mare Run Road Veston, WV 26542 | Jane Lew, WV 26378 |
| Address. | | - | | additional forms if ne | |
| | | _ | | | |
| a plat survey on | by given: st Virginia Code § 22-6A-10(a), r the tract of land as follows: //est Virginia | notice is herel | | | l operator is planning entry to conduct |
| Pursuant to Wes a plat survey on State: | st Virginia Code § 22-6A-10(a), r the tract of land as follows: | notice is here | | undersigned wel | |
| Pursuant to Wes a plat survey on State: Western Learning | st Virginia Code § 22-6A-10(a), r the tract of land as follows: /est Virginia | notice is herel | Approx. Latitu | undersigned wel | 39 119010 & 80.522974 |
| Pursuant to Wes a plat survey on State: Western County: Le District: F | st Virginia Code § 22-6A-10(a), r the tract of land as follows: Vest Virginia ewis | notice is herel | Approx. Latite Public Road A | undersigned wel de & Longitude: ccess: | 39 119010 & 80.522974 Mare Run Road / CR10/9 |
| Pursuant to Wes a plat survey on State: Western Market Mar | st Virginia Code § 22-6A-10(a), rethe tract of land as follows: Vest Virginia ewis reeman's Creek amden WV 7.5' ate Erosion and Sediment Control of from the Secretary, at the WV E 25304 (304-926-0450). Copies ne Secretary by visiting www.der | l Manual and Department of of such docu | Approx. Latitu Public Road A Watershed: Generally used the statutes and f Environmental uments or additi | e undersigned well de & Longitude: ceess: I farm name: rules related to o Protection headq anal information r | 39 119010 & 80.522974 Mere Run Road / CR10/9 Middle West Fork Creek |
| Pursuant to Wes a plat survey on State: Western County: Le District: Foundarangle: Copies of the stamay be obtained Charleston, Western Charleston | st Virginia Code § 22-6A-10(a), rethe tract of land as follows: Vest Virginia ewils reeman's Creek amden WV 7.5° ate Erosion and Sediment Control from the Secretary, at the WV II 25304 (304-926-0450). Copies are Secretary by visiting www.dep | l Manual and Department of of such docu | Approx. Latitu Public Road A Watershed: Generally used the statutes and f Environmental uments or additi and-gas/pages/d | e undersigned well de & Longitude: ecess: I farm name: rules related to o Protection headq onal information refault.aspx. | Mare Ron Road / CR10/9 Middle West Fork Creek Burnside il and gas exploration and production uarters, located at 601 57 th Street, SE, related to horizontal drilling may be |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



May 7, 2021

RE:

Burnside 1214 N-1H thru S-6H

Freeman's Creek District, Lewis County

West Virginia

Dear Royalty Owner

Enclosed is a copy of a Department of Environmental Protection "Notice of Entry For Plat Survey" form WW-6A3. This notice is provided to you as a royalty owner to advise you that HG Energy II Appalachia, LLC, is beginning the process of applying for permits to drill a well(s) where you are identified as an owner of minerals underlying such tract in the county tax records. A well work permit application will be filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because you are an owner of mineral rights on one or more of the underlying leases impacted by this well (s). Statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WVDEP at 304-926-0450, located at 601 57th Street, Charleston, WV. Copies of such documents or additional information related to horizontal drilling may also be obtained by visiting the WV DEP online.

No action on your part is required. If you have any questions or comments regarding this permit application, you may call this office at (304) 420-1119. Questions concerning lease issues may be directed to Mark Schall at 304-420-1115. Address inquiries should be directed to Bethanne Wilson at 304-370-3246.

Very truly yours,

Diane White

Diane C. White

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

| Notice Time I Date of Notice | Requirement: Notice shall be provided a | t least TEN (10) days prior to filing a rmit Application Filed: 07/23/2021 | permit application. |
|---|--|--|---|
| Delivery meth | od pursuant to West Virginia Code § | 22-6A-16(b) | |
| ☐ HAND | ■ CERTIFIED MAIL | | |
| DELIVE | | OUESTED | |
| receipt request drilling a horiz of this subsect subsection may and if available Notice is her Name: Address: Notice is her Name: Address: | ed or hand delivery, give the surface ow contal well: <i>Provided</i> , That notice given ion as of the date the notice was provided be waived in writing by the surface ow e, facsimile number and electronic mail at eby provided to the SURFACE OV on Kent Burnslde 5 Mare Run Road eston, WV 26452 eby given: | ner notice of its intent to enter upon the pursuant to subsection (a), section to do to the surface owner: Provided, hower. The notice, if required, shall includdress of the operator and the operator with the operator and the operator and the operator and the operator and the operator and the operator with the operator of the operator and the operator of the opera | n pad52 |
| the surface ow | ner's land for the purpose of drilling a ho | orizontal well on the tract of land as for | |
| State: | West Virginia | — UTM NAD 83 Easting: | 541229.9 |
| County: | Lewis | Northing: | 4330086.3 Mare Run Road/CR 10/9 |
| District: | Freemans Creek Camden WV 7.5' | Public Road Access: | Burnside |
| Quadrangle: Watershed: | Middle West Fork Creek | Generally used farm name: | Durnside |
| Pursuant to W facsimile num related to hori | ber and electronic mail address of the zontal drilling may be obtained from th | operator and the operator's authorize e Secretary, at the WV Department of | ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. |
| Notice is her | reby given by: | | |
| Well Operator | : HG Energy II Appalachia, LLC | Authorized Representative: | Diane White |
| Address: | 5260 Dupont Road | Address: | 5260 Dupont Road |
| | Parkersburg, WV 26101 | | Parkersburg, WV 26101 |
| Telephone: | 304-420-1119 | Telephone: | 304-420-1119 |
| Email: | dwhite@hgenergyllc.com | Email: | dwhite@hgenergyllc.com |
| Facsimile: | 304-863-3172 | Facsimile: | 304-863-3172 |
| 2220 4012 | | | |

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

WW-6A5 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

| | ce Time R of Notice | equirement: notice shal | l be provided no Date Permit A _l | o later than the filing pplication Filed: 67/2 | date of permit 9/2021 | application. |
|--|---|--|--|--|---|--|
| Deli | very meth | od pursuant to West Vi | rginia Code § 2 | 22-6A-16(c) | | |
| | CERTIFI | IED MAIL | | HAND | | |
| | | N RECEIPT REQUESTE | ED | DELIVERY | | |
| retur the prequidrillidams (d) T | n receipt receipt receipt receipt operation of a hear ages to the | equested or hand deliver peration. The notice req provided by subsection (lorizontal well; and (3) A surface affected by oil a | y, give the surfa uired by this su b), section ten o proposed surfa nd gas operation | ace owner whose land ubsection shall inclu- of this article to a surf- ace use and compens as to the extent the da | I will be used for de: (1) A copy ace owner whost sation agreement amages are com- | cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the nt containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time |
| (at th | ne address | by provided to the SUR listed in the records of the Kent Burnside | FACE OWNED the sheriff at the t | R(s) time of notice): Name: | Bertha Benedum | / |
| Nan | | so Pun Poor | | Addres | s: 604 Mare Run Ros | ad |
| | ress: 645 Ma | are Muli Nodu | | | | |
| Add | ce is herel | n, WV 26452 by given; | A-16(c) notice | | Weston, WV 26457 | |
| Noti Purs oper State Cou | Westor ice is herel uant to We ation on the e: nty: | by given; est Virginia Code § 22-6, he surface owner's land t West Virginia Lewis Freemans Creek | A-16(c), notice in the purpose c | is hereby given that the following a horizonta UTM NAD 8 Public Road | he undersigned al well on the tra Easting: Northing: Access: | well operator has developed a planned act of land as follows: 541229.9 4330086.3 Mare Run Road / CR 10/9 |
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacvofficer@wv.gov.

HG Energy II Appalachia, LLC List of Frac Additives by Chemical Name and CAS # Burnside 1214 Well Pad (N-1H to N-3H, S-4H to S-6H)

| | | T |
|--------------------------------|-------------|------------------|
| Chemical Name | CAS# | Multiple CAS #'s |
| Pro Shale Slik 405 | Mixture | 68551-12-2 |
| | | 7647-14-5 |
| | | 12125-02-9 |
| | | 64742-47-8 |
| Pro Hib II | Mixture | 68412-54-4 |
| 710 1110 11 | - Winter C | 68607-28-3 |
| | | 107-21-1 |
| | | 111-76-2 |
| | | 67-56-1 |
| | | 107-19-7 |
| Silica Sand and Ground Sand | Mixture | 14808-60-7 |
| Silica Saria aria Grouna Saria | IVIIACUIE | 1344-28-1 |
| | | 1309-37-1 |
| | | 13463-67-7 |
| Hydrochloric Acid 22 DEG BE | 7647-01-0 | |
| PROGEL - 4.5 | 64742-96-7 | |
| BIO CLEAR 2000 | Mixture | 25322-68-3 |
| | - Innear C | 10222-01-2 |
| SCALE CLEAR SI 112 | 107-21-1 | |
| PROBREAK 4 | Mixture | 57-50-1 |
| THOUSE IN T | - Innearc | 107-21-1 |
| Sulfamic Acid | 5329-14-6 | |
| PRO - Flow - 102-N | Mixture | 67-63-0 |
| | | 68439-45-2 |
| | | 2687-96-9 |
| PROGEL - 4 | 9000-30-0 | |



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Byrd E. White, III Secretary of Transportation/ Commissioner of Highways

November 6, 2020

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Burnside 1214 Pad, Lewis County Burnside 1214 S-5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2020-0357 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 10/9 SLS MP 0.931.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Dary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Diane White

HG Energy, LLC. CH, OM, D-7

File

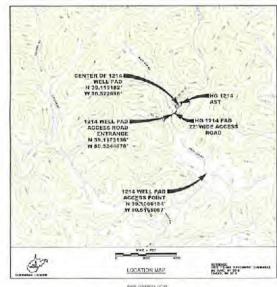
CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1214 WELL PAD

| 1 TITLE SHEET 2A-2C SITE DEVELOPMENT PLANS 3 WELL PAIL SECTIONS 4A ACCESS ROAD SECTIONS |
|--|
| 3 WELL PAD SECTIONS |
| |
| 4A ACCESS ROAD SECTIONS |
| |
| SA-SI CONSTRUCTON NOTES & DETAILS |
| 6B-5C RESTORATION PLAN |
| 7 PROPERTY NAP |

CONSTRUCTION SEQUENCE

- Prior to commencement of any earn disturbance abovity including cleaning and grubbing, the registers that call. West Virgin a 811 by delibing 811 or 140/0245-4845 to identify all utility lines. The registrant state must clearly delibed to expensive areas, incortain forcet building boundaries, the limits of dearting, and trees that are to be conserved within the project disk, and shall including appropriate barriers where equipment may not be parked, stagled, deveated or located for any purpose.
- Site access. This is the first land-distribution activity to take place at the site and should provide BMPs to take place at the site and should provide BMPs to minimize scolerance accelerance to the site, construction the following press, entrance to the site, construction reuties, and areas designated for equipment or other use at the site including parking, stockples.
- 3 Sedment Terriers Install permeter BMPs after the construction site is accessed, keeping associated dispring and grubbing limited to only that a mount required for installing permeter 3MPs.
- 4 Land Clearing and Grading Implement dearing and grading only after all downslope E.S. BMPs have been constructed and stabilized.
- 5 Surface Stabilization Apply temporary or permanent stabilization measures immediately to any disturbed ureas where with has reached find grade, has been delayed or officially temporarily suspended.
- delayed or of leaving temporarily suspended, 8. Construction of Buildings, Utilities, and Paving—During construction, install and maintain any additional erosion and sed ment control BMPs, and implement any structural post construction stormwater BMPs that may
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil coment.
- 8. Final Stabilization, Toppoling, Trees and Shrubs After construction is completed, insati stabilization BMI** including permanent secting, multining and notage, and complete implementation of stormwater BMPs in this test construction phase. Stabilize all open areas, including borrow and spoil areas, and crimove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.

FREEMANS CREEK DISTRICT LEWIS COUNTY WEST VIRGINIA



PREPARED FOR HG ENERGY II APPALACHIA, LLC

5260 DUPONT ROAD PARKERSBURG, WEST VIRGINA 26101 (304) 420-1100

PENN ENVIRONMENTAL & REMEDIATION, INC.

111 RYAN COURT PHTSBURCH, PA 15205 (412) 722-1222

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| 1214 WELL PAD ACCESS POINT | N 39.1066164 | W 80.5165087 |
| 1214 WELL PAD ACCESS ROAD ENTRANCE | N.39.1173136 | W 80,5244578 |

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APPROVED WVDEP OOG 12/11/2020

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TILE SHEET

HG 1214 PAD FREEMANS CREEK DISTRICT LEWIS COUNTY, WEST VIRGINIA

HG ENERGY II AFPALACHIA, LLC PARKERSBURG, WEST VIRGINIA

HEXED MEP 10/08/20
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HANN SAN 10/08/20
HANNE HOWER

PAODS 129-001

SHEET 1

800.245.4848

WEST VIRGINIA

YOU DIG!

 DEMANDE LIFERTY LIPED AND NOT DELOTHER OF PLEASE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION WASHINGTON MEMBERS AND PERSONNEL DESIGNATION OF SOME CONTRACT DESIGNATION.

CO-PAGGRISO HG 1214\DRAWHGS\PAGGRISO HG 1214 WILL PAG = TTLE SHIELDWG.1G/12/203

