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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, September 25, 2019  
WELL WORK PERMIT  
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for NUTTER 1208 S-9H  
47-033-05966-00-00

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 casing. 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: NUTTER 1208 S-9H  
Farm Name: LINDA & WILLIAM W. BROOKS  
U.S. WELL NUMBER: 47-033-05966-00-00  
Horizontal 6A New Drill  
Date Issued: 9/25/2019

Promoting a healthy environment.

# 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.

## CONDITIONS

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1. 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.

## 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](mailto:DEPOOGNotify@wv.gov).

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

- 1) Well Operator: HG Energy II Appalachia, L

|                  |                 |              |                          |
|------------------|-----------------|--------------|--------------------------|
| <u>494519932</u> | <u>Harrison</u> | <u>Union</u> | <u>West Milford 7.5'</u> |
|------------------|-----------------|--------------|--------------------------|

  
Operator ID County District Quadrangle
- 2) Operator's Well Number: Nutter 1208 S-9H Well Pad Name: Nutter 1208
- 3) Farm Name/Surface Owner: Nutter Public Road Access: SR 19
- 4) Elevation, current ground: 1162' Elevation, proposed post-construction: 1147'
- 5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
 Other \_\_\_\_\_  
 (b) If Gas Shallow  Deep \_\_\_\_\_  
 Horizontal
- 6) Existing Pad: Yes or No No
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus at 7013'/7064' and 51' in thickness. Anticipated pressure at 4314#.
- 8) Proposed Total Vertical Depth: 7050'
- 9) Formation at Total Vertical Depth: Marcellus
- 10) Proposed Total Measured Depth: 23,130'
- 11) Proposed Horizontal Leg Length: 15,522'
- 12) Approximate Fresh Water Strata Depths: 135', 500'
- 13) Method to Determine Fresh Water Depths: Nearest offset well data
- 14) Approximate Saltwater Depths: 1299', 1675'
- 15) Approximate Coal Seam Depths: 810' to 815'
- 16) Approximate Depth to Possible Void (coal mine, karst, other): None
- 17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No
- (a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
 Depth: \_\_\_\_\_  
 Seam: \_\_\_\_\_  
 Owner: \_\_\_\_\_

*SDW  
7/9/19*

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**JUL 12 2019**  
 WV Department of  
 Environmental Protection

WW-6B  
(04/15)

API NO. 47-33 - 05964  
 OPERATOR WELL NO. Nutter 1208 S-9H  
 Well Pad Name: Nutter 1208

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                     | 915' 1000'                 | 650' 1000'                   | CTS                           |
| Intermediate 1   | 13 3/8"   | NEW         | J-55  | 68                     | 1900'                      | 1900'                        | CTS                           |
| Intermediate 2   | 9 5/8"    | NEW         | J-55  | 40                     | 2700'                      | 2700'                        | CTS                           |
| Production       | 5 1/2"    | NEW         | P-110 | 23                     | 23130'                     | 23130'                       | CTS                           |
| Tubing           |           |             |       |                        |                            |                              |                               |
| Liners           |           |             |       |                        |                            |                              |                               |

SDW  
8/26/2019

| TYPE         | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type     | Cement Yield (cu. ft./k)                 |
|--------------|-----------|------------------------|---------------------|----------------------|--|-----------------|--|
| Conductor    | 30"       | 30"                    | .500                |                      |  |                 | Drilled In                               |
| Fresh Water  | 20"       | 26"                    | .438                | 2110                 | 1200                                     | Type 1, Class A | 40% excess yield = 1.20, CTS             |
| Coal/Storage | 13 3/8"   | 17 1/2"                | .480                | 3450                 |  | Type 1/Class A  | Lead 40% excess, Tail 0% excess          |
| Intermediate | 9 5/8"    | 12 1/4"                | .395                | 3950                 |  | Type 1/Class A  | Lead 40% excess, Tail 0% Excess          |
| Production   | 5 1/2"    | 8 1/2"                 | .415                | 16240                | 12000                                    | Type 1/Class A  | 20% excess yield = 1.10, tail yield 1.50 |
| Tubing       |           |                        |                     |                      |  |                 |  |
| Liners       |           |                        |                     |                      |  |                 |  |

PACKERS

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

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AUG 28 2019

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Environmental Protection



WW-6B  
(10/14)

API NO. 47- 33 - 05966  
OPERATOR WELL NO. Nutter 1208 S-9H  
Well Pad Name: Nutter 1208

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 7050 feet. Drill horizontal leg to estimated 15522 lateral length, 23,130 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 ECP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.420 acres

22) Area to be disturbed for well pad only, less access road (acres): 15.399 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.  
Freshwater - centralized every 3 joints to surface.  
Coal - Bow Spring on every joint, will also be running ECP for isolating storage zone.  
Intermediate - Bow Spring on first 2 joints then every third joint to 100' from surface.  
Production - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the curve.

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

Conductor - N/A. Casing to be drilled in w/ Dual Rotary Rig.  
Fresh Water - 15.6 ppg PNE-1 + 3% bwoc CaCl<sub>2</sub> 40% Excess Yield = 1.20, CTS  
Coal - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub> 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub> zero% Excess. CTS  
Intermediate - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub> 40% Excess. Tail: 15.9 ppg, PNE-1 + 2.5% bwoc CaCl<sub>2</sub> zero% Excess. CTS  
Production - Lead: 14.5 ppg POZ-PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170. Tail: 14.5 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.19, Tail Yield=1.94, CTS

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25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.  
Fresh Water - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.  
Coal - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.  
Intermediate - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.  
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

AUG 28 2019  
WV Department of  
Environmental Protection

\*Note: Attach additional sheets as needed.

33-05966



1208 S-9H  
Marcellus Shale Horizontal  
Harrison County, WV

| Ground Elevation |               | 1208 S-9H SHL               |  | 1208 S-9H LP   |  | 1208 S-9H BHL                |  | 1208 S-9H SHL  |   | 1208 S-9H LP  |   | 1208 S-9H BHL |   | 1208 S-9H SHL |   | 1208 S-9H LP |   | 1208 S-9H BHL |   |   |   |
|------------------|---------------|-----------------------------|--|--|--|------------------------------|--|--|---|---|---|---------------|---|---------------|---|--------------|---|---------------|---|---|---|
| Azim             |               | 1147°                       |  | 159.798°   |  | 1147°                        |  | 1147°  |   | 159.798°  |   | 1147°         |   | 159.798°      |   | 1147°        |   | 159.798°      |   |   |   |
| WELLBORE DIAGRAM | HOLE          | CASING                      | GEOLOGY  | TOP  | BASE   | MUD                          | CEMENT   | CENTRALIZERS   | CONDITIONING  | COMMENTS  |   |               |   |               |   |              |   |               |   |   |   |
| X                | 30"           | 30" 157.5# LS               | Conductor  | 0  | 120  | AIR                          | N/A, Casing to be drilled in w/ Dual Rotary Rig  | N/A  | Ensure the hole is clean at TD.   | Conductor casing = 0.5" wall thickness  | X | X             | X | X             | X | X            | X | X             | X | X |   |
| X                | 26"           | 20" 94# J-55                | Fresh Water<br>Kittanning Coal<br>Coal/Fresh Water Protection  | 0<br>810<br>0  | 135, 500<br>815<br>1000  | AIR                          | 15.6 ppg PNE-1 + 3% bwoc CaCl<br>40% Excess<br>Yield=1.20 / CTS  | Centralized every 3 joints to surface  | Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.   | Surface casing = 0.438" wall thickness<br>Burst=2110 psi  | X | X             | X | X             | X | X            | X | X             | X | X |   |
| X                | 17.5"         | 13-3/8" 68# J-55 BTC        | Little/Big Lime<br>Injun/Gantz (Storage)   | 1276 / 1317<br>1393 / 1680   | 1301 / 1393<br>1489 / 1740   | AIR / KCL<br>Salt<br>Polymer | Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<br>40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<br>zero% Excess. CTS   | Bow Spring on every joint<br><i>Will also be running ACP for isolating storage zone*</i> | Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.   | Intermediate casing = 0.480" wall thickness<br>Burst=3450 psi   | X | X             | X | X             | X | X            | X | X             | X | X |   |
| X                | 12.25"        | 9-5/8" 40# J-55 BTC         | Fifty / Thirty Fool<br>Gordon Stray / Gordon<br>5th Sand<br>Bayard Sand<br>Intermediate 2  | 1800 / 1880<br>1935 / 2000<br>2185<br>2275<br>0  | 1847 / 1892<br>2000 / 2090<br>2220<br>2310<br>2700   | AIR / KCL<br>Salt<br>Polymer | Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<br>40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<br>zero% Excess. CTS   | Bow Spring on first 2 joints then every third joint to 100' form surface                 | Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.   | Intermediate casing = 0.395" wall thickness<br>Burst=3950 psi   | X | X             | X | X             | X | X            | X | X             | X | X |   |
| X                | 8.5" Vertical | 5-1/2" 23# P-110 HP CDC HTQ | Speechley<br>Balltown<br>Benson<br>West Falls<br>Rhinestreet<br>Cashaqua<br>Middlesex<br>West River<br>Burkett<br>Tully Limestone<br>Hamilton<br>Marcellus | 2895<br>3115<br>4200<br>4770<br>6015<br>6290<br>6491<br>6571<br>6664<br>6664<br>6690<br>6794<br>7013 | 2913<br>3155<br>4233<br>6015<br>6290<br>6491<br>6571<br>6664<br>6690<br>6794<br>7013<br>7064 | AIR / 9.0ppg SOB<br>SOBM     | Lead: 14.5 ppg<br>POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk<br>FP13L + 0.3% bwoc MPA170<br>Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170<br>Lead Yield=1.19<br>Tail Yield=1.94 CTS | Run 1 spiral centralizer every 5 joints from the top of the curve to surface.            | Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement. | Production casing = 0.415" wall thickness<br>Burst=16240 psi<br>Note-Actual centralizer schedules may be changed due to hole conditions | X | X             | X | X             | X | X            | X | X             | X | X |   |
| X                | 8.5" Curve    |                             |  |  |  |                              |  |  | Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.   |   |   | X             | X | X             | X | X            | X | X             | X | X | X |
| X                | 8.5" Lateral  |                             |  | TMD / TVD (Production)<br>Onondaga   | 23130<br>7064  | 7064                         | 11.5ppg-12.5ppg SOB  |  |   |   |   | X             | X | X             | X | X            | X | X             | X | X | X |
| X                |               |                             |  |  |  |                              |  |  |   |   |   | X             | X | X             | X | X            | X | X             | X | X | X |

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

LP @ 7050' TVD / 7608' MD

+/-15522' ft Lateral

TD @ +/-7050' TVD  
+/-23130' MD

X=centralizers

**List of Frac Additives by Chemical Name and CAS #****Nutter 1208 Well Pad (N-1H to N-5H, S-6H to S-10H)**

| Chemical Name               | CAS #      | Multiple CAS #'s  |
|-----------------------------|------------|---|
| Pro Shale Slik 405          | Mixture    | 68551-12-2<br>7647-14-5<br>12125-02-9<br>64742-47-8                     |
| Pro Hib II                  | Mixture    | 68412-54-4<br>68607-28-3<br>107-21-1<br>111-76-2<br>67-56-1<br>107-19-7 |
| Silica Sand and Ground Sand | Mixture    | 14808-60-7<br>1344-28-1<br>1309-37-1<br>13463-67-7                      |
| Hydrochloric Acid 22 DEG BE | 7647-01-0  |   |
| PROGEL - 4.5                | 64742-96-7 |   |
| BIO CLEAR 2000              | Mixture    | 25322-68-3<br>10222-01-2  |
| SCALE CLEAR SI 112          | 107-21-1   |   |
| PROBREAK 4                  | Mixture    | 57-50-1<br>107-21-1   |
| Sulfamic Acid               | 5329-14-6  |   |
| PRO - Flow - 102-N          | Mixture    | 67-63-0<br>68439-45-2<br>2687-96-9                                      |
| PROGEL - 4                  | 9000-30-0  |   |

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PROPOSAL TO DRILL WITHIN DOMINION TRANSMISSION STORAGE FIELD

FIELD/ZONES: DOMINION FINK/KENNEDY/LOST CREEK -GANTZ SAND

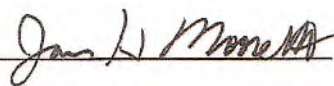
WELL NAME: Nutter 1208 S-9H

Well # Nutter 1208 S-9H

DISTRICT/COUNTY/STATE: Union, Harrison, WV

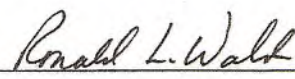
Submitted   
JOSH HINTON  
HG ENERGY, LLC

DATE 7-1-19

Approved 

DATE 7-9-19

Dominion Energy Transmission

Approved 

DATE 7-9-19

Dominion Energy Transmission

Comments:

HG Energy has submitted this Casing & Cementing diagram and Drilling Plan to Dominion Transmission for Review. This signed document acknowledges that Dominion has reviewed the proposed casing program and the well's location within the Fink/Kennedy/Lost Creek storage field. This acknowledgement also confirms the proposed casing program is accurate to the proper storage zone as provided by HG Energy, LLC

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Office of Oil and Gas  
JUL 12 2019  
WV Department of  
Environmental Protection



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

33-05966

June 24, 2019

Dominion Energy Transmission  
Attn: Charles Cunningham  
2397 Davisson Run Road  
Clarksburg, WV 26301

RE: Area of Review – Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)  
Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, has developed a Marcellus pad (Nutter 1208 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7050' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Nutter 1208 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Nutter 1208 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or [dwhite@hgenergyllc.com](mailto:dwhite@hgenergyllc.com). You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Enclosure

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Office of Oil and Gas  
JUL 12 2019  
WV Department of  
Environmental Protection



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

June 24, 2019

Abarta Oil & Gas Company  
200 Alpha Drive  
Pittsburg, PA 15238

RE: Area of Review – Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)  
Hydraulic Fracturing Notice

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Should you have any questions or desire further information, please contact me at 304-420-1119 or [dwhite@hgenergyllc.com](mailto:dwhite@hgenergyllc.com). You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Enclosure

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

47 03 305966

June 24, 2019

Ross & Wharton Gas Company  
29 Morton Street  
Buckhannon, WV 26201

RE: Area of Review – Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)  
Hydraulic Fracturing Notice

Dear Sir:

HG Energy II Appalachia, LLC, has developed a Marcellus pad (Nutter 1208 pad) located in Harrison County, WV. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7050' TVD) and existing conventional natural gas wells.

HG Energy anticipates conducting hydraulic fracturing of the Nutter 1208 Pad during the fourth quarter of 2019. We have identified conventional natural gas wells operated by your company within 500' of one of the newly planned laterals (Nutter 1208 N-1H). A plat for the well is attached.

We recommend conventional well operators conduct the following activities before, during and after the fracturing operation.

1. Inspect surface equipment prior to fracturing to establish integrity and well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in gas, water or pressure.
3. Inspect or install master valves rated at 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and HG Energy if any changes in water, gas production, pressure or other anomalies are identified.

Should you have any questions or desire further information, please contact me at 304-420-1119 or [dwhite@hgenergyllc.com](mailto:dwhite@hgenergyllc.com). You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Enclosure

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JUL 12 2019  
WV Department of  
Environmental Protection





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

47 03 3 05966

June 24, 2019

Alliance Petroleum Company  
101 McQuiston Drive  
Jackson Center, PA 16133

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

47 03 305966

June 24, 2019

R & R Oil & Gas Company  
7147 Hackers Creek Road  
Buckhannon, WV 26201

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

47 03 3 05966

June 24, 2019

Enervest Operating Company  
300 Capital Street, Suite 200  
Charleston, WV 25304

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

47 03 3 05966

June 24, 2019

Glass Source Inc. dba Masterpiece Crystal  
PO Box 848  
Jane Lew, WV 26378

RE: Area of Review – Nutter 1208 Well Pad (N-1H to N-5H and S-6H to S-10)  
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Diane White

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EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:  
**NUTTER 1208 SOUTH UNIT AND PROPOSED WELLS S-6H, S-7H, S-8H, S-9H & S-10H**

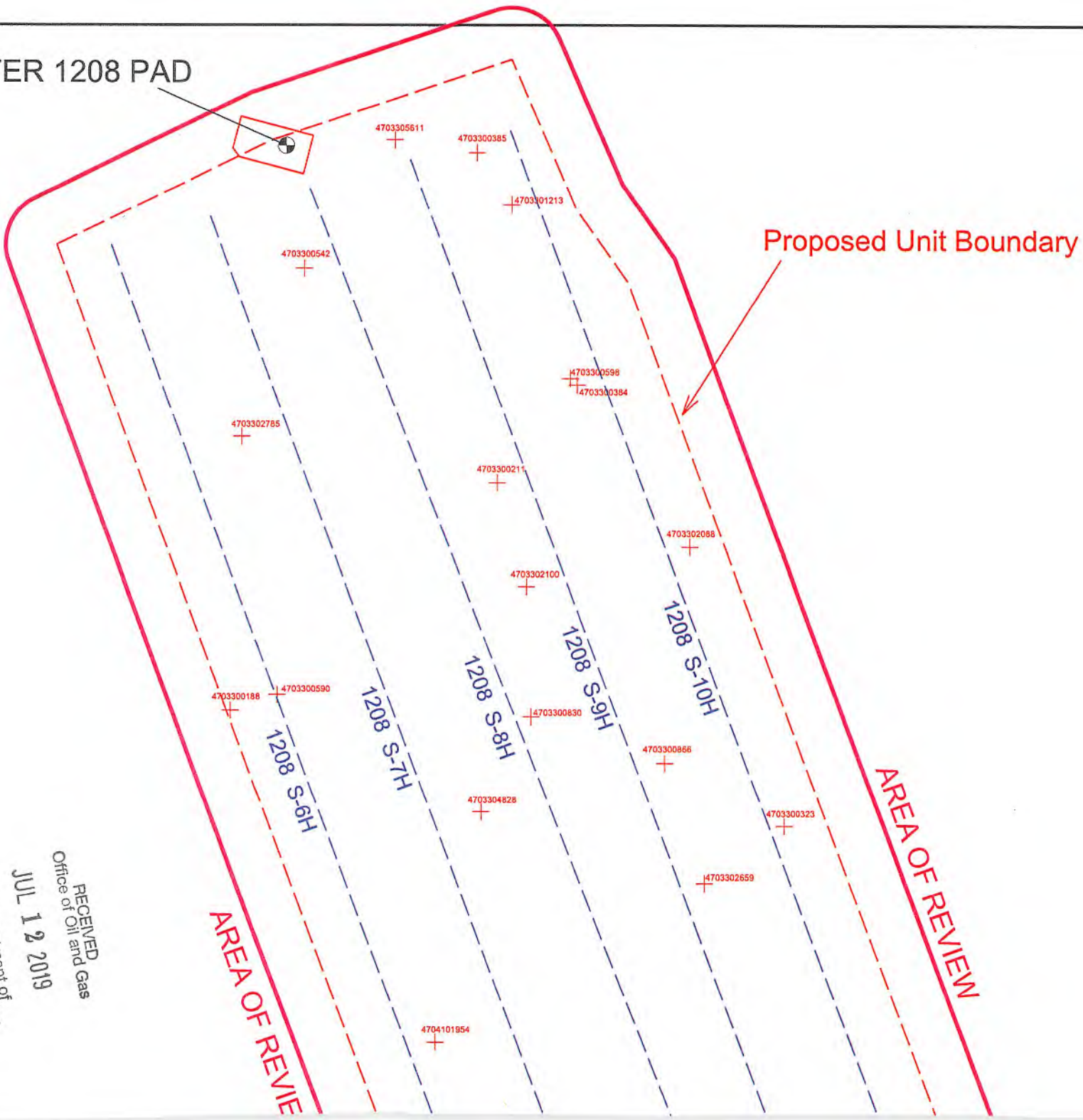
| CT | API        | COUNTY   | FARM                      | OPERATOR NAME                             | FORMATION NAME       | WELL TYPE | TVD  | STATUS    | LATITUDE  | LONGITUDE  |
|----|------------|----------|---------------------------|---|----------------------|-----------|------|-----------|-----------|------------|
| 1  | 4703300188 | Harrison | H Neeley                  | Dominion Energy Transmission, Inc.        | Gordon Stray         | Storage   | 1928 | Active    | 39.138239 | -80.42509  |
| 2  | 4703300211 | Harrison | H H Smith                 | Dominion Energy Transmission, Inc.        | Gordon               | Storage   | 2064 | Active    | 39.143537 | -80.416852 |
| 3  | 4703300323 | Harrison | J W Jackson               | Dominion Energy Transmission, Inc.        | Hampshire Grp        | Storage   | 3457 | Plugged   | 39.133017 | -80.406567 |
| 4  | 4703300384 | Harrison | J B Gusman 1              | Dominion Energy Transmission, Inc.        | Hampshire Grp        | Gas       | 2386 | Plugged   | 39.146875 | -80.413572 |
| 5  | 4703300385 | Harrison | Gusman                    | Dominion Energy Transmission, Inc.        | Hampshire Grp        | Storage   | 2337 | Plugged   | 39.152261 | -80.416667 |
| 6  | 4703300542 | Harrison | Florence V Nutter         | Dominion Energy Transmission, Inc.        | Benson               | Gas       | 4386 | Active    | 39.149646 | -80.422998 |
| 7  | 4703300590 | Harrison | Howard Neely              | Dominion Energy Transmission, Inc.        | Benson               | Gas       | 4280 | Active    | 39.138311 | -80.423561 |
| 8  | 4703300598 | Harrison | J B Gusman                | Dominion Energy Transmission, Inc.        | Benson               | Storage   | 4460 | Active    | 39.146004 | -80.413012 |
| 9  | 4703300830 | Harrison | L A Vanhorn               | Dominion Energy Transmission, Inc.        | Bayard               | Gas       | 2272 | Active    | 39.137961 | -80.415098 |
| 10 | 4703300866 | Harrison | Howard Neely CW114        | Dominion Energy Transmission, Inc.        | Fifty-foot           | Storage   | 2150 | Active    | 39.136716 | -80.410589 |
| 11 | 4703301213 | Harrison | Ricky Nutter              | Dominion Energy Transmission, Inc.        | Benson               | Gas       | 4560 | Active    | 39.151519 | -80.414689 |
| 12 | 4703302088 | Harrison | Archie L & Betty J Allman | Dominion Energy Transmission, Inc.        | Benson               | Gas       | 4800 | Active    | 39.141505 | -80.409657 |
| 13 | 4703302100 | Harrison | W A Jackson               | Dominion Energy Transmission, Inc.        | Greenland Gap Fm     | Storage   | 4450 | Active    | 39.140489 | -80.415434 |
| 14 | 4703302659 | Harrison | Siro Inc/White-Brooks 1   | Abarta Oil & Gas Company                  | Benson               | Gas       | 4554 | Active    | 39.133523 | -80.409285 |
| 15 | 4703302785 | Harrison | George Garton et al       | Dominion Energy Transmission, Inc.        | Benson               | Gas       | 4300 | Active    | 39.144698 | -80.425983 |
| 16 | 4703304828 | Harrison | Joseph E Barron           | Dominion Energy Transmission, Inc.        | Greenland Gap Fm     | Gas       | 4266 | Active    | 39.135870 | -80.417267 |
| 17 | 4703305611 | Harrison | Ricky Nutter              | Dominion Energy Transmission, Inc.        | Greenland Gap Fm     | Gas       | 4510 | Active    | 39.153269 | -80.419572 |
| 18 | 4704101404 | Lewis    | C H Stalnaker 1           | Ross & Wharton Gas Company, Inc.          | Benson               | Gas       | 4300 | Active    | 39.124468 | -80.402142 |
| 19 | 4704101813 | Lewis    | Isaac Jackson             | Dominion Energy Transmission, Inc.        | Greenland Gap Fm     | Gas       | 4520 | Active    | 39.116392 | -80.403107 |
| 20 | 4704101954 | Lewis    | Isaac Jackson             | Dominion Energy Transmission, Inc.        | Benson               | Gas       | 4280 | Active    | 39.129161 | -80.418886 |
| 21 | 4704101960 | Lewis    | Charles D Cole II         | Dominion Energy Transmission, Inc.        | Benson               | Gas       | 4200 | Active    | 39.115812 | -80.411298 |
| 22 | 4704102246 | Lewis    | Christine White           | Dominion Energy Transmission, Inc.        | Greenland Gap Fm     | Gas       | 3232 | Active    | 39.122918 | -80.405530 |
| 23 | 4704102921 | Lewis    | White                     | Alliance Petroleum Corporation            | Benson               | Gas       | 4292 | Active    | 39.120791 | -80.410070 |
| 24 | 4704102922 | Lewis    | C D Cole                  | Alliance Petroleum Corporation            | Benson               | Gas       | 2593 | Abandoned | 39.121208 | -80.414691 |
| 25 | 4704102933 | Lewis    | A Bargerhoff              | R&R Oil & Gas, LLC                        | Benson               | Gas       | 4289 | Active    | 39.111238 | -80.400638 |
| 26 | 4704103737 | Lewis    | L.L. Moss                 | Enervest Operating, LLC                   | Brallier             | Gas       | 5350 | Active    | 39.114216 | -80.406457 |
| 27 | 4704103921 | Lewis    | L.L. Moss                 | Enervest Operating, LLC                   | Benson               | Gas       | 4259 | Active    | 39.116972 | -80.405714 |
| 28 | 4704104010 | Lewis    | William Watson            | Enervest Operating, LLC                   | Greenland Gap Fm     | Gas       | 4450 | Plugged   | 39.124803 | -80.412048 |
| 29 | 4704104175 | Lewis    | Mary Ester Helmick 2      | Ross & Wharton Gas Company, Inc.          | Greenland Gap Fm     | Gas       | 4700 | Active    | 39.120162 | -80.401433 |
| 30 | 4704104928 | Lewis    | Glass Source Inc          | Glass Source Inc, DBA Masterpiece Crystal | Misc Sands-BNSN/BRLR | Gas       | 4220 | Abandoned | 39.112911 | -80.409435 |
| 31 | 4704105042 | Lewis    | J Thomas Small            | Ross & Wharton Gas Company, Inc.          | Misc Sands-BNSN/BRLR | Gas       | 4850 | Active    | 39.109286 | -80.397520 |
| 32 | 4704105383 | Lewis    | Christine White/W C White | Dominion Energy Transmission, Inc.        | Brallier             | Gas       | 4946 | Active    | 39.118857 | -80.398640 |

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SOURCE: WVGES DATASET (2018) and WVDEP WEBSITE



NUTTER 1208 PAD



- 4703305611
- 4703300385
- 4703301213
- 4703300542
- 4703302785
- 4703300211
- 4703302088
- 4703300598
- 4703300384
- 4703302100
- 4703302088
- 4703300188
- 4703300590
- 4703300830
- 4703300866
- 4703304828
- 4703300323
- 4703302659
- 4704101854

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4703305966

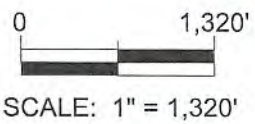
Proposed Wellbores →

**Well Key**

- +4703300197 Conventional Vertical Well
- Proposed Horizontal Marcellus Well



**NOTE:**  
See Attached Spreadsheet for Well Data  
**DATA SOURCE**  
WVGES Data Set - 2017; WVDEP Website



Area of Review for:

**NUTTER 1208 UNIT**

- Proposed 1208 S-6H
- Proposed 1208 S-7H
- Proposed 1208 S-8H
- Proposed 1208 S-9H
- Proposed 1208 S-10H

Grant District, Harrison County, W.Va.  
Hackers Creek District, Lewis County, W.Va.

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



6/17/2019



WW-9  
(4/16)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Nutter 1208 S-9H

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

Watershed (HUC 10) Middle West Fork Creek Quadrangle West Milford 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

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:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number TBD - At next anticipated well )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_ )

*SDW  
6/19/19*

Will closed loop system be used? If so, describe: Yes, cuttings and fluids will be collected in a closed loop system, re-used or hauled to an approved disposal site or landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical - Air, Air/KCL, Air/SOBM, Horizontal - SOBM

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Water, Soap, KCl, Barite, Base Oil, Wetting Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Approved Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? See Attached

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature Diane White

Company Official (Typed Name) Diane White

Company Official Title Agent

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JUL 12 2019

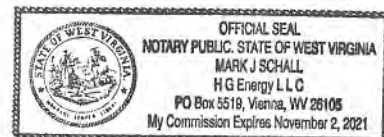
WV Department of  
Environmental Protection

Subscribed and sworn before me this 17th day of June, 2019

*[Signature]*

Notary Public

My commission expires 11/2/2021





HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 22.442 Prevegetation pH \_\_\_\_\_

Lime \_\_\_\_\_ 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount \_\_\_\_\_ 500 lbs/acre

Mulch Hay \_\_\_\_\_ 2 Tons/acre

Seed Mixtures

| Temporary     |           | Permanent     |           |
|---------------|-----------|---------------|-----------|
| Seed Type     | lbs/acre  | Seed Type     | lbs/acre  |
| Tall Fescue   | <u>40</u> | Tall Fescue   | <u>40</u> |
| Ladino Clover | <u>5</u>  | Ladino Clover | <u>5</u>  |

Maintain E&S controls through the drilling and completion process

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *SP Dwanette*

Comments: Pre-seed/mulch as soon as reasonably possible per regulation.

Upgrade E&S if needed per WV DEP E&S manual.

Title: Oil & Gas Inspector

Date: 6/12/19

Field Reviewed?  Yes  No

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## Cuttings Disposal/Site Water

### Cuttings -Haul off Company:

Eap Industries, Inc. DOT # 0876278  
1875 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)  
8287 US Highway 19  
Cochranston, PA 16314  
814-425-7773

### Disposal Locations:

Apex Environmental, LLC Permit # 06-08438  
11 County Road 78  
Amsterdam, OH 43908  
740-548-4889

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

Sycamore Landfill Inc. Permit #R80-079001 05-2010  
4301 Sycamore Ridge Road  
Hurricane, WV 25526  
304-562-2611

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

Max Environmental Technologies, Inc. Facility Permit # PAD05087072 / 301359  
200 Max Drive  
Bulger, PA 15019  
724-786-1571

Waste Management Kelly Run Permit # 100668  
1801 Park Side Drive  
Elizabeth, PA 15037  
412-884-7569

Waste Management South Hills (Arnot) Permit # 100592  
3100 Hill Road  
Liberty, PA 15129  
724-348-7013  
412-884-7569

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-109-87 / WV 0109029  
Rd 2 Box 410  
Colfers, WV 26035  
304-748-0014

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Wetzel County Landfill Permit # SWF-1021-97 / WV 01.09185  
 Rt 1, Box 156A  
 New Martinsville, WV 26035  
 804-455-3800

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 Environmental Services Permit ID MID020906814  
 8947 US 131 North, PO Box 1030  
 Kalkaska, MI 49646  
 281-258-9961

**Water Haul off Companies:**

Dynamic Structures, Clear Creek DOT # 720488  
 3790 State Route 7  
 New Waterford, OH 44445  
 830-892-0184

Nahors 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 Oilfield Services LLC  
 PO Box 739  
 St. Clairsville, OH 43950

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

**Disposal Locations:**

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

Solidification/Incineration  
 Soil Remediation, Inc. Permit # 02-20753  
 6065 Arrel-Smith Road  
 Lowellville, 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 Oilfield Serv  
 301 Commerce Drive  
 Moorestown, NJ 08057

Force, Inc.  
 1380 Rte. 288 Hwy. E, Suite 303  
 Indiana, PA 15701

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

Equipment Transport  
 1 Tyler Court  
 Carlisle, PA 17015

Myers Well Service, Inc.  
 2001 Ballpark Court  
 Export, PA 15622

Burns Drilling & Excavating  
 618 Crabapple Road P.O. Box  
 Wind Ridge, PA 15880

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

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

Kembla 1-D Well  
 Permit # 8780  
 7675 East Pike  
 Norwich, Oh 43767  
 614-648-8898  
 740-786-6495

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Adams #2 (Buckeye Brine, LLC)  
2205 Westover Road  
Austin Tx 78703  
Permit # 34-031-2-7178  
740-575-4454  
612-478-6545

Adams #3 (Buckeye Brine, LLC)  
Permit #34-031-2-7241-00-00  
2630 Exposition, Suite 117  
Austin, TX 78703  
612-478-6545

Mozana #1 Well (SWIW # 13)  
Permit # 34-157-2-5511-00-00  
3367 E. State Street  
Newcomerstown, OH 43882  
740-763-3966

Goff SWD #1 (SWIW # 27)  
Permit # 34-119-2-8776-000  
300 Cherrington Pkwy, Suite 200  
Coraopolis, PA 15108  
412-829-7275

SCS D#1 (SWIW #12)  
Permit # 34-059-2-4202-00-00  
Silcor Oilfield Services, Inc.  
2939 Hubbard Road  
Youngstown, OH 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 Buckeye UIC Barnesville 1 & 2  
CNX Gas Company, LLC  
1000 Consol Energy Drive  
Permit # 34-013-2-0609-00-00  
Permit # 34-013-2-0614-00-00  
304-323-6568

US Steele 11365  
Permit # 47-001-00561  
200 Evergreen Drive  
Waynesburg, PA 15730  
304-323-6568

Chapln #7 UIC (SWIW #7)  
Permit # 34-083-2-4187-00-00  
Elkhead Gas & Oil Company  
12168 Marne Rd. NE  
Newark, OH 43055  
740-763-3966

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JUL 12 2019

WV Department of  
Environmental Protection



47 03 305966  
03 305940

# HG Energy II Appalachia, LLC

## Site Safety Plan

Nutter 1208 Well Pad  
104 Hidden Valley Rd Jane Lew  
Harrison County, WV 26378

November 2018: 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

*SDW*  
*11/11/2018*

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Environmental Protection

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DEC 19 2018

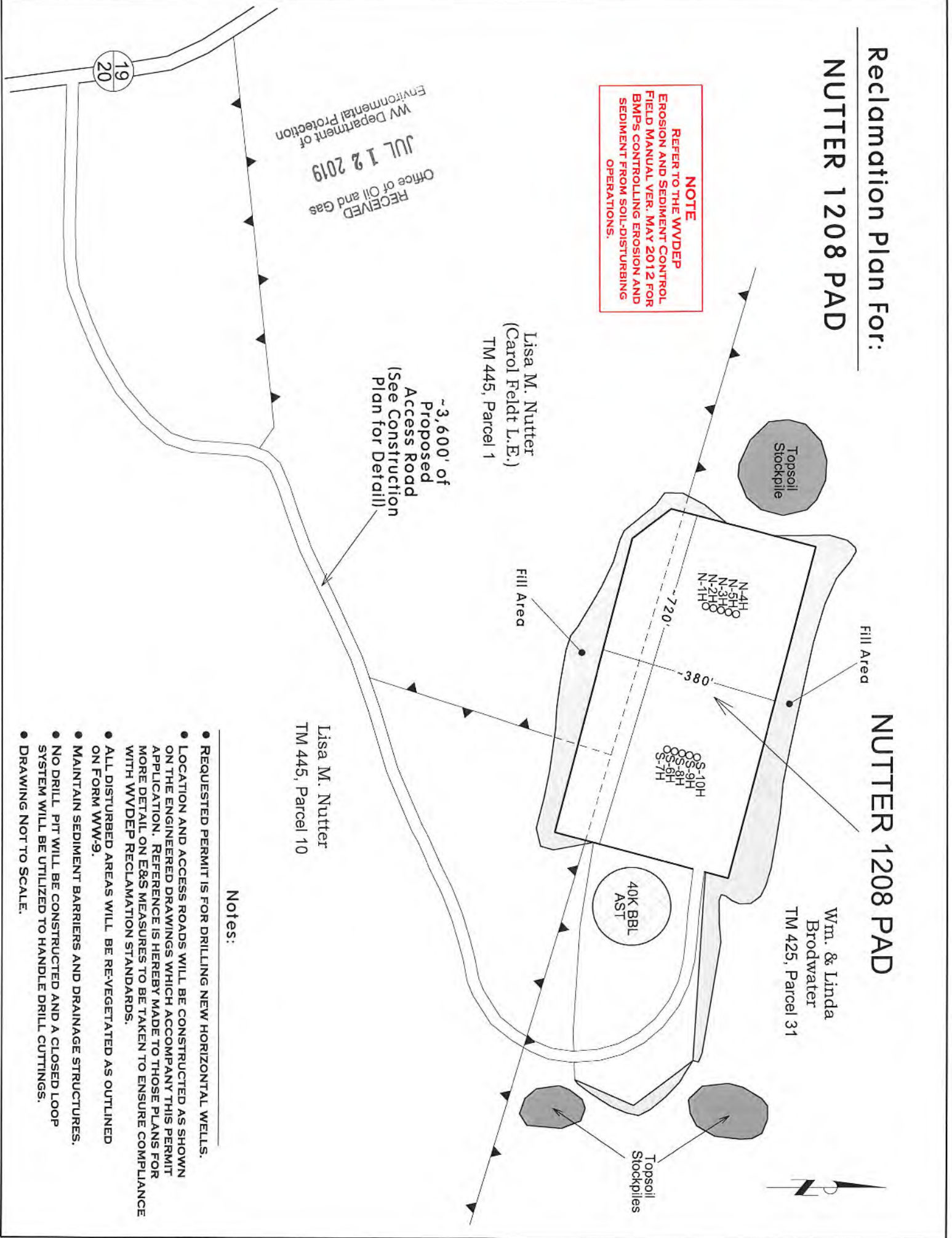
WV Department of  
Environmental Protection

# Reclamation Plan For: NUTTER 1208 PAD

## NUTTER 1208 PAD

**NOTE**  
REFER TO THE WVDEP  
EROSION AND SEDIMENT CONTROL  
FIELD MANUAL VER. MAY 2012 FOR  
BMPs CONTROLLING EROSION AND  
SEDIMENT FROM SOIL-DISTURBING  
OPERATIONS.

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JUL 12 2019  
WV Department of  
Environmental Protection



Lisa M. Nutter  
(Carol Feldt L.E.)  
TM 445, Parcel 1

~3,600' of  
Proposed  
Access Road  
(See Construction  
Plan for Detail)

Lisa M. Nutter  
TM 445, Parcel 10

Wm. & Linda  
Brodwater  
TM 425, Parcel 31

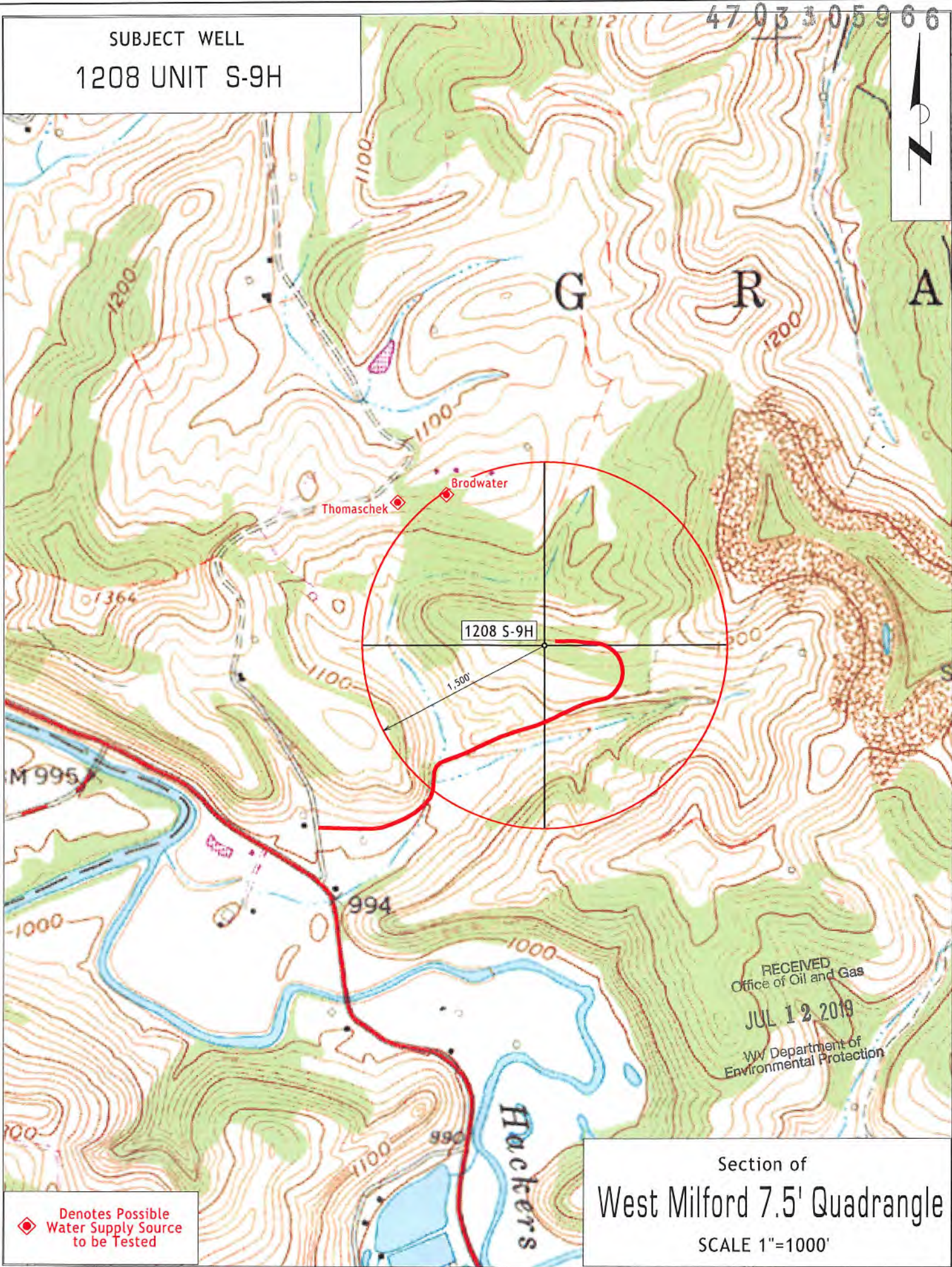
**Notes:**

- REQUESTED PERMIT IS FOR DRILLING NEW HORIZONTAL WELLS.
- LOCATION AND ACCESS ROADS WILL BE CONSTRUCTED AS SHOWN ON THE ENGINEERED DRAWINGS WHICH ACCOMPANY THIS PERMIT APPLICATION. REFERENCE IS HEREBY MADE TO THOSE PLANS FOR MORE DETAIL ON EGS MEASURES TO BE TAKEN TO ENSURE COMPLIANCE WITH WVDEP RECLAMATION STANDARDS.
- ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED ON FORM WW-9.
- MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES.
- NO DRILL PIT WILL BE CONSTRUCTED AND A CLOSED LOOP SYSTEM WILL BE UTILIZED TO HANDLE DRILL CUTTINGS.
- DRAWING NOT TO SCALE.



SUBJECT WELL  
1208 UNIT S-9H

47 03 30 59 66



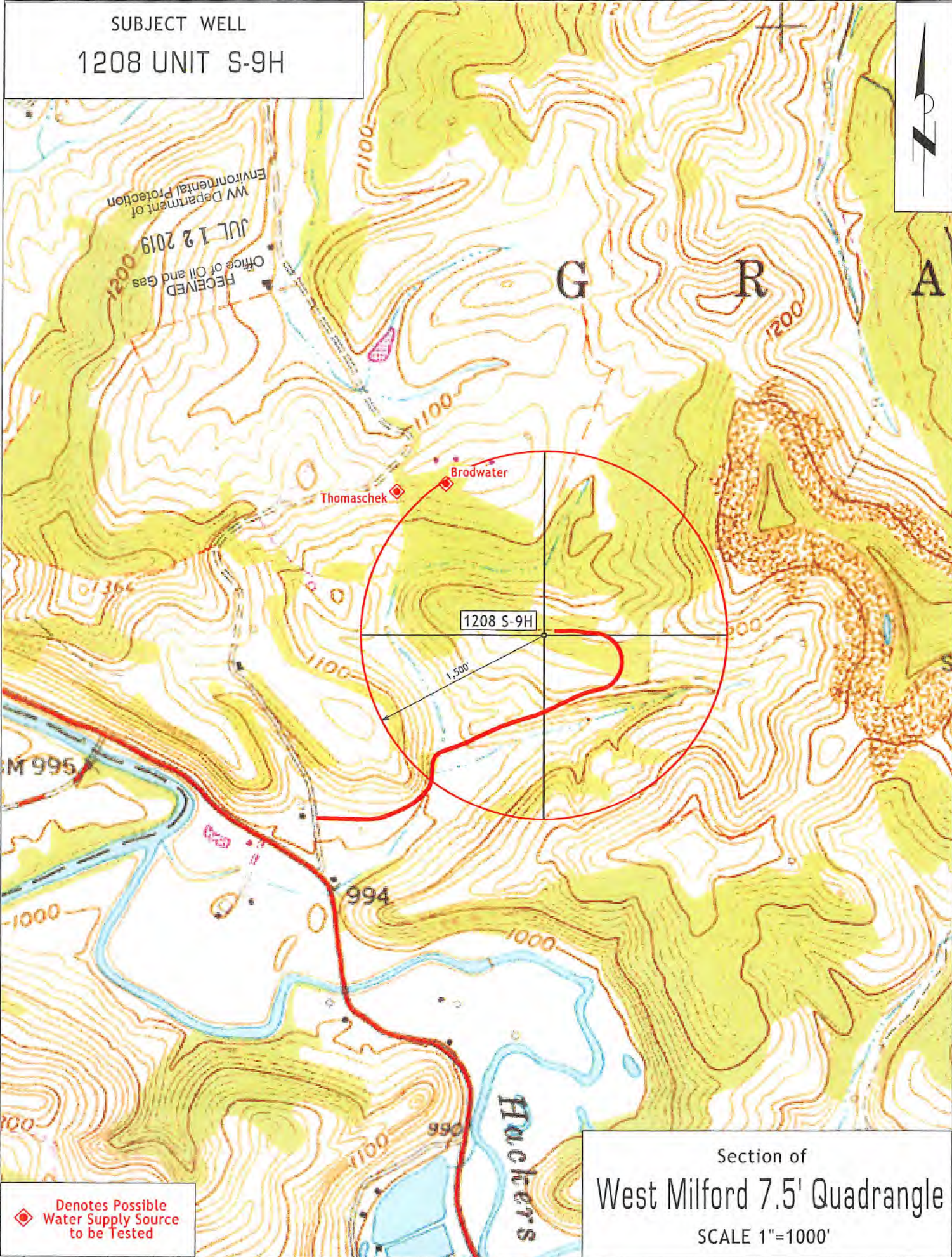
◆ Denotes Possible  
Water Supply Source  
to be Tested

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JUL 12 2019  
WV Department of  
Environmental Protection

Section of  
West Milford 7.5' Quadrangle  
SCALE 1"=1000'



SUBJECT WELL  
1208 UNIT S-9H



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JUL 12 2019  
WV Department of  
Environmental Protection

GR A

Thomaschek  
Brodwater

1208 S-9H

1,500

M 995

1000

994

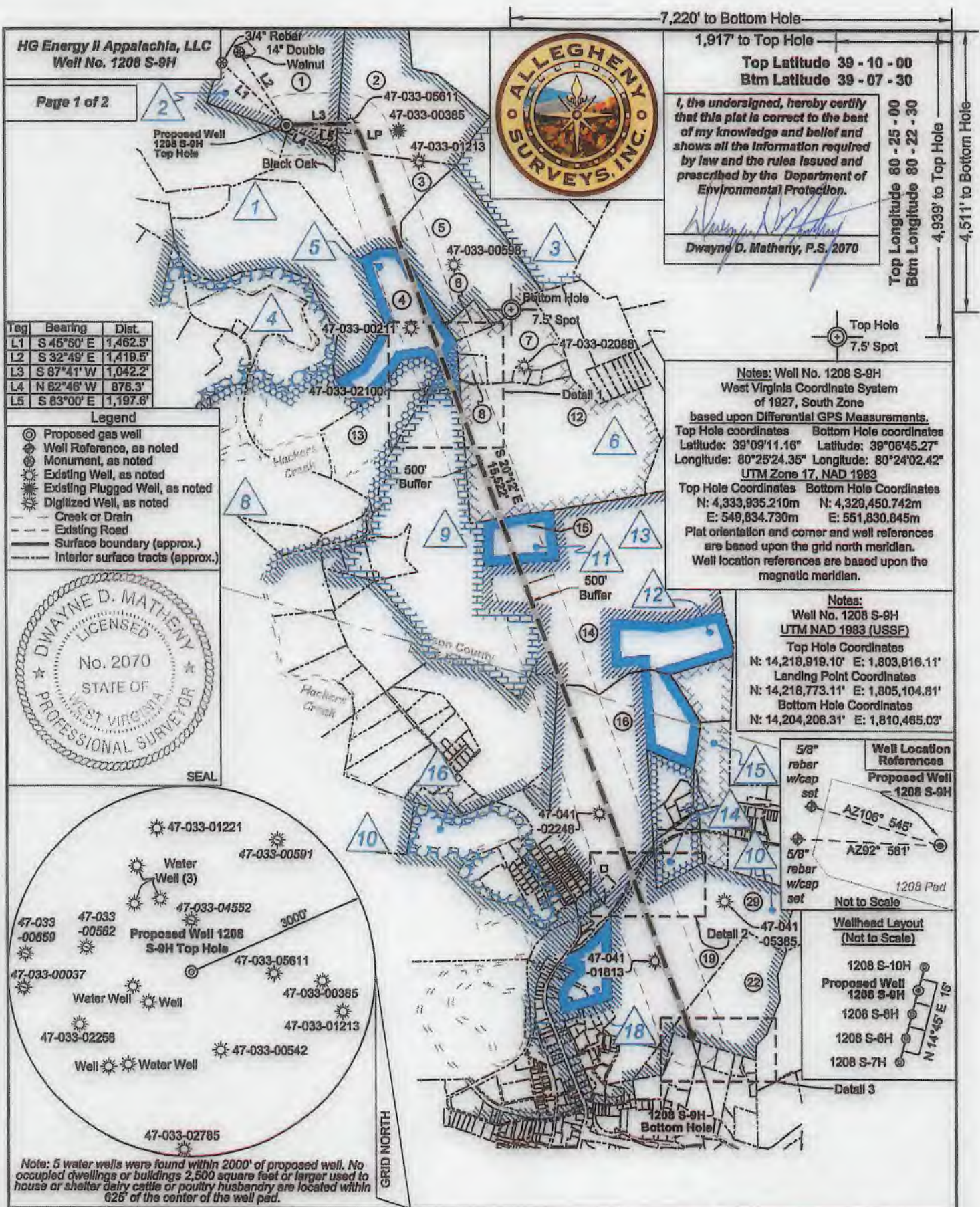
Hatchers

◆ Denotes Possible  
Water Supply Source  
to be Tested

Section of  
West Milford 7.5' Quadrangle

SCALE 1"=1000'





7,220' to Bottom Hole  
1,917' to Top Hole  
Top Latitude 39 - 10 - 00  
Btm Latitude 39 - 07 - 30  
Top Longitude 80 - 25 - 00  
Btm Longitude 80 - 22 - 30  
4,939' to Top Hole  
4,511' to Bottom Hole

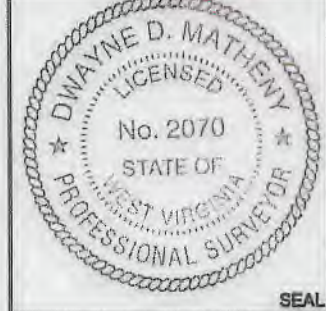
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Dwayne D. Matheny*  
Dwayne D. Matheny, P.S., 2070

Top Hole  
7.5' Spot

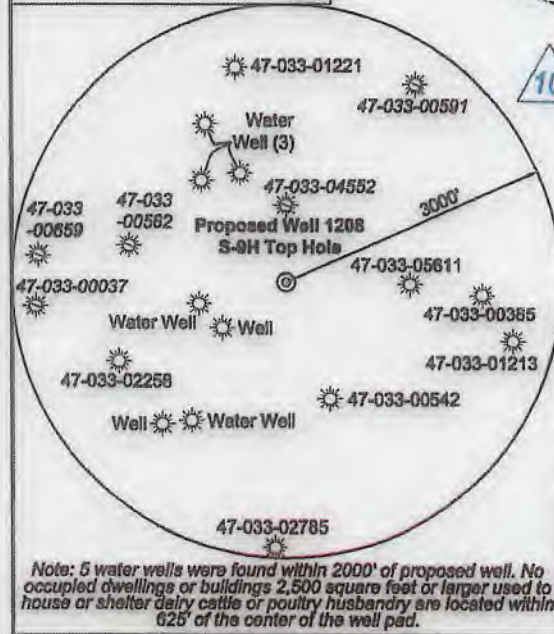
| Tag | Bearing    | Dist.    |
|-----|------------|----------|
| L1  | S 46°50' E | 1,462.5' |
| L2  | S 32°49' E | 1,419.5' |
| L3  | S 87°41' W | 1,042.2' |
| L4  | N 82°46' W | 876.3'   |
| L5  | S 83°00' E | 1,197.6' |

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

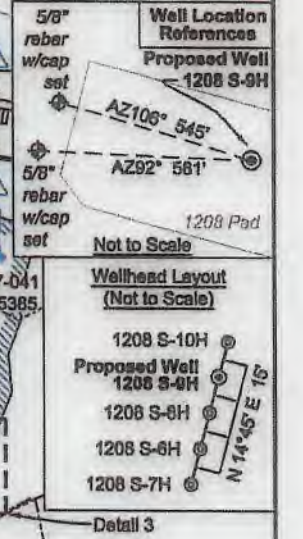


**Notes:** Well No. 1208 S-9H  
West Virginia Coordinate System of 1927, South Zone based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°09'11.16" Latitude: 39°08'45.27"  
Longitude: 80°25'24.35" Longitude: 80°24'02.42"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,333,935.210m N: 4,329,450.742m  
E: 549,834.730m E: 551,830.845m  
Plat orientation and corner and well references are based upon the grid north meridian.  
Well location references are based upon the magnetic meridian.

**Notes:**  
Well No. 1208 S-9H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,218,919.10' E: 1,803,916.11'  
Landing Point Coordinates  
N: 14,218,773.11' E: 1,805,104.81'  
Bottom Hole Coordinates  
N: 14,204,206.31' E: 1,810,465.03'



Note: 5 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



FILE NO: 195-36-G-18  
DRAWING NO: 1208 S-9H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: June 27 20 19  
OPERATOR'S WELL NO. 1208 S-9H  
API WELL NO  
47 - 033 - 05166  
STATE COUNTY PERMIT

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

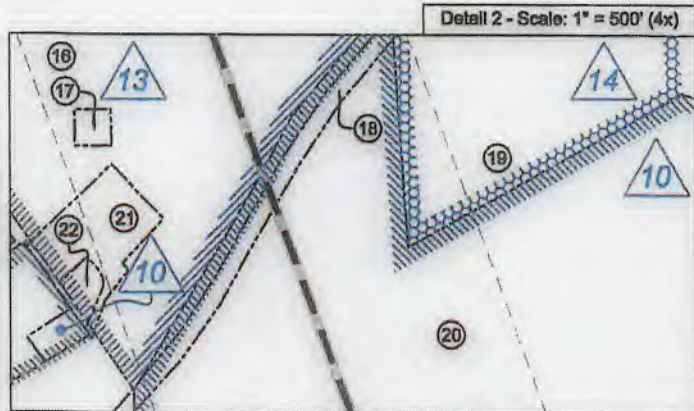
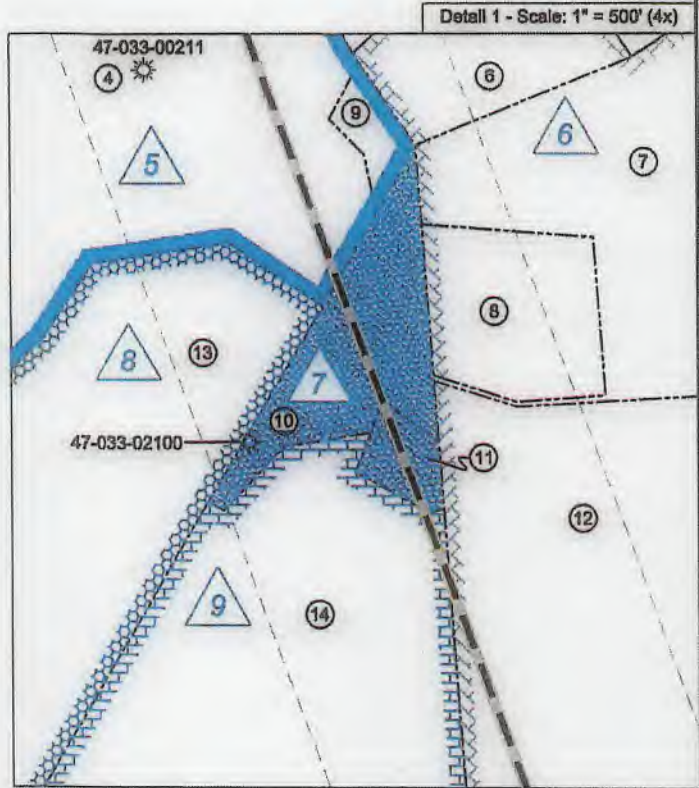
LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek  
DISTRICT: Grant / Hackers Creek  
SURFACE OWNER: Linda & William W. Brodwater III  
ROYALTY OWNER: Leeman B. Maxwell Helms, et al LEASE NO: ACREAGE: 247.84

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,050' TVD 23,130' MD

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



| ID | Lease                     |
|----|---------------------------|
| 1  | Jerome B. Gusman          |
| 2  | Leeman B. Maxwell Heirs   |
| 3  | A.J. Smith, et ux         |
| 4  | W.L. & Flora Hughes       |
| 5  | Hannah H. Smith           |
| 6  | Walter Neely, et al       |
| 7  | Page Hamner Thomas, et al |
| 8  | Howard Neely              |
| 9  | W.A. Jackson              |
| 10 | Isaac Jackson             |
| 11 | Pearl Reel                |
| 12 | William C. White          |
| 13 | J.W. Jackson              |
| 14 | Mike Ross, Inc.           |
| 15 | Garnett M. Corley         |
| 16 | John B. Davison           |
| 18 | David Kent Moss, et al    |



| Harrison County - Grant-Outside District |            |                                    |             |        |
|--|------------|------------------------------------|-------------|--------|
| No.                                      | TM / Par   | Owner                              | Bk / Pg     | Ac.    |
| 1  | 425 / 31   | Linda & William W. Brodwater III   | 1410 / 1045 | 247.84 |
| 2  | 445 / 2    | Lisa M. Nutter                     | W687 / 445  | 84.57  |
| 3  | 445 / 10   | Lisa M. Nutter                     | W687 / 445  | 88.87  |
| 4  | 445 / 21   | Robert Allman, et al               | W177 / 231  | 41.11  |
| 5  | 445 / 11   | Lisa M. Nutter                     | W687 / 445  | 75.50  |
| 6  | 445 / 22   | John D. Smith Estate               | W13 / 53    | 4.00   |
| 7  | 445 / 23   | Robert Allman, et al               | W177 / 231  | 32.84  |
| 8  | 445 / 23.2 | Patricia T. Stamm                  | 1341 / 1204 | 5.06   |
| 9  | 445 / 21.1 | Robert Allman, et al               | 1500 / 177  | 0.89   |
| 10                                       | 445 / 34   | Robert Allman, et al               | W177 / 231  | 4.65   |
| 11                                       | 445 / 33   | Robert Allman, et al               | W177 / 231  | 1.05   |
| 12                                       | 445 / 46   | James W. Riffe II & William L. Law | 1385 / 259  | 140.43 |
| 13                                       | 445 / 32   | Patricia T. Garton                 | 1425 / 854  | 43.15  |
| 14                                       | 465 / 4.1  | John G. & Rebecca M. Moore         | 1421 / 350  | 353.80 |
| 15                                       | 465 / 6    | John G. & Rebecca M. Moore         | 1421 / 350  | 21.37  |
| Lewis County - Hackers Creek District    |            |                                    |             |        |
| No.                                      | TM / Par   | Owner                              | Bk / Pg     | Ac.    |
| 16                                       | 8C / 55    | William C. White                   | W23 / 102   | 92.02  |
| 17                                       | 8C / 55.1  | William C. White                   | W23 / 102   | 0.50   |
| 18                                       | 8C / 87    | Mike Ross Inc.                     | 531 / 303   | 14.27  |
| 19                                       | 8C / 56    | Esther M. Riffe                    | 347 / 76    | 23.12  |
| 20                                       | 8C / 58    | William C. White                   | W23 / 102   | 126.18 |
| 21                                       | 8C / 55.3  | William C. White                   | 870 / 590   | 1.49   |
| 22                                       | 8C / 55.2  | William C. White II                | 640 / 269   | 0.30   |
| 23                                       | 8C / 59    | James E. & Louise K. Dyer          | 551 / 372   | 54.62  |
| 24                                       | 8C / 59.2  | Skyler B. & Christy M. Mills       | 697 / 793   | 2.529  |
| 25                                       | 8C / 60.16 | James E. & Louise K. Dyer          | 637 / 173   | 3.38   |
| 26                                       | 8C / 61.3  | Michael E. Moeller                 | 674 / 3     | 2.40   |
| 27                                       | 8C / 61.2  | Michael E. Moeller                 | 669 / 327   | 2.40   |
| 28                                       | 8C / 61.4  | Michael E. Moeller                 | 674 / 3     | 10.38  |
| 29                                       | 8C / 60.10 | Oscar & Dlnah Mills                | 551 / 374   | 10.269 |

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

DATE: June 27 20 19  
OPERATOR'S WELL NO. 1208 S-9H  
API WELL NO  
47 - 033 - 05966  
STATE COUNTY PERMIT

FILE NO: 195-36-G-18  
DRAWING NO: 1208 S-9H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

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

LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek  
DISTRICT: Grant / Hackers Creek

QUADRANGLE: Top - West Milford  
Btm - Weston  
COUNTY: Harrison / Lewis

SURFACE OWNER: Linda & William W. Brodwater III  
ROYALTY OWNER: Leeman B. Maxwell Heirs, et al LEASE NO: ACREAGE: 200  
ACREAGE: 247.84

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,050' TVD  
23,130' MD

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



WW-6A1  
(5/13)

Operator's Well No. Nutter 1208 S-9H

**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<br>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

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**JUL 12 2019**  
WV Department of  
Environmental Protection

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

Well Operator: HG Energy II Appalachia, LLC  
 By: Diane White *Diane White*  
 Its: Agent

4703305966

**HG Energy II Appalachia, LLC  
1208S LEASE CHAIN**

| TRACT #                                   | LEGACY LEASE NUMBER                        | TAX MAP   | LEASE NUMBER | GRANTOR/LESSOR   | GRANTEE/LESSEE                             | ROYALTY  | DEED BOOK  | PAGE                           |                         |                   |     |     |
|---|--|---|--------------|--|--|--|------------|--------------------------------|-------------------------|-------------------|-----|-----|
| 2   | LC014207                                   | 17-12-0425-0031-0003<br>17-12-0425-0031-0000        | Q101051000   | LEEMAN B. MAXWELL HEIRS  | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8  | 176        | 141                            |                         |                   |     |     |
|   |  |   |              | HOPE NATURAL GAS COMPANY   | CONSOLIDATED GAS SUPPLY CORPORATION        | MERGER/NAME CHANGE   | 903        | 179                            |                         |                   |     |     |
|   |  |   |              | CONSOLIDATED GAS SUPPLY CORPORATION  | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT   | 1136       | 250                            |                         |                   |     |     |
|   |  |   |              | CONSOLIDATED GAS TRANSMISSION CORPORATION  | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE   | 51         | 795                            |                         |                   |     |     |
|   |  |   |              | CNG TRANSMISSION CORPORATION   | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE   | 58         | 362                            |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | DOMINION EXPLORATION & PRODUCTION, INC.    | MERGER/NAME CHANGE   | 1325       | 874                            |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | DOMINION EXPLORATION & PRODUCTION, INC.    | ASSIGNMENT   | 1427       | 829                            |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT   | 1522       | 33                             |                         |                   |     |     |
|   |  |   |              | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)   | 1543       | 1235                           |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)   | 1576       | 125                            |                         |                   |     |     |
|   |  |   |              | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | ASSIGNMENT   | 1584       | 942                            |                         |                   |     |     |
|   |  |   |              | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   | 1600       | 660                            |                         |                   |     |     |
|   |  |   |              | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   | 1600       | 692                            |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE   | WVSOS      |                                |                         |                   |     |     |
|   |  |   |              | DOMINION ENERGY TRANSMISSION, INC.   | HG ENERGY II APPALACHIA, LLC               | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  | 1601       | 581                            |                         |                   |     |     |
|   |  |   |              | 1  | FK020606                                   | 17-20-0444-0011-0000,<br>17-20-0444-0011-0001,<br>17-20-0444-0011-0002,<br>17-20-0444-0011-0003,<br>17-20-0444-0012-0000,<br>17-12-0444-0013-0000,<br>17-12-0444-0014-0000,<br>17-12-0444-0021-0000,<br>17-12-0444-0021-0001,<br>17-12-0444-0022-0000,<br>17-12-0445-0001-0000,<br>17-12-0445-0002-0000,<br>17-12-0445-0009-0000,<br>17-12-0445-0010-0000,<br>17-12-0445-0011-0000 | Q100370000 | J.B. GUSMAN AND ADALINE GUSMAN | TREAT AND CRAWFORD      | NOT LESS THAN 1/8 | 158 | 8   |
|   |  |   |              |  |  |  |            | TREAT AND CRAWFORD             | UNITED FUEL GAS COMPANY | ASSIGNMENT        | 226 | 359 |
| UNITED FUEL GAS COMPANY                   | FAYETTE COUNTY GAS COMPANY                 | ASSIGNMENT  | UNRECORDED   |  |  |  |            |                                |                         |                   |     |     |
| FAYETTE COUNTY GAS COMPANY                | HOPE NATURAL GAS                           | ASSIGNMENT  | 201          |  |  |  |            | 3                              |                         |                   |     |     |
| HOPE NATURAL GAS COMPANY                  | CONSOLIDATED GAS SUPPLY COMPANY            | MERGER/NAME CHANGE                                  | 903          |  |  |  |            | 179                            |                         |                   |     |     |
| CONSOLIDATED GAS SUPPLY CORPORATION       | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT  | 1136         |  |  |  |            | 250                            |                         |                   |     |     |
| CONSOLIDATED GAS TRANSMISSION CORPORATION | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE                                  | 51           |  |  |  |            | 795                            |                         |                   |     |     |
| CNG TRANSMISSION CORPORATION              | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE                                  | 58           |  |  |  |            | 362                            |                         |                   |     |     |
| DOMINION TRANSMISSION, INC.               | DOMINION EXPLORATION & PRODUCTION, INC.    | ASSIGNMENT  | 1409         |  |  |  |            | 680                            |                         |                   |     |     |
| DOMINION TRANSMISSION, INC.               | DOMINION EXPLORATION & PRODUCTION, INC.    | ASSIGNMENT  | 1442         |  |  |  |            | 356                            |                         |                   |     |     |
| DOMINION EXPLORATION & PRODUCTION, INC.   | DOMINION TRANSMISSION, INC.                | ASSIGNMENT  | 1457         |  |  |  |            | 978                            |                         |                   |     |     |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT                        | 1522         |  |  |  |            | 33                             |                         |                   |     |     |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | LIMITED PARTIAL ASSIGNMENT (50%)                    | 1543         |  |  |  |            | 1235                           |                         |                   |     |     |
| DOMINION TRANSMISSION, INC.               | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)                            | 1576         |  |  |  |            | 125                            |                         |                   |     |     |
| CNX GAS COMPANY LLC                       | NOBLE ENERGY, INC.                         | ASSIGNMENT  | 1584         |  |  |  |            | 942                            |                         |                   |     |     |
| NOBLE ENERGY, INC.                        | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT  | 1600         |  |  |  |            | 692                            |                         |                   |     |     |
| DOMINION TRANSMISSION, INC.               | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE                                  | WVSOS        |  |  |  |            |                                |                         |                   |     |     |
| DOMINION ENERGY TRANSMISSION, INC.        | HG ENERGY II APPALACHIA, LLC               | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | 1601         | 581  |  |  |            |                                |                         |                   |     |     |
| 5   | FK065540                                   | 17-12-0445-0021-0000                                | Q100562000   | HANNAH H. SMITH, WIDOW; IRENE FERRELL, SINGLE; ELECTA E. TAYLOR, SINGLE; EVA RUTH SMITH, WIDOW; WILDA C. TAYLOR AND JOHN W. TAYLOR, HER HUSBAND; BERTIE JUSTICE, WIDOW; ORA FLECHER, WIDOW; THE UNION NATIONAL BANK, COMMITTEE FOR FRED RUSKIN FLECHER, C. W. MORROW AND LUCY MORROW, HIS WIFE; FRENCH TRIMBLE AND VA. C. TRIMBLE, HIS WIFE; E. B. SMITH AND BLANCHE PARRILL SMITH, HIS WIFE | HOPE NATURAL GAS COMPANY                   | NOT LESS THAN 1/8  | 748        | 578                            |                         |                   |     |     |
|   |  |   |              | HOPE NATURAL GAS COMPANY   | CONSOLIDATED GAS SUPPLY CORPORATION        | CONFIRMATORY DEED  | 903        | 179                            |                         |                   |     |     |
|   |  |   |              | CONSOLIDATED GAS SUPPLY CORPORATION  | CONSOLIDATED GAS TRANSMISSION CORPORATION  | ASSIGNMENT   | 1136       | 250                            |                         |                   |     |     |
|   |  |   |              | CONSOLIDATED GAS TRANSMISSION CORPORATION  | CNG TRANSMISSION CORPORATION               | MERGER/NAME CHANGE   | 51         | 795                            |                         |                   |     |     |
|   |  |   |              | CNG TRANSMISSION CORPORATION   | DOMINION TRANSMISSION, INC.                | MERGER/NAME CHANGE   | 58         | 362                            |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                        | MEMORANDUM FARMOUT AGREEMENT   | 1522       | 33                             |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC                        | FIRST AMENDMENT TO FARMOUT AGREEMENT   | 1524       | 491                            |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. | PARTIAL ASSIGNMENT (32%)   | 1576       | 125                            |                         |                   |     |     |
|   |  |   |              | CNX GAS COMPANY LLC  | NOBLE ENERGY, INC.                         | ASSIGNMENT   | 1584       | 942                            |                         |                   |     |     |
|   |  |   |              | NOBLE ENERGY, INC.   | HG ENERGY II APPALACHIA, LLC               | ASSIGNMENT   | 1600       | 692                            |                         |                   |     |     |
|   |  |   |              | DOMINION TRANSMISSION, INC.  | DOMINION ENERGY TRANSMISSION, INC.         | MERGER/NAME CHANGE   | WVSOS      |                                |                         |                   |     |     |
|   |  |   |              | DOMINION ENERGY TRANSMISSION, INC.   | HG ENERGY II APPALACHIA, LLC               | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT  | 1601       | 581                            |                         |                   |     |     |
|   |  |   |              | Page Harmer Thomas   | HG ENERGY II APPALACHIA, LLC               | NOT LESS THAN 1/8  | 1633       | 368                            |                         |                   |     |     |

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 Environmental Protection

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|----|----------|--|--------------|--|---|---|---|---|
|    | N/A      | 17-12-0445-0034-0000   | F Tract      | Sarah Kingery<br>Betty G Justice<br>Zane Anthony Justice<br>Margaret Jill Justice Lambert<br>Steve Kanouse and Frank Warnock, as Trustees for Oren W. Justice Inter Vivos Trust dated June 27, 2013 (It is our belief that this is owned by John Daniel Justice)<br>Lonnie Kincaid<br>Delores Jean Moats<br>Geneva Bruffey   | HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC  | NOT LESS THAN 1/8<br>NOT LESS THAN 1/8<br>NOT LESS THAN 1/8<br>NOT LESS THAN 1/8<br>NOT LESS THAN 1/8<br>NOT LESS THAN 1/8<br>NOT LESS THAN 1/8<br>NOT LESS THAN 1/8  | 1633<br>1633<br>1633<br>1633<br>1633<br>1633<br>1608<br>1627  | 1150<br>1300<br>360<br>484<br>1061<br>1016<br>1020<br>1268<br>1254                              |
| 25 | LC026291 | 17-12-0445-0033-0000   | LC026291 FEE | DOMINION ENERGY TRANSMISSION, INC.   | HG ENERGY II APPALACHIA, LLC  | OIL AND GAS DEED  | 1627  | 1254  |
| 9  | FK066065 | p/o 17-12-0465-0004-0000;<br>p/o 17-12-0465-0004-0001  | Q100728000   | W. A. JACKSON<br>HOPE NATURAL GAS COMPANY<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>DOMINION TRANSMISSION, INC.<br>DOMINION EXPLORATION & PRODUCTION, INC.<br>DOMINION EXPLORATION & PRODUCTION, INC.<br>DOMINION TRANSMISSION, INC.<br>DOMINION TRANSMISSION, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>DOMINION TRANSMISSION, INC.<br>DOMINION ENERGY TRANSMISSION, INC.  | HOPE NATURAL GAS COMPANY<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>DOMINION TRANSMISSION, INC.<br>DOMINION EXPLORATION & PRODUCTION, INC.<br>DOMINION TRANSMISSION, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>HG ENERGY II APPALACHIA, LLC<br>DOMINION ENERGY TRANSMISSION, INC.                                  | NOT LESS THAN 1/8<br>MERGER/NAME CHANGE<br>ASSIGNMENT<br>MERGER/NAME CHANGE<br>MERGER/NAME CHANGE<br>CONFIRMATORY ASSIGNMENT<br>ASSIGNMENT<br>MEMORANDUM FARMOUT AGREEMENT<br>FIRST AMENDMENT TO FARMOUT AGREEMENT<br>LIMITED PARTIAL ASSIGNMENT (50%)<br>PARTIAL ASSIGNMENT (32%)<br>ASSIGNMENT<br>ASSIGNMENT<br>MERGER/NAME CHANGE<br>SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | 756<br>903<br>1136<br>51<br>58<br>1414<br>1457<br>1522<br>1524<br>1543<br>1576<br>1584<br>1600<br>WVSOS<br>1601 | 144<br>179<br>250<br>795<br>362<br>1166<br>978<br>33<br>491<br>1235<br>125<br>942<br>692<br>581 |
| 6  | LC056390 | RECEIVED<br>JUL 12 2019<br>Office of Oil and Gas<br>17-12-0445-0022-0000;<br>17-12-0445-0023-0000;<br>17-12-0445-0023-0001;<br>17-12-0445-0023-0002;<br>17-12-0445-0023-0003;<br>17-12-0445-0046-0000;<br>17-12-0445-0005-0000 | Q100794000   | WALTER NEELY AND EMMA E. NEELY, HIS WIFE; JOHN R. NEELY, SINGLE; GRACE NEELY, WIDOW; BERTIE SAILER AND WILL D. SAILER, HER HUSBAND; C. M. LINGER, SINGLE; ANNA BELLE L. LAWTON AND THOMAS W. LAWTON, JR., HER HUSBAND; WILDA C. TAYLOR AND JOHN W. TAYLOR, HER HUSBAND; BERTIE S. JUSTICE AND OREN JUSTICE, HER HUSBAND; CELIA IRENE FERRELL AND LINN B. FERRELL, HER HUSBAND<br>HOPE NATURAL GAS COMPANY<br>HOPE NATURAL GAS COMPANY<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>DOMINION TRANSMISSION, INC.<br>DOMINION EXPLORATION & PRODUCTION, INC.<br>DOMINION EXPLORATION & PRODUCTION, INC.<br>DOMINION TRANSMISSION, INC.<br>DOMINION TRANSMISSION, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>DOMINION TRANSMISSION, INC. | HOPE NATURAL GAS COMPANY<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>DOMINION TRANSMISSION, INC.<br>DOMINION EXPLORATION & PRODUCTION, INC.<br>DOMINION TRANSMISSION, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>HG ENERGY II APPALACHIA, LLC<br>HG ENERGY II APPALACHIA, LLC | NOT LESS THAN 1/8<br>CONFIRMATORY DEED<br>ASSIGNMENT<br>MERGER/NAME CHANGE<br>MERGER/NAME CHANGE<br>CONFIRMATORY ASSIGNMENT<br>ASSIGNMENT<br>MEMORANDUM FARMOUT AGREEMENT<br>FIRST AMENDMENT TO FARMOUT AGREEMENT<br>LIMITED PARTIAL ASSIGNMENT (50%)<br>PARTIAL ASSIGNMENT (32%)<br>ASSIGNMENT<br>ASSIGNMENT<br>SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT                        | 567<br>903<br>1136<br>51<br>58<br>1414<br>1457<br>1522<br>1524<br>1543<br>1576<br>1584<br>1600<br>1600<br>1601  | 49<br>179<br>250<br>795<br>362<br>1166<br>978<br>33<br>491<br>1235<br>125<br>942<br>692<br>581  |
| 11 | LC065814 | 17-12-0465-0006-0000   | Q100526000   | PEARL REEL<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>DOMINION TRANSMISSION, INC.<br>DOMINION TRANSMISSION, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>DOMINION TRANSMISSION, INC.   | CONSOLIDATED GAS SUPPLY CORPORATION<br>CONSOLIDATED GAS TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>CNG TRANSMISSION CORPORATION<br>DOMINION TRANSMISSION, INC.<br>DOMINION TRANSMISSION, INC.<br>CNX GAS COMPANY LLC<br>NOBLE ENERGY, INC.<br>CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>NOBLE ENERGY, INC.<br>HG ENERGY II APPALACHIA, LLC<br>DOMINION ENERGY TRANSMISSION, INC.   | NOT LESS THAN 1/8<br>ASSIGNMENT<br>MERGER/NAME CHANGE<br>MERGER/NAME CHANGE<br>CONFIRMATORY ASSIGNMENT<br>ASSIGNMENT<br>MEMORANDUM FARMOUT AGREEMENT<br>FIRST AMENDMENT TO FARMOUT AGREEMENT<br>LIMITED PARTIAL ASSIGNMENT (50%)<br>PARTIAL ASSIGNMENT (32%)<br>ASSIGNMENT<br>ASSIGNMENT<br>MERGER/NAME CHANGE  | 957<br>1136<br>51<br>58<br>1522<br>1524<br>1543<br>1576<br>1584<br>1600<br>WVSOS                                | 98<br>250<br>795<br>362<br>33<br>491<br>1235<br>125<br>942<br>692                               |



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21-04-008B-0004-0000;  
21-04-008B-0005-0000, 0001;  
21-04-008B-0006-0000;  
21-04-008B-0007-0000, 0001, 0002,  
0003, 0014, 0015, 0016, 0017;  
21-04-008C-0029-0000;  
21-04-008C-0030-0000, 0002;  
21-04-008C-0031-0000, 0001, 0002,  
0003;  
21-04-008C-0054-0000;  
21-05-0001-0050-0001;  
21-05-0001-0048-0000;  
21-05-0001-0084-0000;  
21-05-0001-0049-0000;  
21-04-008C-0086-0000;  
21-05-0001-0066-0000, 0002, 0003,  
0004, 0005, 0006, 0007, 0008, 0009;  
21-04-008C-0058-0000;  
21-04-008C-0049-0001;  
21-04-008C-0052-0001, 0002;  
21-05-0002-0021-0001;  
21-04-008C-0033-0001, 0010, 0012,  
0009, 0008, 0005, 0006,  
0007, 0004, 0003, 0002, 0000;  
21-04-008C-0047-0000; 04-0008C-0047  
0001; 04-008C-0047-0002, 0003, 0004;  
21-04-008C-0034-0000;  
21-04-0008C-0026-0000

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|--|---|---|------------|-----|
| DOMINION ENERGY TRANSMISSION, INC.           | HG ENERGY II APPALACHIA, LLC                | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | 1601       | 581 |
| ISAAC JACKSON                                | SOUTH PENN OIL COMPANY                      | NOT LESS THAN 1/8                                   | 58         | 431 |
| SOUTH PENN OIL COMPANY                       | HOPE NATURAL GAS COMPANY                    | ASSIGNMENT (GAS)                                    | 73         | 272 |
| HOPE NATURAL GAS COMPANY                     | JANE LEW LIGHT AND HEAT COMPANY             | ASSIGNMENT (5 ACRES OF LEASEHOLD)                   | 113        | 315 |
| JANE LEW LIGHT AND HEAT COMPANY              | STANDARD GAS COMPANY                        | ASSIGNMENT  | 113        | 361 |
| HOPE NATURAL GAS COMPANY                     | CONSOLIDATED GAS SUPPLY CORPORATION         | MERGER/NAME CHANGE                                  | 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                 | CNG DEVELOPMENT COMPANY                     | JOINT VENTURE AGREEMENT                             | UNRECORDED |     |
| CNG TRANSMISSION CORPORATION                 | CNG DEVELOPMENT COMPANY                     | ASSIGNMENT  | 477        | 430 |
| EMAX OIL COMPANY                             | CABOT OIL AND GAS CORPORATION               | FARMOUT AGREEMENT                                   | UNRECORDED |     |
| EMAX OIL COMPANY                             | CABOT OIL AND GAS CORPORATION               | ASSIGNMENT  | 513        | 93  |
| CABOT OIL AND GAS CORPORATIN                 | ENERVEST APPALACHIA, L.P.                   | ASSIGNMENT  | 558        | 249 |
| CNG TRANSMISSION CORPORATION                 | CNG PRODUCING COMPANY                       | ASSIGNMENT  | 522        | 528 |
| CNG TRANSMISSION CORPORATION                 | EMAX OIL COMPANY                            | WELLBORE ASSIGNMENT                                 | 522        | 189 |
| CNG TRANSMISSION CORPORATION                 | GAS EXPLORATION AND DEVELOPMENT COMPANY     | ASSIGNMENT  | 554        | 605 |
| CNG TRANSMISSION CORPORATION                 | DOMINION TRANSMISSION, INC.                 | MERGER/NAME CHANGE                                  | WVSOS      |     |
| DOMINION TRANSMISSION, INC.                  | CNX GAS COMPANY LLC                         | FARMOUT AGREEMENT                                   | 672        | 154 |
| CNX GAS COMPANY LLC                          | NOBLE ENERGY, INC.                          | LIMITED PARTIAL ASSIGNMENT (50%)                    | 684        | 57  |
| DOMINION TRANSMISSION, INC.                  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.  | PARTIAL ASSIGNMENT (32%)                            | 712        | 848 |
| CNX GAS COMPANY LLC                          | NOBLE ENERGY, INC.                          | ASSIGNMENT  | 717        | 1   |
| CNX GAS COMPANY LLC                          | NOBLE ENERGY, INC.                          | CORRECTIVE ASSIGNMENT TO DB 717-1                   | 725        | 784 |
| NOBLE ENERGY, INC.                           | HG ENERGY II APPALACHIA, LLC                | ASSIGNMENT  | 722        | 170 |
| DOMINION TRANSMISSION INC.                   | DOMINION ENERGY TRANSMISSION, INC.          | MERGER/NAME CHANGE                                  | WVSOS      |     |
| DOMINION ENERGY TRANSMISSION, INC.           | HG ENERGY II APPALACHIA, LLC                | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | 723        | 499 |
| DOMINION ENERGY TRANSMISSION, INC.           | HG ENERGY II APPALACHIA, LLC                | AMENDED AND RESTATED PARTIAL ASSIGNMENT             | 723        | 527 |
| JAMES W. JACKSON AND S. A. JACKSON, HIS WIFE | SOUTH PENN OIL COMPANY                      | NOT LESS THAN 1/8                                   | 58         | 425 |
| SOUTH PENN OIL COMPANY                       | HOPE NATURAL GAS COMPANY                    | ASSIGNMENT (GAS)                                    | 73         | 272 |
| 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                         | FARMOUT AGREEMENT                                   | 672        | 154 |
| SOUTH PENN OIL COMPANY                       | PENNZOIL COMPANY                            | MERGER/NAME CHANGE                                  | 5          | 564 |
| PENNZOIL COMPANY                             | PENNZOIL PRODUCTS COMPANY                   | ASSIGNMENT  | 454        | 34  |
| PENNZOIL COMPANY                             | PENNZOIL PRODUCTS COMPANY                   | ASSIGNMENT  | 460        | 139 |
| PENNZOIL PRODUCTS COMPANY                    | PENNZOIL EXPLORATION AND PRODUCTION COMPANY | ASSIGNMENT  | 551        | 627 |
| PENNZOIL EXPLORATION AND PRODUCTION COMPANY  | PENNZENERGY EXPLORATION AND PRODUCTION, LLC | MERGER/NAME CHANGE                                  | 8          | 343 |
| DOMINION TRANSMISSION, INC.                  | CNX GAS COMPANY LLC                         | FIRST AMENDMENT TO FARMOUT AGREEMENT                | 1524       | 491 |
| CNX GAS COMPANY LLC                          | NOBLE ENERGY, INC.                          | LIMITED PARTIAL ASSIGNMENT (50%)                    | 684        | 57  |
| DOMINION TRANSMISSION, INC.                  | CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.  | PARTIAL ASSIGNMENT (32%)                            | 712        | 848 |
| CNX GAS COMPANY LLC                          | NOBLE ENERGY, INC.                          | ASSIGNMENT  | 717        | 1   |
| NOBLE ENERGY, INC.                           | HG ENERGY II APPALACHIA, LLC                | ASSIGNMENT  | 722        | 170 |
| DOMINION TRANSMISSION INC.                   | DOMINION ENERGY TRANSMISSION, INC.          | MERGER/NAME CHANGE                                  | WVSOS      |     |
| DOMINION ENERGY TRANSMISSION, INC.           | HG ENERGY II APPALACHIA, LLC                | SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT | 723        | 499 |
| DOMINION ENERGY TRANSMISSION, INC.           | HG ENERGY II APPALACHIA, LLC                | AMENDED AND RESTATED PARTIAL ASSIGNMENT             | 723        | 527 |

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Environmental Protection

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p/o 17-12-0465-0004-0000;  
p/o 17-12-0465-0004-0001;  
21-04-008C-0049-0001;  
21-04-008C-0049-0002;  
21-04-008C-0052-0000;  
21-04-008C-0052-0001;  
21-04-008C-0052-0002;  
21-04-008C-0055-0000;  
21-04-008C-0055-0001;  
21-04-008C-0055-0002;  
21-04-008C-0055-0003

Q101005000



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

47 03 305966

June 21, 2019

Laura Adkins  
WV DEP  
Division of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, WV 25304

RE: Drilling Under Roads – Nutter 1208 S-9H  
Union District, Harrison County  
West Virginia

Dear Ms. Adkins:

HG Energy II Appalachia, LLC, has the right to drill, stimulate and produce wells that are drilled under the County and State Roads as designated on the plats.

Should you have any questions or desire further information, please contact me at [dwhite@hgenergyllc.com](mailto:dwhite@hgenergyllc.com) or 304-420-1119.

Very truly yours,

*Diane White*

Diane C. White

Enclosures

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JUL 12 2019  
WV Department of  
Environmental Protection

WW-6AC  
(1/12)

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

Date of Notice Certification: 06/21/2019

API No. 47- \_\_\_\_\_ - \_\_\_\_\_

Operator's Well No. Nutter 1208 S-9H

Well Pad Name: Nutter Well Pad

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

|             |                               |                           |           |                  |
|-------------|-------------------------------|---------------------------|-----------|------------------|
| State:      | <u>West Virginia</u>          | UTM NAD 83                | Easting:  | <u>549834.7</u>  |
| County:     | <u>Harrison</u>               |                           | Northing: | <u>4333935.2</u> |
| District:   | <u>Grant</u>                  | Public Road Access:       |           | <u>SR 19</u>     |
| Quadrangle: | <u>West Milford</u>           | Generally used farm name: |           | <u>Nutter</u>    |
| Watershed:  | <u>Middle West Fork Creek</u> |                           |           |                  |

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten 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  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)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

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**JUL 12 2019**  
WV Department of  
Environmental Protection

**OOG OFFICE USE ONLY**

- RECEIVED/  
NOT REQUIRED
- RECEIVED
- RECEIVED/  
NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

**Required Attachments:**

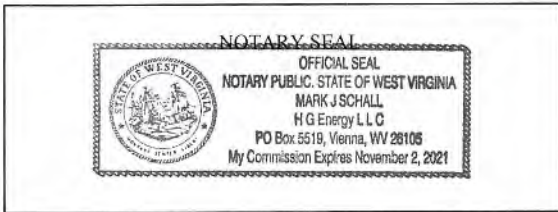
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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: | <u>HG II Appalachia, LLC</u>          | Address:   | <u>5260 Dupont Road</u>       |
| By:            | <u>Diane White <i>Diane White</i></u> |            | <u>Parkersburg, WV 26101</u>  |
| Its:           | <u>Agent</u>                          | Facsimile: | <u>304-863-3172</u>           |
| Telephone:     | <u>304-420-1119</u>                   | Email:     | <u>dwhite@hgenergyllc.com</u> |



Subscribed and sworn before me this 21st day of June, 2019.

*Mark J Schall* Notary Public

My Commission Expires 11/2/2021

**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](mailto:depprivacyofficer@wv.gov).

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**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 than the **filing date of permit application.**

**Date of Notice:** 07/09/2019 **Date Permit Application Filed:** 07/15/2019

**Notice of:**

- PERMIT FOR ANY WELL WORK       CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE       REGISTERED MAIL       METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b), no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner.

**Notice is hereby provided to:**

SURFACE OWNER(s)  
Name: Lisa Nutter (Surface, Road, Water)  
Address: 382 Hidden Valley Road  
Jane Lew, WV 26378

Name: William W. & Linda Broadwater (Surface and Water Well)  
Address: 132 Praise Lane  
Jane Lew, WV 26378

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: See Above  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments/Pits)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

WATER PURVEYOR(s)  
Name: See Above  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: Dominion Energy Transmission - Attn: Ron Waldren  
Address: 925 White Oaks Blve  
Bridgeport, WV 26330

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\*Please attach additional forms if necessary



47 03 305966

WW-6A  
(5-12)

API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. Nutter 1208 S-9H  
Well Pad Name: Nutter 1208

**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 erosion 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 also 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.

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

**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.

**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.

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**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 wellpad 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 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.

**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 57<sup>th</sup> 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.**

**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.

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**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(c), 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:

WV Department of Environmental Protection

- (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.

WW-6A  
(5-12)

API NO. 47 03305966  
OPERATOR WELL NO. Nutter 1208 S-9H  
Well Pad Name: Nutter 1208

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.

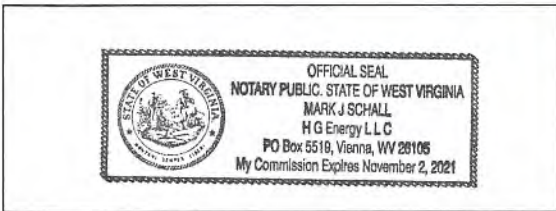
**Notice is hereby given by:**

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: 304-863-3172

**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](mailto:deprivacyofficer@wv.gov).

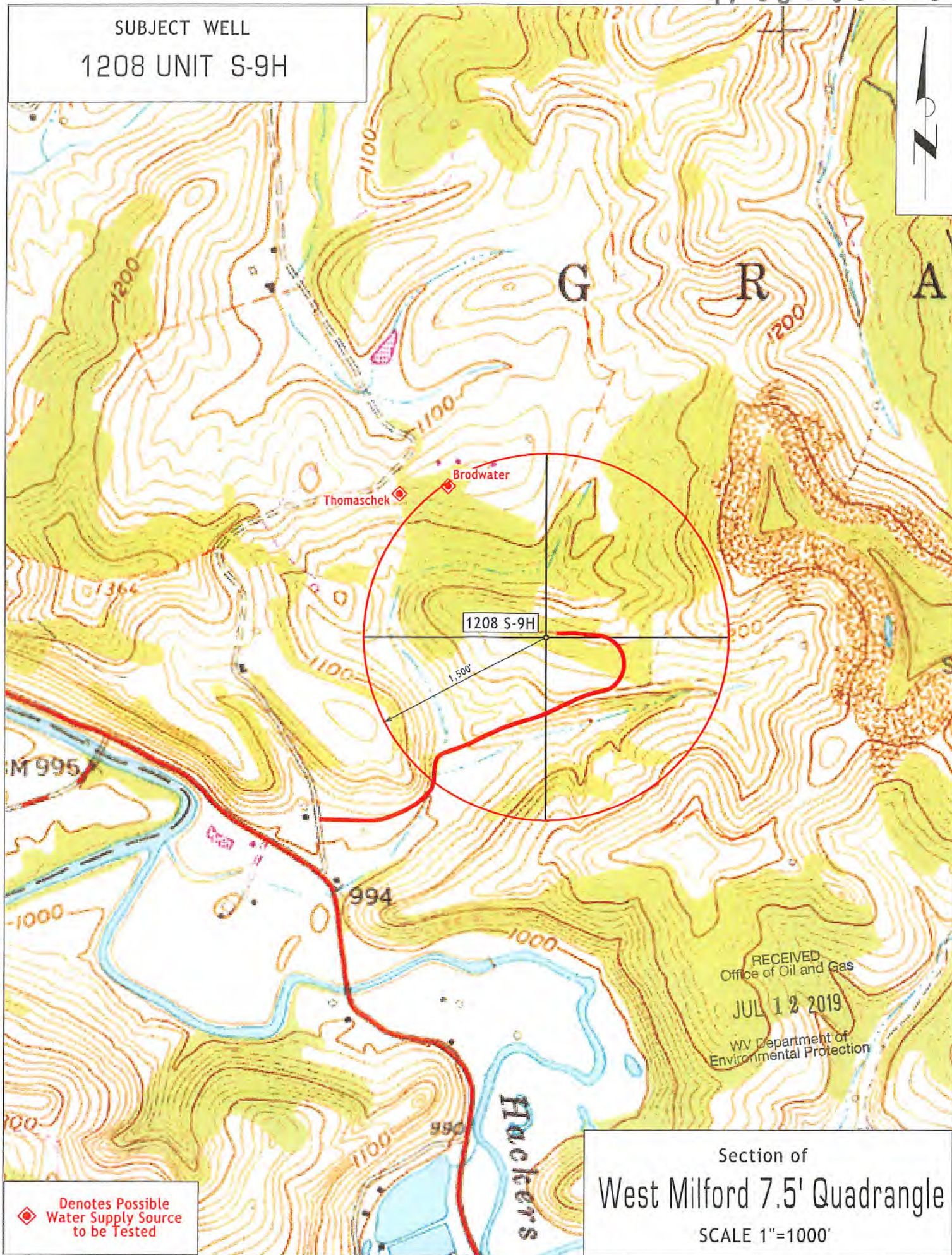


Subscribed and sworn before me this 9<sup>th</sup> day of July, 2019.  
*Mark J Schall* Notary Public  
My Commission Expires 11/2/2021

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SUBJECT WELL  
1208 UNIT S-9H



◆ Denotes Possible  
Water Supply Source  
to be Tested

Section of  
West Milford 7.5' Quadrangle  
SCALE 1"=1000'

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

**Notice Time Requirement:** Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

**Date of Notice:** 5/31/2019      **Date of Planned Entry:** 6/07/2019

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

- PERSONAL SERVICE     
  REGISTERED MAIL     
  METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: Lisa M. Nutter

Address: 382 Hidden Valley Road  
Jane Lew, WV 26378

Name: William W. & Linda Broadwater

Address: 132 Praise Lane  
Jane Lew, WV 26378

Name: \_\_\_\_\_

Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: \_\_\_\_\_

Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: \*\*See Attached Sheets\*\*

Address: \_\_\_\_\_

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

|                                 |  |
|---------------------------------|--|
| State: <u>West Virginia</u>     | Approx. Latitude & Longitude: <u>39.153193 / 80.423243</u> |
| County: <u>Harrison</u>         | Public Road Access: <u>SR 19/ Hackers Creek Road</u>       |
| District: <u>Grant</u>          | Watershed: <u>Middle West Fork Creek</u>                   |
| Quadrangle: <u>West Milford</u> | Generally used farm name: <u>Nutter</u>                    |

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: HG Energy II Appalachia, LLC

Telephone: 304-420-1119

Email: dwhite@hgenerallylc.com

Address: 5260 Dupont Road  
Parkersburg, WV 26101

Facsimile: 304-863-3172

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**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](mailto:depprivacyofficer@wv.gov).



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

47 03 305966

May 31, 2019

RE: Nutter 1208 Well Pad (S-6H thru S-10H)  
Grant District, Harrison County  
West Virginia

To Whom It May Concern:

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). Your rights as a royalty owner can be obtained from the Secretary at the WVDEP at 304-926-0450.

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

Enclosures

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WW-6A31208S 9H(1-12)Page 1 ContinuedMineral Owners

Ann Brashear Fitzgerald  
625 Windsor PL.  
Tyler, TX 75701

Ann Covington  
1401 Torrey Pines Dr  
Columbia, MO 65203-4825

Argent Trust Company  
Agent for Mary V. Gray Trust 1983  
c/o David M. Gray  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Charles L Maxwell  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for David Maxwell Gray  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Deborah Bell Meyer  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Donna Frumento  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Elizabeth A Beveridge  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Jane M Hardin  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for JR Gray Koubek & TD Koubek  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Joseph L Maxwell  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Karen M Henderson  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Kimberlee K Holland  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Pamela Voigt  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

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(1-12)

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Page 1 Continued

Mineral Owners

Argent Trust Company  
Agent for Piala Living Trust  
c/o Vanessa Jo Piala  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Robert Nimorwic  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Steven L Maxwell  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Argent Trust Company  
Agent for Susan Brown Yunker  
621 N. Robinson, Suite 100  
Oklahoma City, OK 73102

Betty G Justice  
2839 Rifle Ridge Rd  
Oakton, VA 22124

Beverly Mae Street  
9062 Water Tupelo Road  
Fort Myers, FL 33912

Broad Run Baptist Church  
PO Box 542  
Jane Lew, WV 26378

Broad Run Baptist Church  
Cemetery Association  
PO Box 504  
Jane Lew, WV 26378

Buckner W Hornor  
6904 Cortez Rd West, Lane 4, Unit 28  
Bradenton, FL 34210

C J Martin, II  
PO Box 788  
Buckhannon, WV 26201

Carol Ann Hurst  
132 Poplar Loop Drive  
Flat Rock, NC 28731

Carolyn Louise Street  
205 Hidden Meadows Circle  
Renfrew, PA 16053

Catherine E Davisson  
83 Cameron Rd  
Clarksburg, WV 26301

Cathy L Watson  
PO Box 764  
Jane Lew, WV 26378

Celia Linn Ferrell Baiker  
5958 Chestnut CT  
Virginia Beach, VA 45424

Chandra D Beam  
PO Box 382  
Jane Lew, WV 26378

Charles E Garton Trust  
PO Box 1234  
Weston, WV 26452

Cora A. Mearns  
2111 Maplewood Drive  
Bridgeport, WV 26330

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(1-12)

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Page 1 Continued

Mineral Owners

Cora Ann Mearns  
1000 Maplewood Dr , Apt 2111  
Bridgeport, WV 26330

Dale R. Holden  
904 Kincheloe Road  
Jane Lew, WV 26378

David Neely Thrush  
865 Seddon Cove Way  
Tampa, FL 33602

Deborah Nay Stutler  
9967 WV Route 18S  
New Milton, WV 26411

Delores Jean Moats  
90 Kincaidville Road  
Walkersville, WV 26447

Donald R Wilson  
212 NE 56th St  
Oak Island, NC 28465-4919

Donna L Hutton  
828 Tremont Ave  
Lexington, KY 40502-2234

Eric R. Smith  
1608 Smith Run Road  
Weston, WV 26452

Frank H. Neely  
21 Belmeade Terrace  
Uniontown, PA 15401-5237

Geneva Bruffey  
500 Henrie Lane  
Williamstown, WV 26187

George A. Orr IV  
Laura June Hudson AIF  
6221 East Blanche Drive  
Scottsdale, AZ 85254

Gore Corporation  
P.O. Box 2101  
Charleston, WV 26302

Gregory and Trisha Hurd  
PO Box 714  
Jane Lew, WV 26378

I L Morris  
PO Box 397  
Glenville, WV 26351

Iden Scott McWhorter  
1661 LaFrance St Ne, Unit 314  
Atlanta, GA 30307

J Gregory and Rebecca Moore  
194 Maple Lake  
Bridgeport, WV 26330

Jack T Street Residuary Trust Fund B  
205 Hidden Meadows Circle  
Renfrew, PA 16053

Jackson L Smith  
PO Box 457  
Lost Creek, WV 26385

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Page 1 Continued

Mineral Owners

James A. Harmer Testamentary Trust  
12500 Richmond Run  
Raleigh, NC 27614

James R. Kettering Jr.  
122 Center Court  
Bridgeport, WV 26330

James Y and Jean S Hornor  
5002 Esmond Lane  
Castle Rock, CO 80108-9027

Jane Elizabeth Horn  
958 McCanns Run Road  
Jane Lew, WV 26378

Jane Elizabeth Thrush  
49 Buckeye Ave  
Oakland, CA 94618

Jane Lew Water Commission  
PO Box 845  
Jane Lew, WV 26378

Jeffrey Alan Street  
6017 Pine Ridge Road Suite 190  
Naples, FL 34119

Jesse Delbert Smallwood  
PO Box 729  
Marianna, FL 32446

Jill Lambert  
219 Ballantrae St  
Valparaiso, IN 46385

John Allman  
P.O. Box 490  
Jane Lew, WV 26378

John Henry McWhorter  
5392 Duck Creek Road  
Lost Creek, WV 26385

John P. Hutton  
1906 Oak Ridge Dr  
Charleston, WV 25311

Julie D McWhorter  
PO Box 447  
Jane Lew, WV 26378

Kenneth Allman  
1442 Kesling Mill Road  
Buckhannon, WV 26201

Larry Robert Street  
111 Dale Wood Drive  
Lavalette, WV 25535

Laura J. Hudson  
6221 East Blanche Drive  
Scottsdale, AZ 85254

Lawrence Blair Thrush, Jr  
9 Fox Chase Road  
Charleston, WV 25304-2755

Lawton Family Trust  
1228 N. Park Ave  
Winter Park, FL 32789-2542

Lewis County Board of Education  
358 Court Ave  
Weston, WV 26452

Lonnie C. Paugh and Karen L. Paugh  
PO Box 573  
Jane Lew, WV 26378

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WW-6A31208S 9H(1-12)Page 1 ContinuedMineral Owners

Lonnie Kincaid  
308 Rider Avenue  
Clarksburg, WV 26301

Lonnie Kincaid  
28 Bablin Ingo Road  
Ireland, WV 26376

Lucille Davisson  
1108 Oakbridge Drive  
Hurricane, WV 25526-8838

Lundy H and Deborah H McMillion  
101 Locust St  
Jane Lew, WV 26378

Margaret Jill Justice Lambert  
219 Ballantrae Street  
Valparaiso, IN 46385

Mark Fitzpatrick  
84 Keith Fork Road  
Weston, WV 26452

Mary H Balmer  
619 Ohio Ave  
Eustis, FL 32726-5121

Mary Jane Lewis  
PO Box 504  
Lost Creek,, WV 26385

Mary Louise Thrush McDowell  
2607 West 16th St  
Wilmington, DE 19806

Matthew William Street  
13761 Fieldshire Terrace  
Carmel, IN 46074

Mike Ross Inc  
PO Box 880  
Glenville, WV 26351

Mike Ross Inc  
PO Box 219  
Coalton, WV 26257

Mildred L. Haller  
608 Center Ave  
Weston, WV 26452

Page Harmer Thomas  
714 Shamrock Lane  
Charleston, South Carolina 29412

Paul Allen Hornor Jr.  
122 Center Court  
Bridgeport, WV 26330-6749

Paul Allman  
P.O. Box 18  
Jane Lew, WV 26378

Paul Allman  
c/o John Allman  
P.O. Box 490  
Jane, Lew, WV 26378

Peter K Thrush  
1168 Halleck Road  
Morgantown, WV 26508-2370

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Mineral Owners

R L Roberts  
2871 West Virginia HWY 5 W  
Glennville, WV 26351-7727

Robert Allman  
c/o John Allman  
285 Second Street  
Jane Lew, WV 26378

Robert T Allman  
290 Johnstown Road  
Lost Creek, WV 26385

Robert T and Cynthia M Swiger  
PO Box 908  
Jane Lew, WV 26378

Roger Justice  
877 Plymouth Rd NE  
Atlanta, GA 30306

Shayne P Baldwin  
PO Box 872  
Jane Lew, WV 26378

Sidney Wallace Street  
2863 Yajoa Place  
Hacienda Heights, CA 91745

Stephanie A. Snow-McKisic  
PO box 767  
Jane Lew, WV 26378

Suzanne Louise Street  
174 Willamette Drive  
Bear, DE 19701

Thom William Street  
316 Morgan Circle North  
Lehigh Acres, FL 33936

Thomas E and Terri E Hawkins  
7865 US Highway 19 North  
Jane Lew, WV 26378-7931

Thomas Earl Thrush  
2300 McFarlin Road  
Nolensville, TN 37135

Thomas H. Wilson  
1412 Western Ave  
Morgantown, WV 26505-2148

Trina Noreene Smallwood  
4444 River Forest Road  
Marianna, FL 32446

Vivian Dianne Evert  
828 Hidden Lake Road  
Roberts, WI 54032

Walter Parke Thrush  
263 Glen Abbey Lane  
Clarksburg, WV 26301

Waymon B. Kincaid  
3999 Georgetown Road  
Horner, WV 26372

Wesley Craft Brashear, Jr.  
12205 Creek Point Dr  
Frisco, TX 75035

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Mineral Owners

Willard H and Judy McWhorter  
2042 Elk City Rd  
Jane Lew, WV 26378

William C. White  
PO Box 770  
Jane Lew, WV 26378

William Edward Watson  
800 Main Street  
Wellsburg, WV 26070

William R. Stalnaker  
160 Stalnaker Estates  
Glennville, WV 26351-7727

Zane Anthony Justice  
2706 Algonquin Ave  
Ashland, KY 41102

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

47 03 305966

August 10, 2018

Re: Lease Boundary Surveys – 1208 Drilling Unit

To: Landowners Located within the 1208 Drilling Unit:

HG Energy II Appalachia, LLC (HG) is planning to drill a Marcellus well in Harrison and Lewis Counties, WV. Your property has been identified as being located within the proposed drilling unit area.

HG has contracted with Allegheny Surveys, Inc. (ASI) of Bridgeport, WV to accurately locate and map HG's lease boundaries in the drilling unit. This letter is provided as authorization for ASI to act as agent on behalf of HG to survey and map HG's lease boundaries in preparation for the prospective well work permit.

As agent for HG, ASI is expected conduct its operations in a safe, courteous and respectful manner. If you have any problems with the survey crew on your property, or if you have any questions regarding HG's operations, you may call me at 304-420-1120 to discuss.

Thanks you for your cooperation with us during this project.

Respectfully,

Timothy P. Roush, PS

Operations Land Manager  
*HG Energy II Appalachia, LLC*  
5260 Dupont Road  
Parkersburg, WV 26101

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**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 Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 06/20/2019      **Date Permit Application Filed:** 06/30/2019

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

HAND DELIVERY       CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Lisa M. Nutter  
Address: 382 Hidden Valley Road  
Jane Lew, WV 26378

Name: William W. & Linda Broadwater  
Address: 132 Praise Lane  
Jane Lew, WV 26378

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia      UTM NAD 83      Easting: 549834.7  
County: Harrison      Northing: 4333935.2  
District: Grant      Public Road Access: SR 19  
Quadrangle: West Milford WV 7.5'      Generally used farm name: Nutter  
Watershed: Middle West Fork Creek

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: HG Energy II Appalachia, LLC  
Address: 5260 Dupont Road  
Parkersburg, WV 26101  
Telephone: 304-420-1119  
Email: dwhite@hgenergyllc.com *Diane White*  
Facsimile: 304-863-3172

Authorized Representative: Diane White  
Address: 5260 Dupont Road  
Parkersburg, WV 26101  
Telephone: 304-420-1119  
Email: dwhite@hgenergyllc.com  
Facsimile: 304-863-3172

**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](mailto:depprivacyofficer@wv.gov).

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WW-6A5  
(1/12)

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

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 06/21/2019      **Date Permit Application Filed:** 07/02/2019

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: Lisa M. Nutter  
Address: 382 Hidden Valley Road  
Jane Lew, WV 26378

Name: William W. & Linda Broadwater  
Address: 132 Praise Lane  
Jane Lew, WV 26378

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

|             |                               |                           |               |                  |
|-------------|-------------------------------|---------------------------|---------------|------------------|
| State:      | <u>West Virginia</u>          | UTM NAD 83                | Easting:      | <u>549834.7</u>  |
| County:     | <u>Harrison</u>               |                           | Northing:     | <u>4333935.2</u> |
| District:   | <u>Grant</u>                  | Public Road Access:       | <u>SR 19</u>  |                  |
| Quadrangle: | <u>West Milford WV 7.5'</u>   | Generally used farm name: | <u>Nutter</u> |                  |
| Watershed:  | <u>Middle West Fork Creek</u> |                           |               |                  |

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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: 304-863-3172

**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](mailto:depprivacyofficer@wv.gov).

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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

**June 24, 2019**

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

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

Subject: DOH Permit for the Nutter 1208 Pad, Harrison County  
S-9H Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2018-1374 issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Harrison County Route 19/20 SLS.

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.  
Regional Maintenance Engineer  
Central Office O&G Coordinator

Cc: Diane C. White  
HG Energy II, LLC  
CH, OM, D-6  
File

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**List of Frac Additives by Chemical Name and CAS #****Nutter 1208 Well Pad (N-1H to N-5H, S-6H to S-10H)**

| Chemical Name               | CAS #      | Multiple CAS #'s  |
|-----------------------------|------------|---|
| Pro Shale Slik 405          | Mixture    | 68551-12-2<br>7647-14-5<br>12125-02-9<br>64742-47-8                     |
| Pro Hib II                  | Mixture    | 68412-54-4<br>68607-28-3<br>107-21-1<br>111-76-2<br>67-56-1<br>107-19-7 |
| Silica Sand and Ground Sand | Mixture    | 14808-60-7<br>1344-28-1<br>1309-37-1<br>13463-67-7                      |
| Hydrochloric Acid 22 DEG BE | 7647-01-0  |   |
| PROGEL - 4.5                | 64742-96-7 |   |
| BIO CLEAR 2000              | Mixture    | 25322-68-3<br>10222-01-2  |
| SCALE CLEAR SI 112          | 107-21-1   |   |
| PROBREAK 4                  | Mixture    | 57-50-1<br>107-21-1   |
| Sulfamic Acid               | 5329-14-6  |   |
| PRO - Flow - 102-N          | Mixture    | 67-63-0<br>68439-45-2<br>2687-96-9                                      |
| PROGEL - 4                  | 9000-30-0  |   |

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# CONSTRUCTION IMPROVEMENT PLANS WITH EROSION AND SEDIMENT CONTROLS HG 1208 WELL PAD

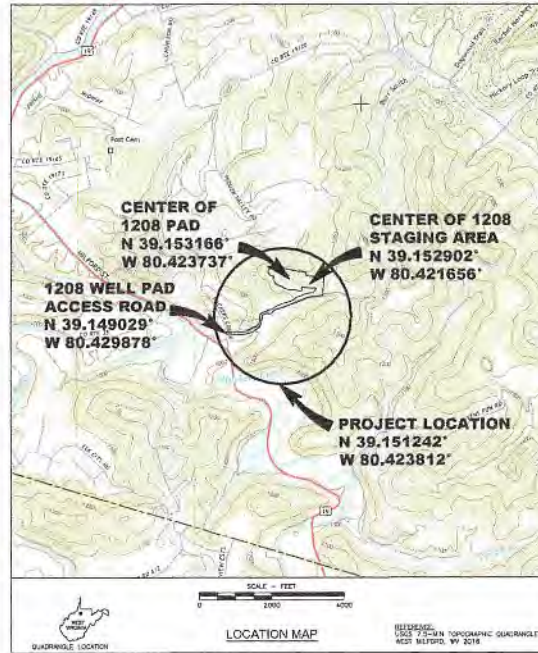


## GRANT DISTRICT HARRISON COUNTY WEST VIRGINIA

| Estimated Gross Material Balance (CY)   |               |               |           |
|---|---------------|---------------|-----------|
| Final Development - Gravel Option   |               |               |           |
|   | Cut           | Fill          | S         |
| 1208 Well Pad & Staging Area  | 56,052        | 65,513        | -1        |
| Access Road   | 8,695         | 9,664         | -1        |
| <b>Total</b>  | <b>65,149</b> | <b>75,177</b> | <b>-1</b> |
| Soil Adjustment for Aggregate Import:   |               |               |           |
| Pad   |               |               | 1         |
| <b>Total Site Balance:</b>  |               |               | <b>2</b>  |
| Snapped Topsoil (Limit of Disturbance)  |               |               |           |
| Est. Swell Factor (20%)   |               |               |           |
| Est. Topsoil Stockpile Volume (Loose CY)  |               |               |           |
| Minimum Total Stockpile Capacity Required (C.Y.)  |               |               | 2         |
| Notes:  |               |               |           |
| 1. Material balance for est. gross earthwork quantities only.   |               |               |           |
| 2. Topsoil est. volume based on 6 inches average depth.   |               |               |           |
| 3. Material balance and aggregate quantities based on cut and may not be representative of actual quantities. |               |               |           |
| 4. Estimates do not reflect contractor peak volumes.  |               |               |           |
| Estimated Gravel Quantities   |               |               |           |
|   | 100 W-#       | 100# Steep    | Area      |
| 8" Soil Cement (Placed SY)  | 30,111        | 14,147        | 9.67      |
| 3' Depth of 3/4" Crusher Run (Tons)   | 3,262         | 1,533         | -         |
| Top Coat Chiz & Seal (10000 SY)   | -             | -             | 0.87      |
| Estimated Total Concrete Filter Sock Length (LF)  |               |               |           |
| Estimated Access Road Fibre Sock Length (LF)  |               |               |           |
| Estimated Well Pad and Staging Area Filter Sock Length (LF)   |               |               |           |
| Estimated Total Limit of Disturbance (Acres)  |               |               |           |
| Estimated Access Road Limit of Disturbance (Acres)  |               |               |           |
| Estimated Well Pad and Staging Area Limit of Disturbance (Acres)  |               |               |           |
| Well Pad and Staging Area Peak Pre-Construction Elevation (F)   |               |               |           |

### CONSTRUCTION SEQUENCE

1. Prior to commencement of any earth disturbance activity including clearing and grubbing, the registrant shall call West Virginia 811 by dialing 811 or 1-800-245-4848 to identify all utility lines. The registrant also must clearly delineate sensitive areas, riparian forest buffer boundaries, the limits of clearing, and trees that are to be conserved within the project site, and shall install appropriate barriers where equipment may not be parked, staged, operated or located for any purpose.
2. Site access - This is the first land-disturbance activity to take place at the site and should provide BMPs to minimize accelerated erosion and sedimentation from the following areas: entrance to the site, construction routes, and areas designated for equipment or other use at the site including parking, stockpiles.
3. Sediment Barriers - Install perimeter BMPs after the construction site is accessed, keeping associated clearing and grubbing limited to only that amount required for installing perimeter BMPs.
4. Land Clearing and Grading - Implement clearing 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 areas where work has reached final grade, has been delayed or otherwise temporarily suspended.
6. Construction of Buildings, Utilities, and Paving - During construction, install and maintain any additional erosion and sediment control BMPs, and implement any structural post construction stormwater BMPs that may be required.
7. Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
8. Final Stabilization, Topsoiling, Trees and Shrubs - After construction is completed, install stabilization BMPs including: permanent seeding, mulching and riprap, and complete implementation of stormwater BMPs in this last construction phase. Stabilize all open areas, including borrow and spoil areas, and remove all temporary BMPs and stabilize any disturbances associated with the removal of the BMP.



| SHT. NO. | SHEET TITLE                  |
|----------|------------------------------|
| 1        | TITLE SHEET                  |
| 2A-2D    | SITE DEVELOPMENT PLANS       |
| 3A-3B    | PAD & STOCKPILE SECTIONS     |
| 4A-4C    | ACCESS ROAD SECTIONS         |
| 5A-5F    | CONSTRUCTION NOTES & DETAILS |
| 6A-6D    | RESTORATION PLAN             |
| 7        | PROPERTY MAP                 |

| WELL # | LAT.        | LONG     |
|--------|-------------|----------|
| N-1H   | N 39.153300 | W 80.424 |
| N-2H   | N 39.153340 | W 80.424 |
| N-3H   | N 39.153379 | W 80.424 |
| N-5H   | N 39.153419 | W 80.424 |
| N-4H   | N 39.153459 | W 80.424 |
| S-7H   | N 39.153074 | W 80.423 |
| S-6H   | N 39.153114 | W 80.423 |
| S-8H   | N 39.153154 | W 80.423 |
| S-9H   | N 39.153193 | W 80.423 |
| S-10H  | N 39.153233 | W 80.423 |

|                                    | LATITUDE    | LONGITUDE |
|------------------------------------|-------------|-----------|
| 1208 WELL PAD ACCESS ROAD ENTRANCE | N 39.149029 | W 80.424  |

| RECORD OWNER                       | RECORD LOT #         | RECORD AREA OF LOT | AF WITHI |
|------------------------------------|----------------------|--------------------|----------|
| MUTTER LISA M                      | 17-12-0445-0009-0000 | 105.50 AC.         | 2.11     |
| FELDT CAROL (L/E) MUTTER LISA M    | 17-12-0445-0001-0000 | 87.78 AC.          | 4.1.     |
| MUTTER LISA M                      | 17-12-0445-0010-0000 | 66.87 AC.          | 4.12     |
| BROOKWATER WILLIAM M III & LINDA L | 17-12-0445-0031-0000 | 247.84 AC.         | 11.3     |
| TOTAL LIMIT OF DISTURBANCE         |                      |                    | 22.4     |

PREPARED FOR  
**HG ENERGY II APPALACHIA, LLC**  
5260 DUPONT ROAD  
PARKERSBURG, WEST VIRGINIA 26101  
(304) 420-1100

PREPARED BY  
**PENN ENVIRONMENTAL & REMEDIATION, INC.**  
111 RYAN COURT  
PITTSBURGH, PA 15205  
(412) 722-1222

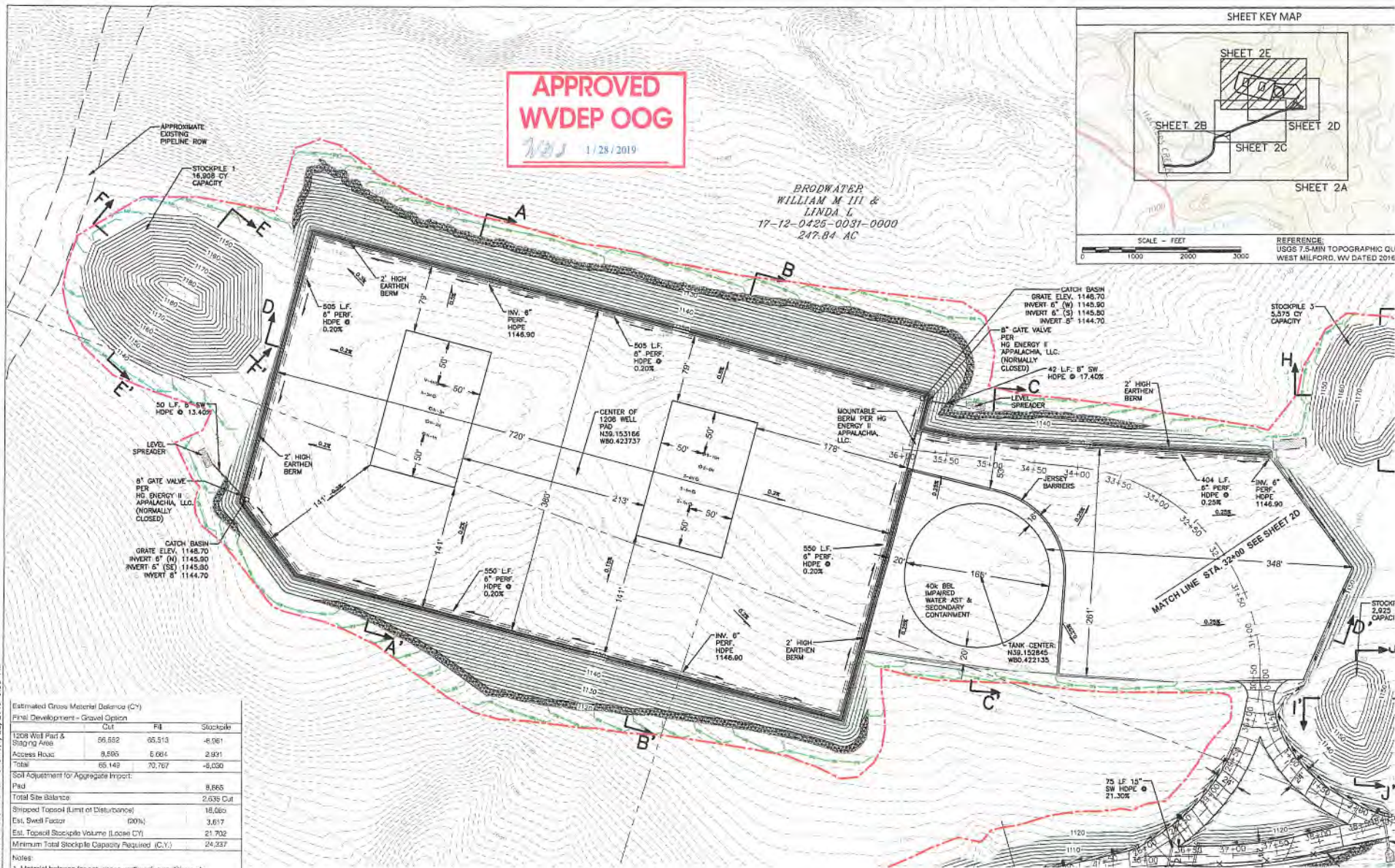
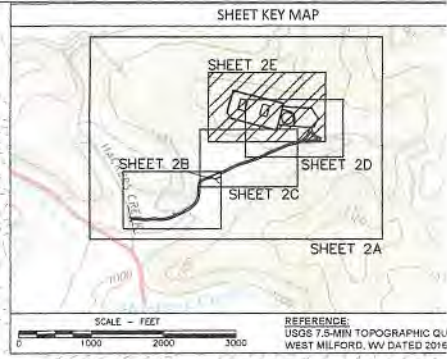
**WEST VIRGINIA 811** CALL BEFORE YOU DIG! **DI 800**

1. SERVICE UTILITY LINES ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING, AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE.



**APPROVED WVDEP OOG**  
 1/28/2019

BRODWATER  
 WILLIAM M III &  
 LINDA L  
 17-12-0425-0031-0000  
 247.04 AC



Estimated Gross Material Balance (CY)

| Final Development - Gravel Option | Cut    | Fill   | Stockpile |
|-----------------------------------|--------|--------|-----------|
| 1208 Well Pad & Staging Area      | 66,592 | 66,513 | -8,061    |
| Access Roads                      | 9,606  | 6,064  | 2,931     |
| Total                             | 65,148 | 70,767 | -5,030    |

TCM Requirement for Aggregate Import:

|  |           |
|--|-----------|
| Pad  | 8,868     |
| Total Site Balance                             | 2,635 Cut |
| Striped Topsoil (Limit of Disturbance)         | 18,080    |
| Est. Swell Factor (20%)                        | 3,617     |
| Est. Topsoil Stockpile Volume (Loose CY)       | 21,702    |
| Minimum Total Stockpile Capacity Required (CY) | 24,337    |

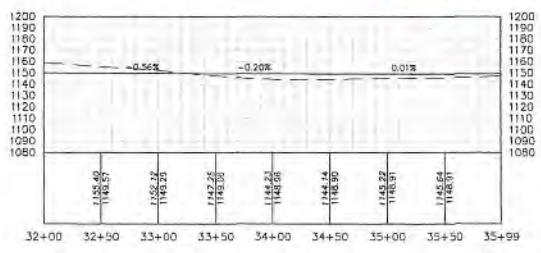
- Notes:
1. Material balance for est. gross earthwork quantities only.
  2. Topsoil est. volume based on 8 inches average depth.
  3. Material balance and aggregate quantities based on estimates and may not be representative of actual quantities.
  4. Estimates do not reflect contractor pay volumes.

Estimated Gravel Quantities

|                                     | 150' Well Pad | 750' Staging Area | Access Road | TOTAL  |
|-------------------------------------|---------------|-------------------|-------------|--------|
| 8" Soil Cement (Placed SY)          | 30,111        | 14,147            | 9,877       | 54,135 |
| 3" Depth of 3/4" Crusher Run (Tons) | 3,262         | 1,633             | -           | 4,795  |
| Top Coat Chip & Seal (Placed SY)    | -             | -                 | 9,877       | 9,877  |

Estimated Total Composite Fiber Sock Length (LF) 6,700  
 Estimated Access Road Fiber Sock Length (LF) 2,834  
 Estimated Well Pad and Staging Area Fiber Sock Length (LF) 3,936  
 Estimated Total Limit of Disturbance (Acres) 22.420  
 Estimated Access Road Limit of Disturbance (Acres) 7.021  
 Estimated Well Pad and Staging Area Limit of Disturbance (Acres) 15.289  
 Well Pad and Staging Area Peak Pre-Construction Elevation (Ft) 1162.0

| WELL # | LAT.        | LONG.       |
|--------|-------------|-------------|
| N-1H   | N 39.153300 | W 80.424351 |
| N-2H   | N 39.153340 | W 80.424337 |
| N-3H   | N 39.153379 | W 80.424324 |
| N-5H   | N 39.153419 | W 80.424310 |
| N-4H   | N 39.153459 | W 80.424296 |
| S-7H   | N 39.153074 | W 80.423284 |
| S-6H   | N 39.153114 | W 80.423270 |
| S-8H   | N 39.153154 | W 80.423256 |
| S-9H   | N 39.153193 | W 80.423242 |
| S-10H  | N 39.153233 | W 80.423228 |



COORDINATES: UTM WITH NAD 83 DATUM, ZONE 17, U.S. FOOT, CENTRAL

**WEST VIRGINIA 811** CALL BEFORE YOU DIG! **DIG 800** MISSISSIPPI

1. SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MARKING, AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE.

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