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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)

Tuesday, September 24, 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-7H  
47-033-05960-00-00

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-7H  
Farm Name: LINDA & WILLIAM W. BROOKS  
U.S. WELL NUMBER: 47-033-05960-00-00  
Horizontal 6A New Drill  
Date Issued: 9/24/2019

# 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.P.

<u>494519932</u>	<u>Harrison</u>	<u>Union</u>	<u>West Milford 7.5'</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Nutter 1208 S-7H 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: 21,307' ✓

11) Proposed Horizontal Leg Length: 13,723' ✓

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 X

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

WW-6B  
(04/15)

API NO. 47- 033 - 059101000  
 OPERATOR WELL NO. Nutter 1208 S-7H  
 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	1000'	<i>Ja. 650' 1000'</i>	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	21307'	21307'	CTS
Tubing							
Liners							

*\* See Sam Ward email attached*

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 = 1.19, tail yield 1.54
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7050 feet. Drill horizontal leg to estimated 13,723 lateral length, 21,307 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 - centralizer every 3 joints to surface.  
Coal - Blow Spring on every joint, will also be running ECP for isolating storage zone.  
Intermediate - Blow 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 PCE-PNE-1 + 0.3% bwoc RS + 1% bwoc EC1 + 0.75 gal/ksk FP13L + 0.3% bwoc MPA170. Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/ksk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.18, Tail Yield=1.54, CTS

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean of 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 mud 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.

\*Note: Attach additional sheets as needed.



1208 S-7H  
Marcellus Shale Horizontal  
Harrison County, WV

47-033-05960

Ground Elevation		1147'		1208 S-7H SHL		1208 S-7H LP		1208 S-7H BHL		14218875.58N 1803904.66E		14218219.64N 1803177.37E		14203239N 1808689.86E	
Azim		159.798°		1208 S-7H SHL		1208 S-7H LP		1208 S-7H BHL		14218875.58N 1803904.66E		14218219.64N 1803177.37E		14203239N 1808689.86E	
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	26"	20" 94# J-55	Fresh Water	0	135, 500	AIR	15.0 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi					
X	17.5"	13-3/8" 68# J-55 BTC	Coal/Fresh Water Protection	0	815	AIR	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on every joint <i>Will also be running ACP for isolating storage zones*</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 Burst=3450 psi					
X	12.25"	9-5/8" 40# J-55 BTC	Little/Big Lime Injun / Gamiz (Storage) Intermediate 1	0	1301 / 1393 1499 / 1740 1900	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and circulate mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=3950 psi					
X	8.5" Vertical	5-1/2" 23# P-110 HP CDC HTQ	Speechley Balltown Benson West Falls Rhinesireet Cashaqua Middlesex West River Burkett Tully Limestone Hamilton Marcellus TMD / TVD (Production) Onondaga	2895 3115 4200 4770 6015 6290 6491 6491 6571 6664 6664 6690 6794 7013 7064 21307 7064	2913 3155 4233 6015 6290 6491 6571 6664 6690 6794 7013 7064 7050	AIR / 9.0ppg SOB	Lead: 14.5 ppg POZ/PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	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.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note: Actual centralizer schedules may be changed due to hole conditions					
X	8.5" Lateral	5-1/2" 23# P-110 HP CDC HTQ	Onondaga	7064	7064	11.5ppg-12.5ppg SOB									

LP @ 7050' TVD / 7584' MD  
8.5" Hole - Cemented Long String  
5-1/2" 23# P-110 HP CDC HTQ

+/-13723' ft Lateral  
TD @ +/-7050' TVD  
+/-21307' MD  
X=centralizers

**Adkins, Laura L**

---

**From:** Ward, Samuel D  
**Sent:** Thursday, August 29, 2019 4:25 PM  
**To:** Adkins, Laura L  
**Subject:** HG 1208 Mods

Laura,

Per our discussion earlier today, I am okay with the fresh water casing modification to 1,000'.

Sam

Get [Outlook for iOS](#)





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

AOR

33-05960

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



33-05960

**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

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

33-05960

June 24, 2019

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

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

33-05900

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  
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June 24, 2019

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

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33-05960



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

June 24, 2019

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

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

33-08960

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)  
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.

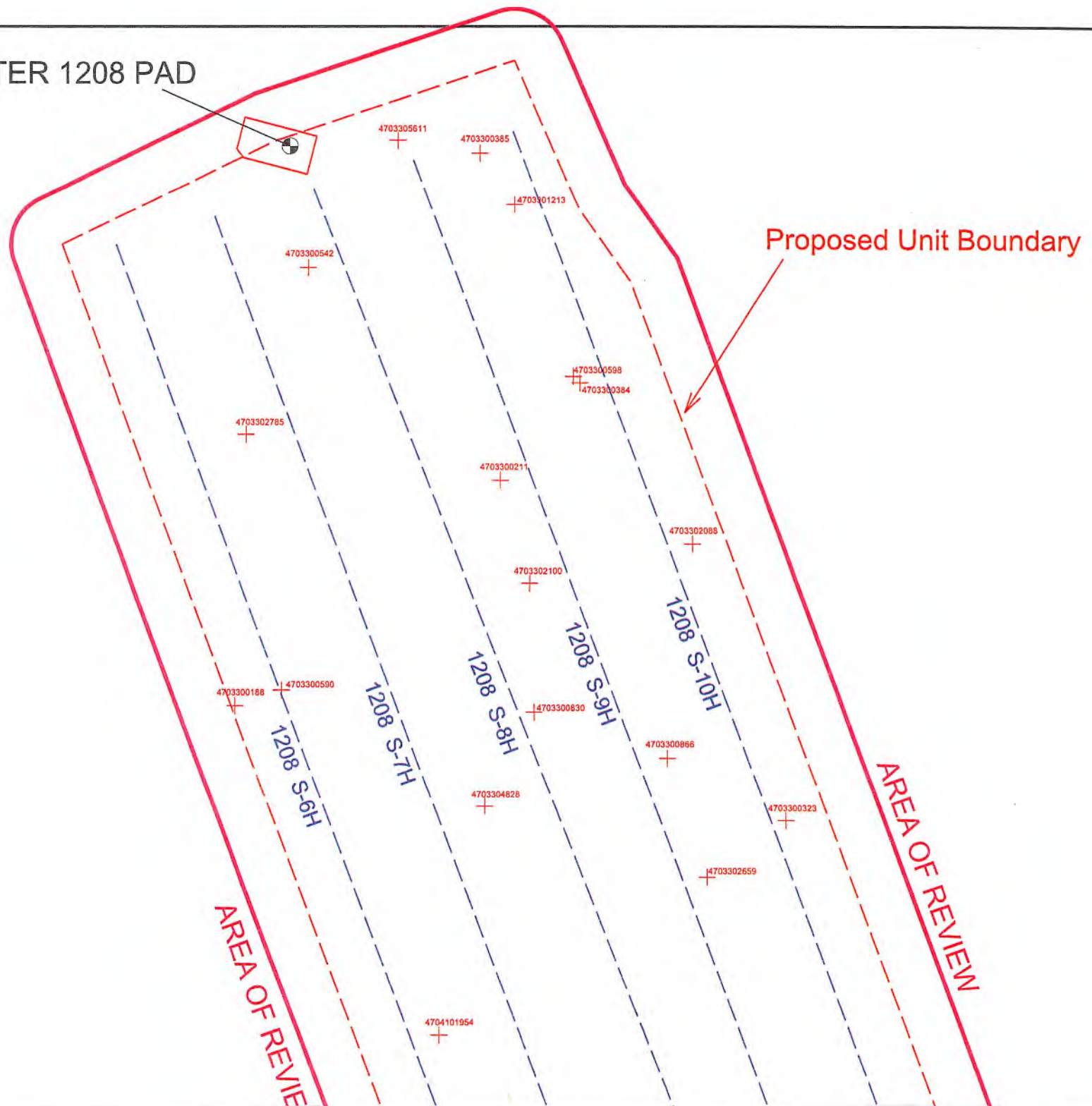
Should you have any questions or desire further information, please contact me at 304-420-1119 or [dwhite@hgenergyllc.com](mailto:dwhite@hgenergyllc.com). You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Enclosure

NUTTER 1208 PAD



AREA OF REVIEW

AREA OF REVIEW

33-05960

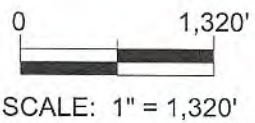


Proposed Wellbores →

**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

33-05960

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	39.135017	-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	39.153261	-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	Everest Operating, LLC	Brallier	Gas	5350	Active	39.114216	-80.406457
27	4704103921	Lewis	L.L. Moss	Everest Operating, LLC	Benson	Gas	4259	Active	39.116972	-80.405714
28	4704104010	Lewis	William Watson	Everest 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

SOURCE: WVGES DATASET (2018) and WVDEP WEBSITE

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

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WV Department of  
Environmental Protection

WW-9  
(4/16)

4703305960

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Nutter 1208 S-7H

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  
6/19/2019*

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 - SOB

-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

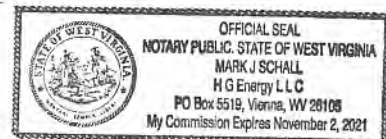
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JUL 12 2019

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
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

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: S P D Warrick

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: 6/19/2019

Field Reviewed? (  ) Yes (  ) No

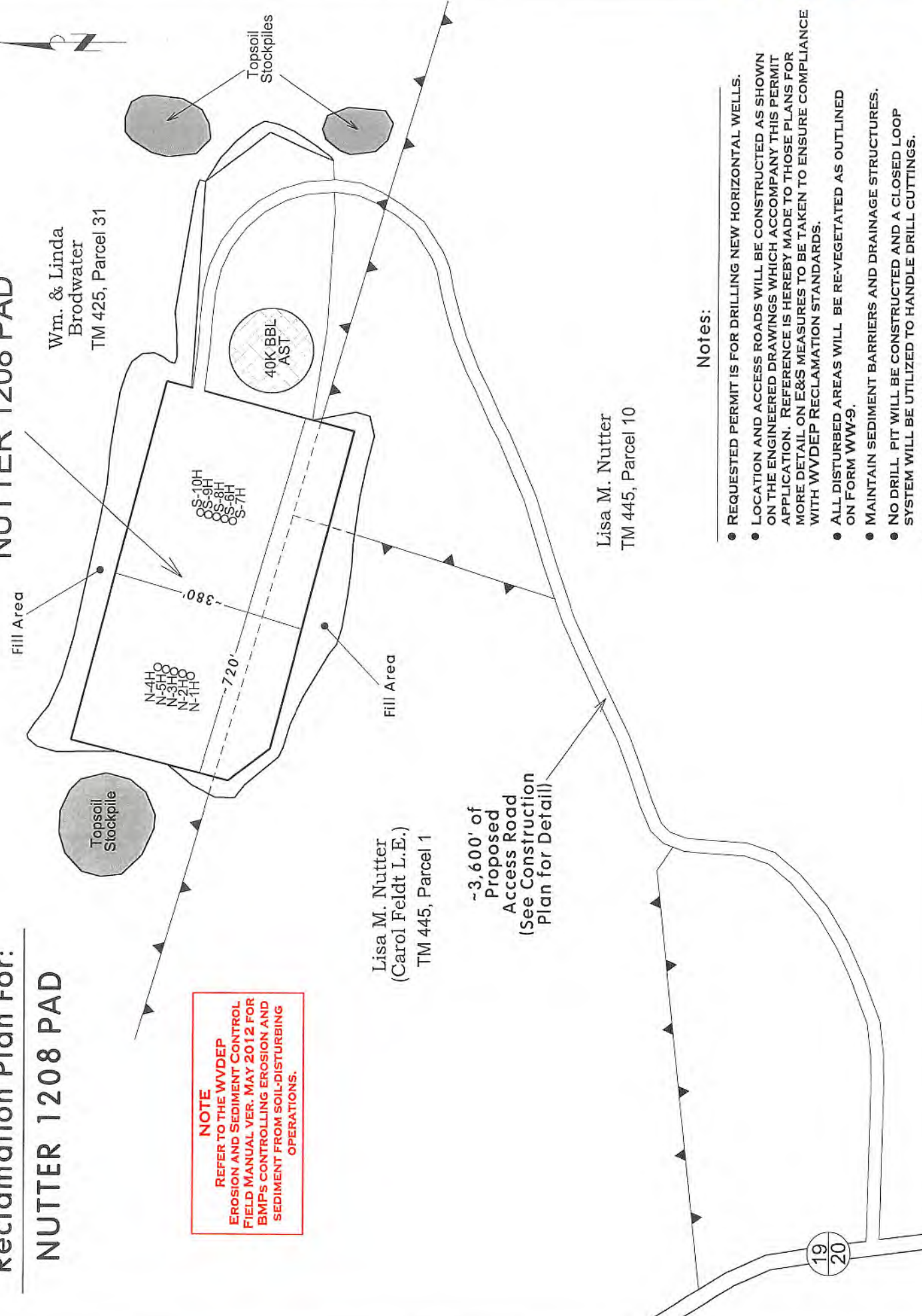
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WV Department of  
Environmental Protection

# Reclamation Plan For: NUTTER 1208 PAD

# NUTTER 1208 PAD



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

**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 E&S 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.

## 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 18  
Cochranon, PA 16314  
814-425-7773

### Disposal Locations:

Apex Environmental, LLC Permit # 06-08488  
11 County Road 78  
Amsterdam, OH 43908  
740-548-4889

Westmoreland Waste, LLC Permit # 100277  
111 Conner Lane  
Belle Vernon, PA 15012  
724-928-7684

Sycamore Landfill Inc, Permit #R80-079001.05-2010  
4301 Sycamore Ridge Road  
Hurricane, WV 25526  
304-562-2611

Max Environmental Technologies, Inc. Facility Permit # PAD004885146 / 301071  
233 Max Lane  
Yukon, PA 25968  
724-722-3500

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

Waste Management Kelly Run Permit # 100563  
1801 Park Side Drive  
Elizabeth, PA 15037  
412-384-7569

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

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

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

Brocke County Landfill Permit # SWR-108-87 / WV 0109029  
Rd 2 Box 410  
Collfers, WV 26035  
304-748-0014

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33-05960

**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**

*SDW  
6/19/19*

**HG Energy II Appalachia, LLC**

**5260 Dupont Road**

**Parkersburg, WV 26101**

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WV Department of  
Environmental Protection



33-05960



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

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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-7H  
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.

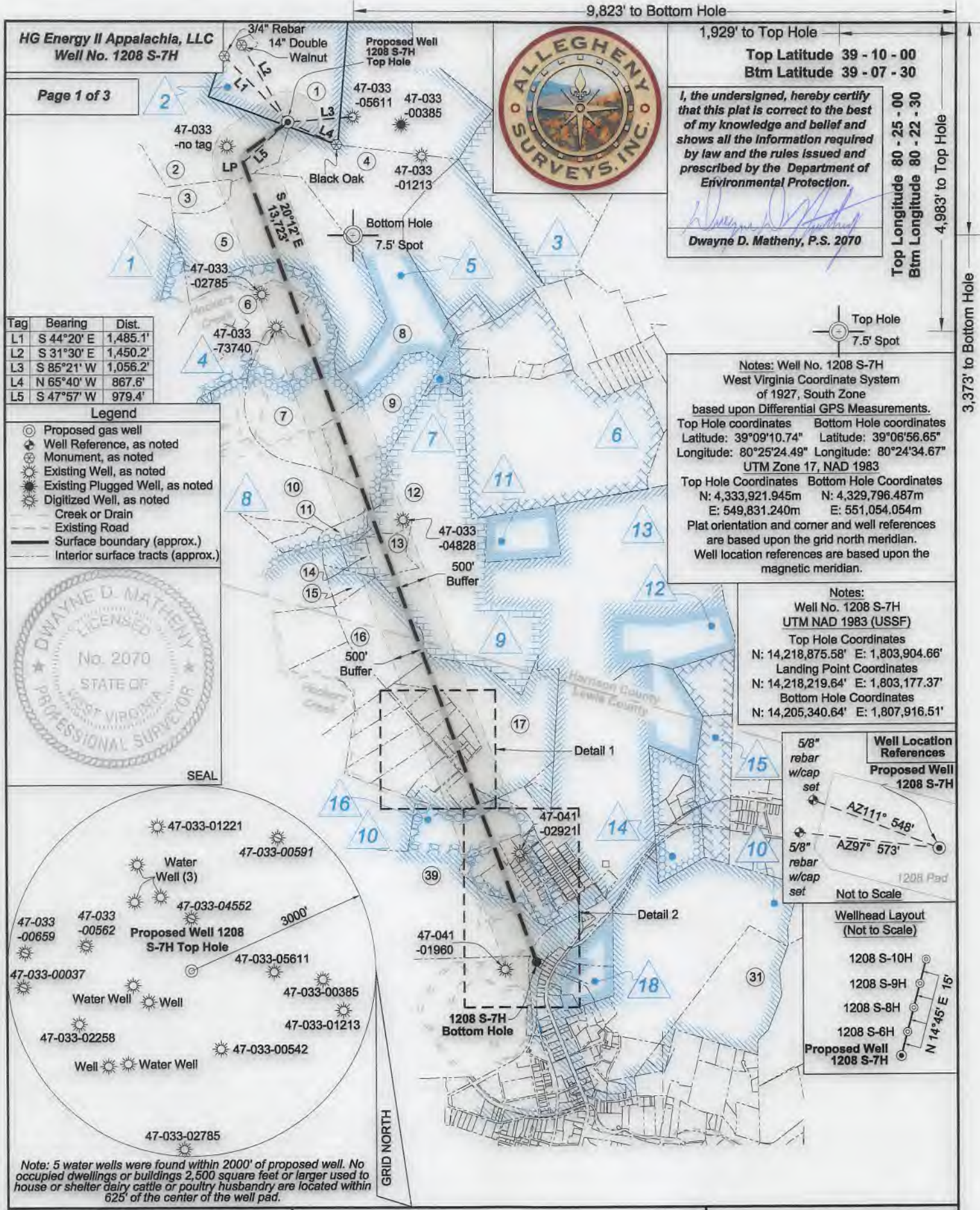
Should you have any questions or desire further information, please contact me at [dwhite@hgenergyllc.com](mailto:dwhite@hgenergyllc.com) or 304-420-1119.

Very truly yours,

*Diane White*

Diane C. White

Enclosures



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 Latitude 39 - 10 - 00  
 Btm Latitude 39 - 07 - 30  
 Top Longitude 80 - 25 - 00  
 Btm Longitude 80 - 22 - 30  
 4,983' to Top Hole  
 3,373' to Bottom Hole

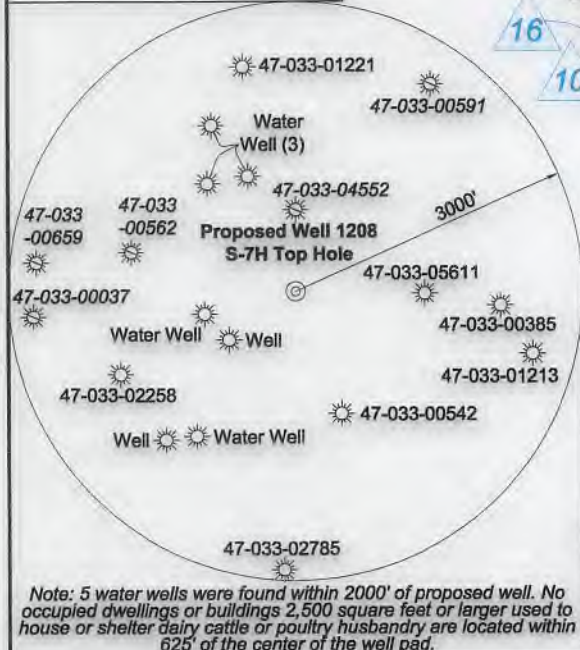
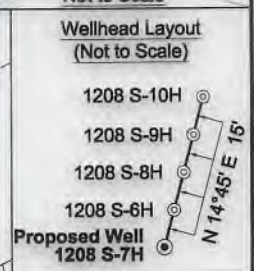
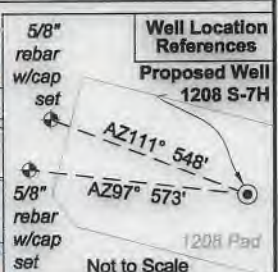
Tag	Bearing	Dist.
L1	S 44°20' E	1,485.1'
L2	S 31°30' E	1,450.2'
L3	S 85°21' W	1,056.2'
L4	N 65°40' W	867.6'
L5	S 47°57' W	979.4'

- 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-7H  
 West Virginia Coordinate System of 1927, South Zone  
 based upon Differential GPS Measurements.  
 Top Hole coordinates Bottom Hole coordinates  
 Latitude: 39°09'10.74" Latitude: 39°06'56.65"  
 Longitude: 80°25'24.49" Longitude: 80°24'34.67"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,333,921.945m N: 4,329,796.487m  
 E: 549,831.240m E: 551,054.054m  
 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-7H  
 UTM NAD 1983 (USSF)  
 Top Hole Coordinates  
 N: 14,218,875.58' E: 1,803,904.66'  
 Landing Point Coordinates  
 N: 14,218,219.64' E: 1,803,177.37'  
 Bottom Hole Coordinates  
 N: 14,205,340.64' E: 1,807,916.51'



FILE NO: 195-36-G-18  
 DRAWING NO: 1208 S-7H Well Plat  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

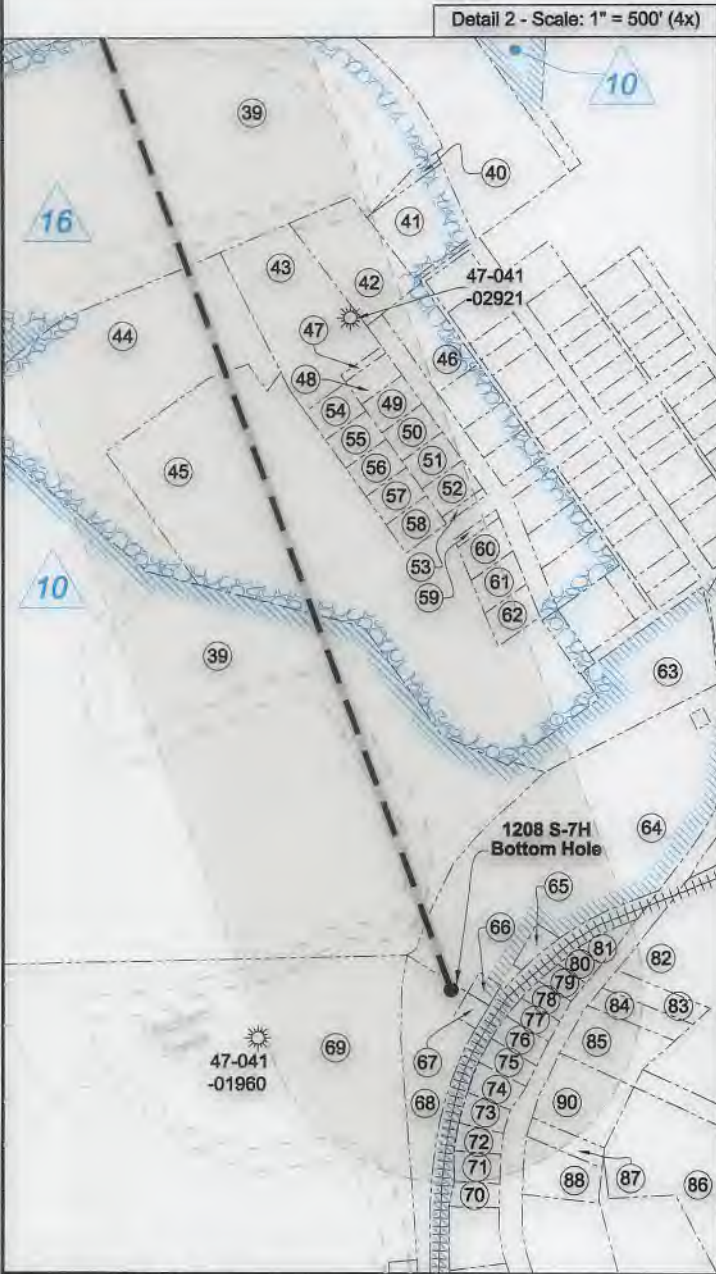
DATE: July 3 20 19  
 OPERATOR'S WELL NO. 1208 S-7H  
 API WELL NO. **H4A**  
 47 - 033 - 05760  
 STATE COUNTY PERMIT

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 Heirs, 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) \_\_\_\_\_ 7,050' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,307' 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



Lewis County - Hackers Creek District				
No.	TM / Par	Owner	Bk / Pg	Ac.
16	8B / 6	Roy G. Juckett	638 / 520	34.00
17	8B / 7	William E. Watson	547 / 164	71.51
18	8B / 7.3	Risha Family LP	712 / 700	3.21
19	8B / 7.2	USARC Military Reservation	509 / 790	9.83
20	8B / 7.16	Big Brother & Holding Co.	682 / 778	4.77
21	8B / 7.15	Big Brother & Holding Co.	682 / 778	2.84
22	8C / 30	RGL Inc.	665 / 707	11.90
23	8B / 7.14	Big Brother & Holding Co.	682 / 778	4.68
24	8C / 103	Thomas R. & Kathy M. Ellis	653 / 62	0.36
25	8C / 30.2	Victoria S. Martin	465 / 37	11.91
26	8C / 31	Victoria S. Martin	380 / 183	5.51
27	8C / 95	Henry J. & Margaret G. Ford	630 / 431	0.36
28	8C / 97	Forest J. & JoAnn Nicholson	587 / 722	0.34
29	8C / 98	Sandra Kay Matthews	620 / 376	0.34
30	8C / 99	Mark F. Smith	593 / 8	0.34
31	8C / 100	Philip C. & Norma K. Alfred	605 / 254	1.28
32	8C / 96	Garland E. & Jean C. Chapman	666 / 441	0.39
33	8C / 93	Richard J. Davis	W33 / 424	0.40
34	8C / 92	Rebecca T. Cronin	625 / 583	0.447
35	8C / 91	Kenneth E. & Alice F. Smith	683 / 572	0.46
36	8C / 31.3	Victoria S. Martin	349 / 591	5.00
37	8C / 31.2	Victoria S. Martin	377 / 285	2.67
38	8C / 31	Elizabeth D. & Carl A. Meahl Jr.	536 / 90	1.93
39	8C / 33.2	C.D. Cole	502 / 70	150.51
40	5 / 62	William C. White	W23 / 102	0.097
41	5 / 63	William C. White	W23 / 102	0.86
42	8C / 33.5	Michael B. & Judy M. Grogg	511 / 612	1.14
43	8C / 33.10	Linda J. Cooke	FID	1.79
44	8C / 33	Lantetta S. & Glenna K. Myers	598 / 332	6.73
45	8C / 33.1	Jane Lew Associates	409 / 488	10.35
46	8C / 33.7	David D. & Kimberly M. Marple	514 / 156	0.74
47	8C / 33.4	Lowell Weaver	580 / 680	0.059
48	8C / 33.3	Sharon K. Weaver	507 / 475	0.214
49	5 / 50	David & Sharon Snyder	370 / 149	0.27
50	5 / 51	Bethel M. Cruze	700 / 794	0.27
51	5 / 52	Sharon Stalknaker	622 / 270	0.27
52	5 / 53	Lowell W. Weaver	471 / 668	0.27
53	8C / 33.4	Lowell W. Weaver	580 / 680	0.06
54	5 / 58	Carol Susan Taylor	627 / 593	0.27
55	5 / 59	Carol Susan Taylor	627 / 593	0.26
56	5 / 60	Dale & Katherin Holden	680 / 239	0.26
57	5 / 61	Michael L. & Betty A. Ford	379 / 386	0.27
58	5 / 54	Joetta J. & George Anderson	594 / 552	0.27
59	5 / 64	Betty Hitt	582 / 261	0.07
60	5 / 55	Larry F. Bean II	634 / 569	0.276
61	5 / 56	William F. & Linda K. Murphy	731 / 666	0.276
62	5 / 57	Marjorie & Linda C. Hyatt	510 / 581	0.275
63	8C / 33.12	Lisa & David Wagner	604 / 150	2.34
64	8C / 47	C.J. Martin II	666 / 168	5.67
65	1 / 42.1	Derek Long	642 / 334	0.19
66	8C / 47.1	C.J. Martin II	666 / 168	0.09
67	8C / 47.2	C.J. Martin II	666 / 168	0.11
68	8C / 47.3	C.J. Martin II	666 / 168	1.40
69	8C / 34	Charles D. Cole II	437 / 680	136.87
70	1 / 34	Melissa S. Mann	724 / 943	0.17
71	1 / 35	Big Brother & Holding Co. LLC	682 / 411	0.21
72	1 / 36	Big Brother & Holding Co. LLC	682 / 411	0.16
73	1 / 37.1	Zachary Lamb	674 / 66	0.19
74	1 / 37	Jason D. & Sarah H. Bryant	651 / 730	0.45
75	1 / 38	Amanda Jo Frazier	651 / 69	0.16
76	1 / 39	Cinda Roby, et al	W46 / 139	0.21
77	1 / 40	Dale Keith McCoy	657 / 360	0.17
78	1 / 41	Robert M. Brown	682 / 220	0.15
79	1 / 42	Jay H. & Linda McCarty	450 / 338	0.14
80	1 / 43	Douglas E. & Ruth M. Ferrell	680 / 150	0.12
81	1 / 44	Douglas E. & Ruth M. Ferrell	680 / 150	0.19
82	8C / 50	Micah Stover	725 / 152	8.76
83	1 / 46.1	David L. & Celia K. Radcliff	576 / 818	0.33
84	1 / 46.2	David L. & Celia K. Radcliff	576 / 818	0.32
85	1 / 46	Garrison & Heather Grogg	706 / 58	0.75
86	1 / 68	Board of Education	216 / 215	2.80
87	1 / 48	Board of Education	151 / 129	0.28
88	1 / 84	Christel L Beam	738 / 201	0.568
89	8C / 94	William E. Watson	566 / 489	0.197
90	1 / 47	Board of Education	— / —	1.00

FILE NO: 195-36-G-18  
DRAWING NO: 1208 S-7H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

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

DATE: July 3 20 19  
OPERATOR'S WELL NO. 1208 S-7H  
API WELL NO.   
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

Top - West Milford  
QUADRANGLE: Btm - Weston

DISTRICT: Grant / Hackers Creek

COUNTY: Harrison / Lewis

SURFACE OWNER: Linda & William W. Brodwater III

ACREAGE: 200

ROYALTY OWNER: Leeman B. Maxwell Heirs, 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  
21,307' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

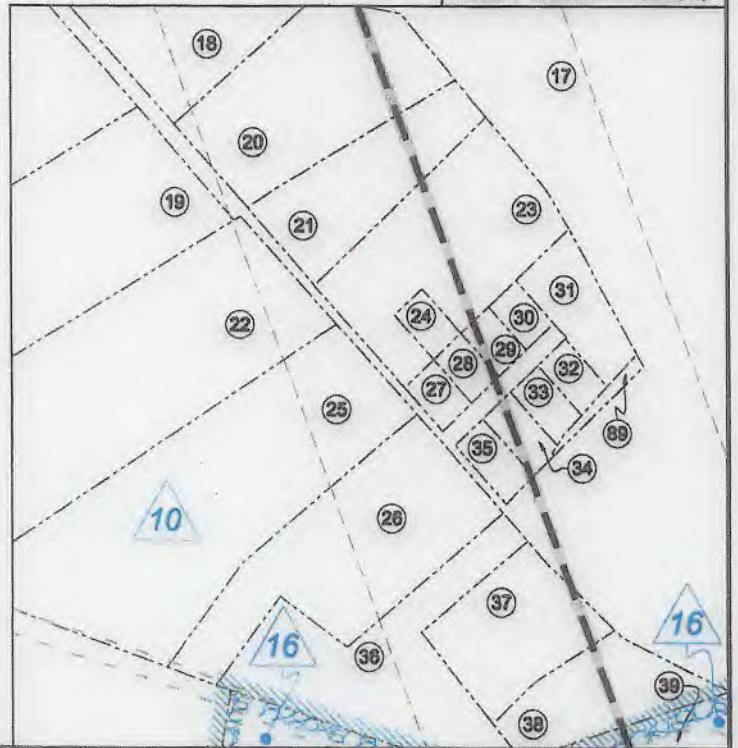
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

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	425 / 1	Lisa M. Nutter	1577 / 738	87.78
3	444 / 14	Robert J. Brightbill	1580 / 293	55.62
4	445 / 10	Lisa M. Nutter	W687 / 445	66.87
5	445 / 9	Lisa M. Nutter	W687 / 445	105.50
6	445 / 18	George W. & Sandra Garton	1425 / 838	30.52
7	445 / 20	Edwin & Gertrude Bush Trustees	1425 / 846	91.70
8	445 / 21	Robert Allman, et al	W177 / 231	41.11
9	445 / 32	Patricia T. Garton	1425 / 854	43.15
10	445 / 44	Danny K. & Katherine Snyder	F120 / 161	95.51
11	485 / 3	Patricia T. Garton	1425 / 854	4.56
12	485 / 4.1	John G. & Rebecca M. Moore	1421 / 350	353.80
13	485 / 4	John G. & Rebecca M. Moore	1428 / 929	10.00
14	485 / 1.1	Carla K. Barron	1421 / 374	5.01
15	485 / 1.2	Roy Gregory Juckett	1437 / 1115	6.45

Detail 1 - Scale: 1" = 500' (4x)



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	William White et al.
18	David Kent Moss, et al

FILE NO: 195-36-G-18  
DRAWING NO: 1208 S-7H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

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

DATE: July 3 20 19  
OPERATOR'S WELL NO. 1208 S-7H  
API WELL NO HGA  
47 - 033 - 0596D  
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

QUADRANGLE: Top - West Millford  
Btm - Weston

DISTRICT: Grant / Hackers Creek

COUNTY: Harrison / Lewis

SURFACE OWNER: Linda & William W. Brodwater III

ACREAGE: 200

ROYALTY OWNER: Leeman B. Maxwell Heirs, 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: 21,307' MD 7,050' TVD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

Parkersburg, WV 26101

WW-6A1  
(5/13)

Operator's Well No. Nutter 1208 S-7H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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\*\* See Attached Sheets \*\*

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

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

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

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

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

HG Energy II Appalachia, LLC  
1208 S-7H Lease Chains

TRACT #	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
2	LC014207	17-12-0425-0031-0003 17-12-0425-0031-0000	Q101051000	NATHAN POST ET AL	RESERVE GAS COMPANY	NOT LESS THAN 1/8	179	412
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	508	573
				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 TRANSMISSION, INC.	ASSIGNMENT	1427	829
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	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
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	ASSIGNMENT	1600	692
				1	FK020606	17-20-0444-0011-0000, 17-20-0444-0011-0001, 17-20-0444-0011-0002, 17-20-0444-0011-0003, 17-20-0444-0012-0000, 17-12-0444-0013-0000, 17-12-0444-0014-0000, 17-12-0444-0021-0000, 17-12-0444-0022-0000, 17-12-0445-0001-0000, 17-12-0445-0002-0000, 17-12-0445-0009-0000, 17-12-0445-0010-0000, 17-12-0445-0011-0000	Q1000370000	DOMINION ENERGY TRANSMISSION, INC.
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 COMPANY	ASSIGNMENT	201					3
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.	ASSIGNMENT	1409					680
DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1442					356
DOMINION TRANSMISSION, 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
DOMINION TRANSMISSION, INC.	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				
4	FK020607	17-12-0445-0008-0000, 17-12-0445-0016-0000, 17-12-0445-0016-0001, 17-12-0445-0017-0000, 17-12-0445-0017-0001, 17-12-0445-0018-0000, 17-12-0445-0018-0001, 17-12-0445-0019-0000,	Q100749000	DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	1601	581
				W.L. HUGHES AND FLORA HIGES	TREAT & CRAWFORD	NOT LESS THAN 1/8	161	90
				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.	ASSIGNMENT	1427	829
				DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	978
				CNX GAS COMPANY LLC	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				DOMINION TRANSMISSION, INC.	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
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1584	942
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	1600	692
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581



	<p>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-00470001; 04-008C-0047-0002, 0003, 0004; 21-04-008C-0034-0000; 21-04-0008C-0026-0000</p>	<p>CNG TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION CNG TRANSMISSION CORPORATION DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC. DOMINION TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC. DOMINION ENERGY TRANSMISSION, INC.</p>	<p>EMAX OIL COMPANY GAS EXPLORATION AND DEVELOPMENT COMPANY DOMINION TRANSMISSION, INC. CNX GAS COMPANY LLC NOBLE ENERGY, INC. CNX GAS COMPANY LLC AND NOBLE ENERGY, INC. NOBLE ENERGY, INC. NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC DOMINION ENERGY TRANSMISSION, INC. HG ENERGY II APPALACHIA, LLC HG ENERGY II APPALACHIA, LLC</p>	<p>WELLBORE ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE FARMOUT AGREEMENT LIMITED PARTIAL ASSIGNMENT (50%) PARTIAL ASSIGNMENT (32%) ASSIGNMENT CORRECTIVE ASSIGNMENT TO DB 717-1 ASSIGNMENT MERGER/NAME CHANGE SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT AMENDED AND RESTATED PARTIAL ASSIGNMENT</p>	<p>522 554 WVSOS 672 684 712 717 725 722 WVSOS 723 723</p>	<p>189 605 154 57 848 1 784 170 499 527</p>
<p>16</p>	<p>N/A</p>	<p>William C. White</p>	<p>HG ENERGY II APPALACHIA, LLC</p>	<p>NOT LESS THAN 1/8</p>	<p>741 607</p>	



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-7H

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>549831.2</u>
County:	<u>Harrison</u>		Northing:	<u>4333921.9</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.

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p>RECEIVED Office of Oil and Gas JUL 12 2019</p>
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**Required Attachments:**

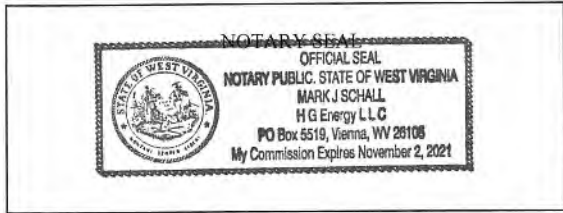
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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.

WV Department of  
Environmental Protection

**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).

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

WW-6A  
(5-12)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. Nutter 1208 S-7H  
Well Pad Name: Nutter 1208

**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

\*Please attach additional forms if necessary

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(5-12)

4703305960  
API NO. 47-  
OPERATOR WELL NO. Nutter 1208 S-7H  
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.

**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

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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.

**Permit Denial or Condition**

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

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

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

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API NO. 47- 33 - 05960  
OPERATOR WELL NO. Nutter 1208 S-7H  
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.

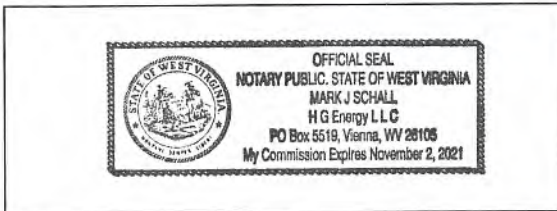
**Notice is hereby given by:**

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:**

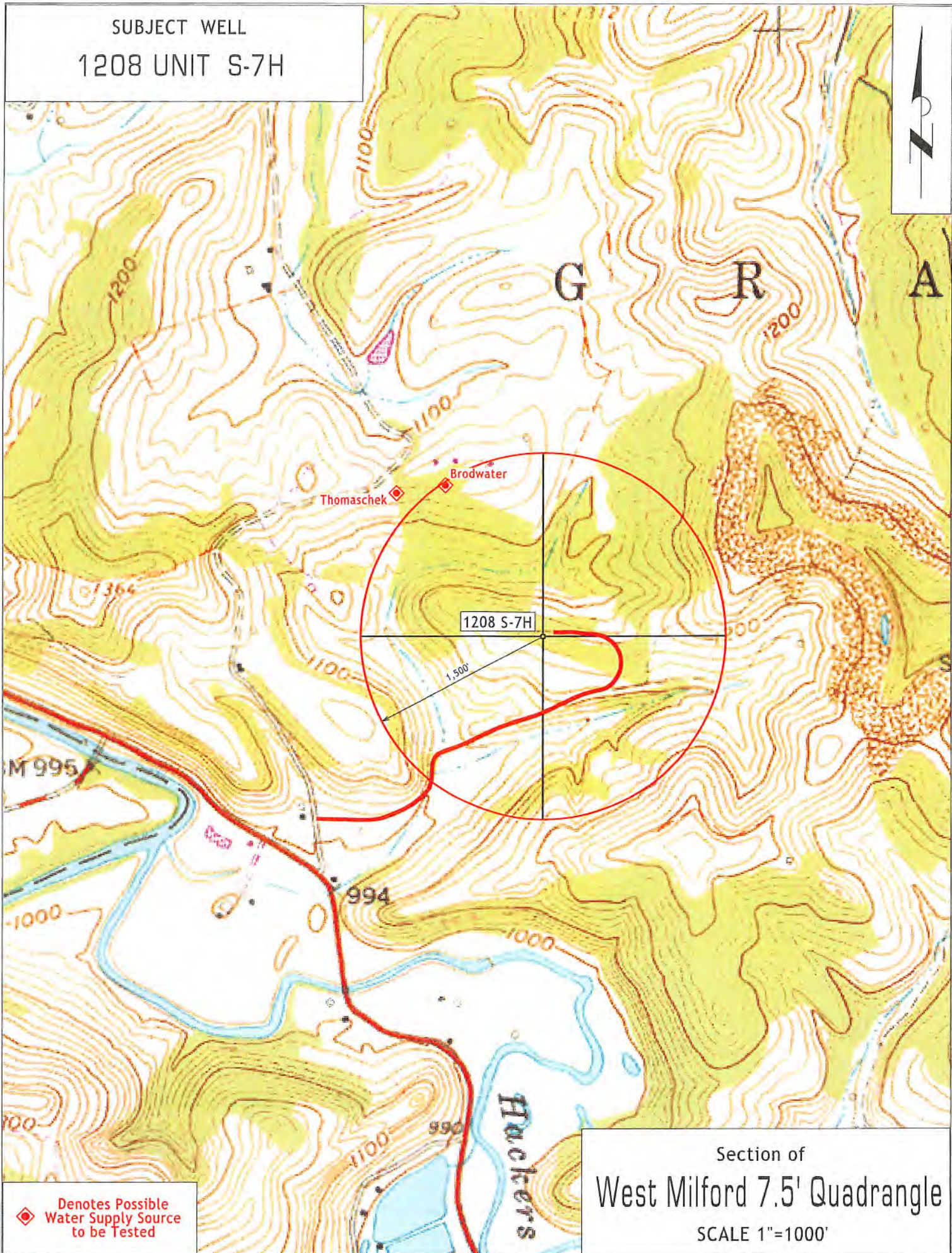
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory 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 day of July, 2019.  
Mark J Schall Notary Public  
My Commission Expires 11/2/2021

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SUBJECT WELL  
1208 UNIT S-7H



◆ Denotes Possible Water Supply Source to be Tested

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

**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>39.153074 / 80.423284</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 Millford</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@hgeneryllc.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

---

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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Mineral Owners

Amanda Jo Farnsworth  
6541 Main Street  
Jane Lew, WV 26378-8504

Amber Gale Smith  
8603 Overlook Dr  
Clarksburg, WV 26301

Ann Brashear Fitzgerald  
625 Windsor PL.  
Tyler, TX 75701

AnnaBelle Lawton Family Trust  
WE Lawton and TC Lawton, Co-Trustee  
1228 N. Park Ave  
Winter Park, FL 32789

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 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

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Mineral Owners

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

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

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

Big Brother & Holding Co., LLC  
7522 US Highway 19N  
Jane Lew, WV 26378-8091

Board of Education of the Independent  
School District of Jane Lew  
239 Court Street  
Weston, WV 26452

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

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

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Mineral Owners

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

Cinda Lynn Roby  
112 Maple Ave.  
Stonewood, WV 26301

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

Gary Manford  
824 Mullen Road  
Los Ranchos, NM 87107

Geneva Bruffey  
500 Henrie Lane  
Williamstown, WV

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

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

J Street Testamentary Trust Fund A & B,  
Carolyn Louise Street, Trustee  
205 Hidden Meadows Circle  
Renfrew, PA 16053

Jackson L. Smith  
PO Box 457  
Lost Creek, WV 26385

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Mineral Owners

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

James Y. Hornor 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

Jason D and Sarah H Bryant  
6529 Main Street  
Jane Lew, WV 26378-8504

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

Jill Lambert  
219 Ballantrae St  
Valparaiso, IN 46385

John Daniel Justice  
1715 Locust Ave  
Ashland, KY 41101

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

Larry Robert Street  
111 Dale Wood Drive  
Lavalette, WV 25535

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

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

Lonnie Kincaid  
28 Bablin Rd  
Ireland, WV 26376

Lucille Davisson  
1108 Oakbridge Drive  
Hurricane, WV 25526-8838

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Mineral Owners

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

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 219  
Coalton, WV 26257

Mildred L. Haller  
608 Center Ave  
Weston, WV 26452

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

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

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

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

Roger Justice  
877 Plymouth Rd NE  
Atlanta, GA 30306

Sandra Ann Cumberledge  
5154 Cedar St  
Clarksburg, WV 26301

Shayne P. Baldwin  
PO Box 872  
Jane Lew, WV 26378

Sidney Wallace Street  
2863 Yajoa Place  
Hacienda Hieghts, CA 91745

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

Suzanne Louise Street  
174 Willamette Drive  
Bear, DE 19701

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WV Department of  
Environmental Protection

WW-6A3  
(1-12)

Page 1 Continued

Mineral Owners

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

Thomas C. Davisson  
83 Cameron Road  
Clarksburg, WV 26301

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  
Morantown, 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

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

Zachary Lamb  
6517 Main Street  
Jane Lew, WV 26378-8504

Zane Anthony Justice  
2706 Algonquin Ave  
Ashland, KY 41102

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33-05960

HG Energy, LLC  
Certified Mail Receipt  
Nutter 1208 S-7H  
WW-6A3 Notice of Entry for Plat Survey

7018 2290 0001 3795 6921

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Certified Mail Fee	\$ 3.50
Extra Services & Fees (check box, add fees as appropriate)	\$ 2.80
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$ 1.30  
Total Postage and Fees \$ 7.60

Sent To Lisa M Nutter  
382 Hidden Valley Road  
Jane Lew, WV 26378  
City, State, ZIP+4® WW6-A3 1208S 7H

PS Form 3800, April 2015 PSN 7530-02-000-9047

4440 4340 0000 1000 0897 8102

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$ 1.30  
Total Postage and Fees \$ 7.60

Sent To William W & Linda Broadwater  
132 Praise Lane  
Jane Lew, WV 26378  
City, State, ZIP+4® WW6-A3 1208S 7H

PS Form 3800, April 2015 PSN 7530-02-000-9047

7018 1830 0002 1736 5273

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$ 1.30  
Total Postage and Fees \$ 7.60

Sent To Amanda Jo Farnsworth  
6541 Main Street  
Jane Lew, WV 26378-8504  
City, State, ZIP+4® WW6-A3 1208S 7-H

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$ 1.30  
Total Postage and Fees \$ 7.60

Sent To Amber Gale Smith  
8603 Overlook Dr  
Clarksburg, WV 26301  
City, State, ZIP+4® WW6-A3 1208S 7-H

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35-05960

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Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 2.80
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$ 1.30  
Total Postage and  
\$ 7.60

Sent To  
Ann Brashear Fitzgerald  
625 Windsor PL.  
Tyler, TX 75701

Street and Apt. No.,  
City, State, ZIP+4®  
WW6-A3 1208S 7-H

PS Form 3800, April 2015 PSN 7530-02-000-9047

7018 1830 0002 1736 5303

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Certified Mail Fee	\$ 3.50
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$ 2.80
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$ 1.30  
Total Postage and  
\$ 7.60

Sent To  
AnnaBelle Lawton Family Trust  
WE Lawton and TC Lawton, Co-Trustee  
1228 N. Park Ave  
Winter Park, FL 32789-2542

Street and Apt. No.,  
City, State, ZIP+4®  
WW6-A3 1208S 7-H

PS Form 3800, April 2015 PSN 7530-02-000-9047

7018 1830 0002 1736 5327

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<input type="checkbox"/> Return Receipt (hardcopy)	\$ 2.80
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$ 1.30  
Total Postage and  
\$ 7.60

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

Street and Apt. No.,  
City, State, ZIP+4®  
WW6-A3 1208S 7-H

PS Form 3800, April 2015 PSN 7530-02-000-9047

7018 1830 0002 1736 5310

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Certified Mail Fee	\$ 3.50
Extra Services & Fees (check box, add fee as appropriate)	
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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage  
\$ 1.30  
Total Postage and  
\$ 7.60

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

Street and Apt. No.,  
City, State, ZIP+4®  
WW6-A3 1208S 7-H

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WW-6A4  
(1/12)

**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: <u>West Virginia</u>	UTM NAD 83 Easting: <u>549831.2</u>
County: <u>Harrison</u>	Northing: <u>4333921.9</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(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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**JUL 12 2019**  
WV Department of  
Environmental Protection

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 Hiden 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>549831.2</u>
County: <u>Harrison</u>		Northing: <u>4333921.9</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-7H 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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JUL 12 2019  
WV Department of  
Environmental Protection

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

# 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	
	Estimate
1208 Well Pad & Staging Area	68,562
Access Road	8,603
<b>Total</b>	<b>77,165</b>
Soil Adjustment for Aggregate Import	-70,767
<b>Total Site Balance</b>	<b>6,398</b>
Stripped Topsoil (Limit of Disturbance)	1,000
Est. Swell Factor (20%)	1,200
<b>Est. Topsoil Stockpile Volume (Loose CY)</b>	<b>2,200</b>
Minimum Total Stockpile Capacity Required (C.Y.)	2,200

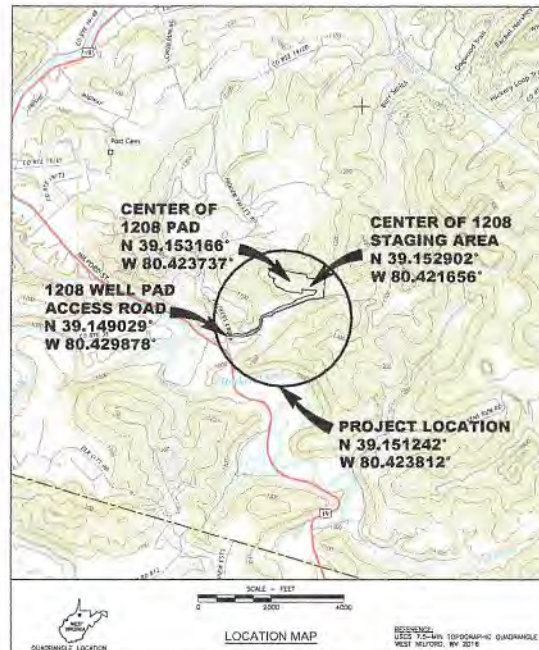
Notes:  
 1. Material balance for est. gross earthwork quantities only.  
 2. Topsoil est. volume based on 6 inches average depth.  
 3. Material balance and aggregate quantities based on est. and may not be representative of actual quantities.  
 4. Estimates do not reflect contractor pay volumes.

Estimated Gravel Quantities	
	1208 Well Pad & Staging Area
3" Depth of 3/4" Crusher Run (Tons)	3,962
Top Coat Ch-2 & Seal (Tons)	1,533
<b>Total</b>	<b>5,495</b>

Estimated Total Compacted Filter Sock Length (LF)  
 Estimated Access Road Filter 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

- 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.
- 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.
- 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.
- Land Clearing and Grading - Implement clearing and grading only after all downslope E&S BMPs have been constructed and stabilized.
- 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.
- 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.
- Upon completion of pad grading, compact the pad to grade and begin placement of pad soil cement.
- 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

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

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

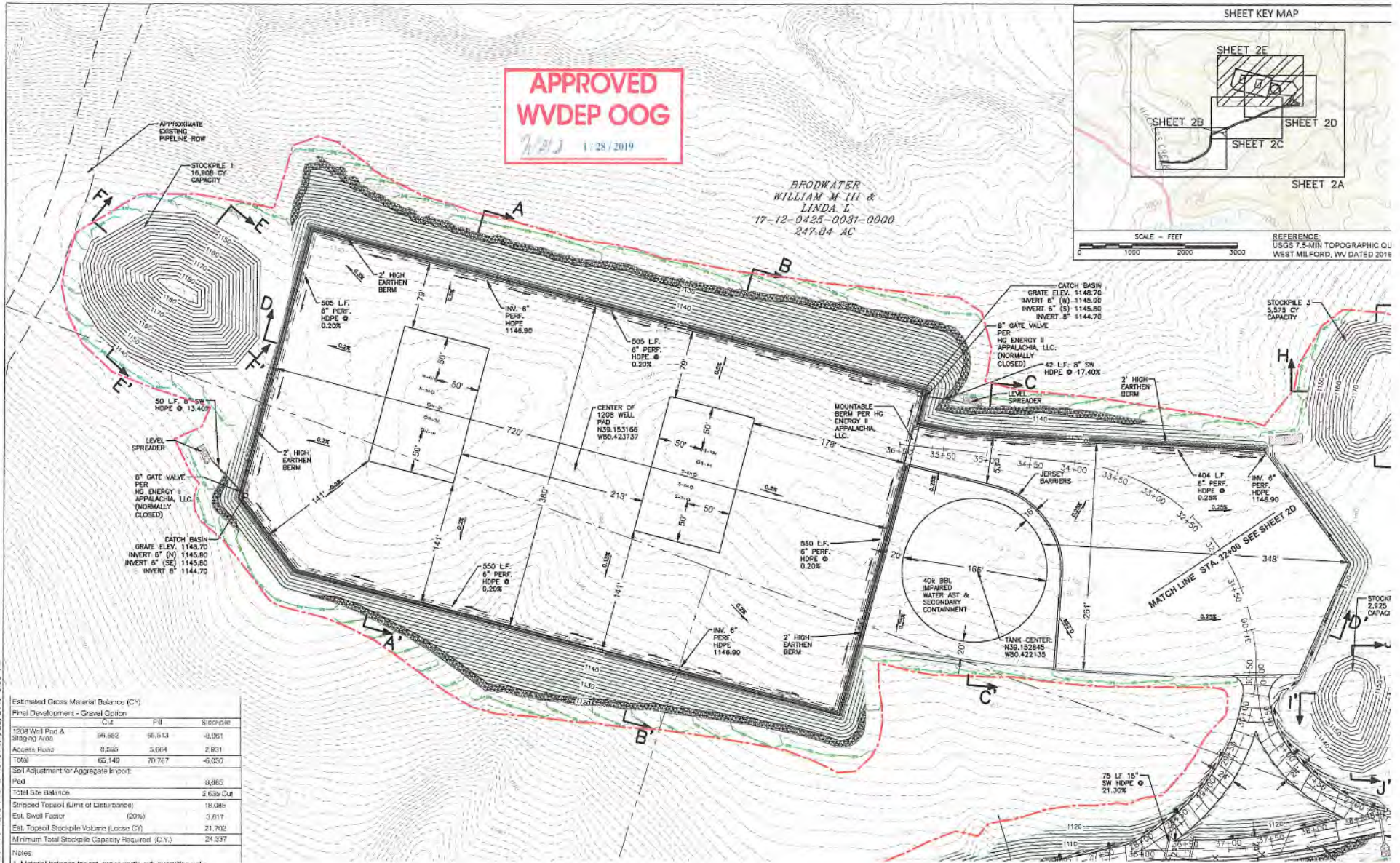
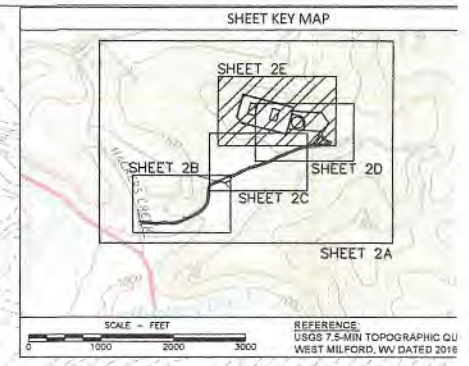
RECORD OWNER	RECORD LOT #	RECORD AREA OF LOT	AF WITH
NUTTER LISA M	17-12-0445-0009-0000	105.50 AC.	2.14
FELDT CAROL (LE) NUTTER LISA M	17-12-0445-0001-0000	87.78 AC.	4.1
NUTTER LISA M	17-12-0445-0010-0000	66.67 AC.	4.18
BRODWATER WILLIAM M III & LINDA L	17-12-0445-0031-0000	247.84 AC.	11.5
TOTAL LIMIT OF DISTURBANCE			22.4

**WEST VIRGINIA** **CALL BEFORE YOU DIG!** **DI 800**  
Miss URL

3. SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING, AND REPLACING AS NECESSARY TO INSURE CONTINUAL SERVICE.

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

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



Estimate Gross Material Balance (CY)

Final Development - Gravel Option	Fill	Stockpile
1208 Well Pad & Staging Area	66,552	66,513
Access Road	9,266	5,664
Total	66,149	70,767

201 Requirement for Aggregate Invert:

Pad	0,885
Total Site Balance	2,039-Cut
Gravel Topsoil (Limit of Disturbance)	16,025
Est. Swell Factor (20%)	3,611*
Est. Topsoil Stockpile Volume (Loose CY)	21,702
Minimum Total Stockpile Capacity Required (CY)	24,937

- 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 estimates and may not be representative of actual quantities.
  4. Estimates do not reflect contractor pay volumes.

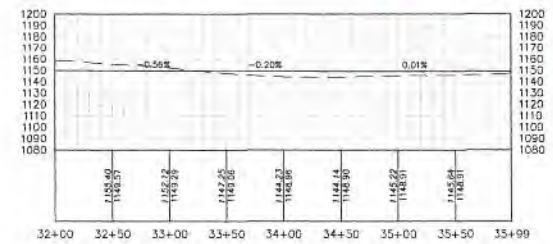
Estimated Gravel Quantities

	1990 1/4"	2001 Shaping	Approx. Fill	5.851 7/8"	Reef	TOTAL
8" Soil Cement (Placed 5Y)	30,111	14,147	6,677			54,135
3" Depth of 3/4" Crusher Run (1ms)	3,262	1,533				4,795
Top Coat Chip & Seal (Placed 5Y)			9,877			9,877

Estimated Total Composite Filter Sock Length (LF)

12"	6,760
Estimated Access Road Filter Sock Length (LF)	2,834
Estimated Well Pad and Staging Area Filter Sock Length (LF)	3,996
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)	15,399
Well Pad and Staging Area Peak Pre-Construction Elevation (Ft)	1182.0

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** Miss Utility

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

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