



 west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, May 7, 2019
 WELL WORK PERMIT
 Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for 1208 N-3H
 47-033-05952-00-00

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: 1208 N-3H
 Farm Name: LINDA & WILLIAM W. BROOKS
 U.S. WELL NUMBER: 47-033-05952-00-00
 Horizontal 6A New Drill
 Date Issued: 5/7/2019

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

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.

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. 494519932 Harrison Union West Milford 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Nutter 1208 N-3H 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: 1149'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal _____

SDW
1/28/2019

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: 19,082'

11) Proposed Horizontal Leg Length: 11,596'

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

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

FEB 22 2019

WV Department of
Environmental Protection

WW-6B
(04/15)

API NO. 47- 33 - 05952
 OPERATOR WELL NO. Nutter 1208 N-3H
 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	20"	NEW	J-55	94	650'	650'	CTS
Coal/Storage	13 3/8"	NEW	J-55	68	1890'	1890'	CTS
Intermediate	9 5/8"	NEW	J-55	40	2700'	2700'	CTS
Production	5 1/2"	NEW	P-110	23	19,082'	19082'	CTS
Tubing							
Liners							

SDW

5/1/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water	20"	26"	.438	2110	1200	Type 1, Class A	40% excess yield = 1.20. CTS
Coal/Storage	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Load 40% excess, Tail 0% excess
Intermediate	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	Load 40% excess, Tail 0% Excess
Production	5 1/2"	8 1/2"	.415	14520	12000	Type 1/Class A	20% excess yield = 1.15, tail yield 1.50
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B
(10/14)

API NO. 47- 33- D515A ^{05/10/2019}
OPERATOR WELL NO. Nutter 1208 N-3H
Well Pad Name: Nutter 1208

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7050 feet. Drill horizontal leg to estimated 11596 lateral length, 19082 TMD. Hydraulically fracture stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ECP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

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

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

23) Describe centralizer placement for each casing string:

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

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Environmental Protection

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

Conductor -NA, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water - 15.0 ppg PNE-1 + 3% bwoc CaCl₂ 40% Excess Yield = 1.20, CTS
Coal - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂ 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂ zero% Excess, CTS
Intermediate - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂ 40% Excess, Tail: 15.9 ppg, PNE-1 + 2.5% bwoc CaCl₂ zero% Excess, CTS
Production - Lead: 14.5 ppg POZ/PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170, Tail: 14.6 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess, Lead Yield=1.19, Tail Yield=1.94, CTS

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

Nutter 1208 Well Pad (N-1H to N-5H, S-6H to S-10H)

Cement Additives

Material Name	Material Type	Material Description	CAS #																		
Premium NE-1	Portland Cement	Premium NE-1 is a portland cement with early compressive strength properties.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Portland cement</td> <td>90 - 100</td> <td>65997-15-1</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> <tr> <td>Magnesium oxide</td> <td>1 - 5</td> <td>1309-48-4</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>0.1 - 1</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Portland cement	90 - 100	65997-15-1	Calcium oxide	1 - 5	1305-78-8	Magnesium oxide	1 - 5	1309-48-4	Crystalline silica: Quartz (SiO2)	0.1 - 1	14808-60-7			
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Bentonite	Extender	Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>bentonite</td> <td>90 - 100</td> <td>1302-78-9</td> </tr> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	bentonite	90 - 100	1302-78-9	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7									
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Calcium Chloride	Accelerator	A powdered, flaked or pelleted material used to decrease thickening time and increase the rate of strength development	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>90 - 100</td> <td>10043-52-4</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium chloride	90 - 100	10043-52-4												
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Cello Flake	Lost Circulation	Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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FP-13L	Foam Preventer	FP-13L is a clear liquid organic phosphate antifoaming agent used in cementing operations. It is very effective minimizing air entrapment and preventing foaming tendencies of latex systems.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Tributyl phosphate</td> <td>90 - 100</td> <td>126-73-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Tributyl phosphate	90 - 100	126-73-8												
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Granulated Sugar	Retarder	Used to retard cement returns at surface. A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Sucrose</td> <td>90 - 100</td> <td>57-50-1</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Sucrose	90 - 100	57-50-1												
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EC-1	Gas Migration	Multi-purpose polymer additive used to control free fluid, fluid loss, rheology, and gas migration.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>No hazardous ingredient</td> <td></td> <td></td> </tr> </tbody> </table>	Ingredient name	%	CAS number	No hazardous ingredient														
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Poz (Fly Ash)	Base	A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Crystalline silica: Quartz (SiO2)</td> <td>5 - 10</td> <td>14808-60-7</td> </tr> <tr> <td>Calcium oxide</td> <td>1 - 5</td> <td>1305-78-8</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Crystalline silica: Quartz (SiO2)	5 - 10	14808-60-7	Calcium oxide	1 - 5	1305-78-8									
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R-3	Retarder	A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>Organic acid salt</td> <td>40 - 50</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Organic acid salt	40 - 50	Trade secret.												
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S-5	Surfactant	Used to water wet casing and formation to facilitate cement bonding.	<table border="1"> <thead> <tr> <th>Ingredient name</th> <th>%</th> <th>CAS number</th> </tr> </thead> <tbody> <tr> <td>2-Butoxyethanol</td> <td>20 - 30</td> <td>111-76-2</td> </tr> <tr> <td>Proprietary surfactant</td> <td>10 - 20</td> <td>Trade secret.</td> </tr> <tr> <td>D-Glucopyranose, oligomeric, C10-16-alkyl glycosides</td> <td>5 - 10</td> <td>110615-47-9</td> </tr> <tr> <td>Alkylarylsulfonate amine salt</td> <td>1 - 5</td> <td>Trade secret.</td> </tr> <tr> <td>Polyoxyalkylenes</td> <td>0.1 - 1</td> <td>Trade secret.</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	2-Butoxyethanol	20 - 30	111-76-2	Proprietary surfactant	10 - 20	Trade secret.	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5 - 10	110615-47-9	Alkylarylsulfonate amine salt	1 - 5	Trade secret.	Polyoxyalkylenes	0.1 - 1	Trade secret.
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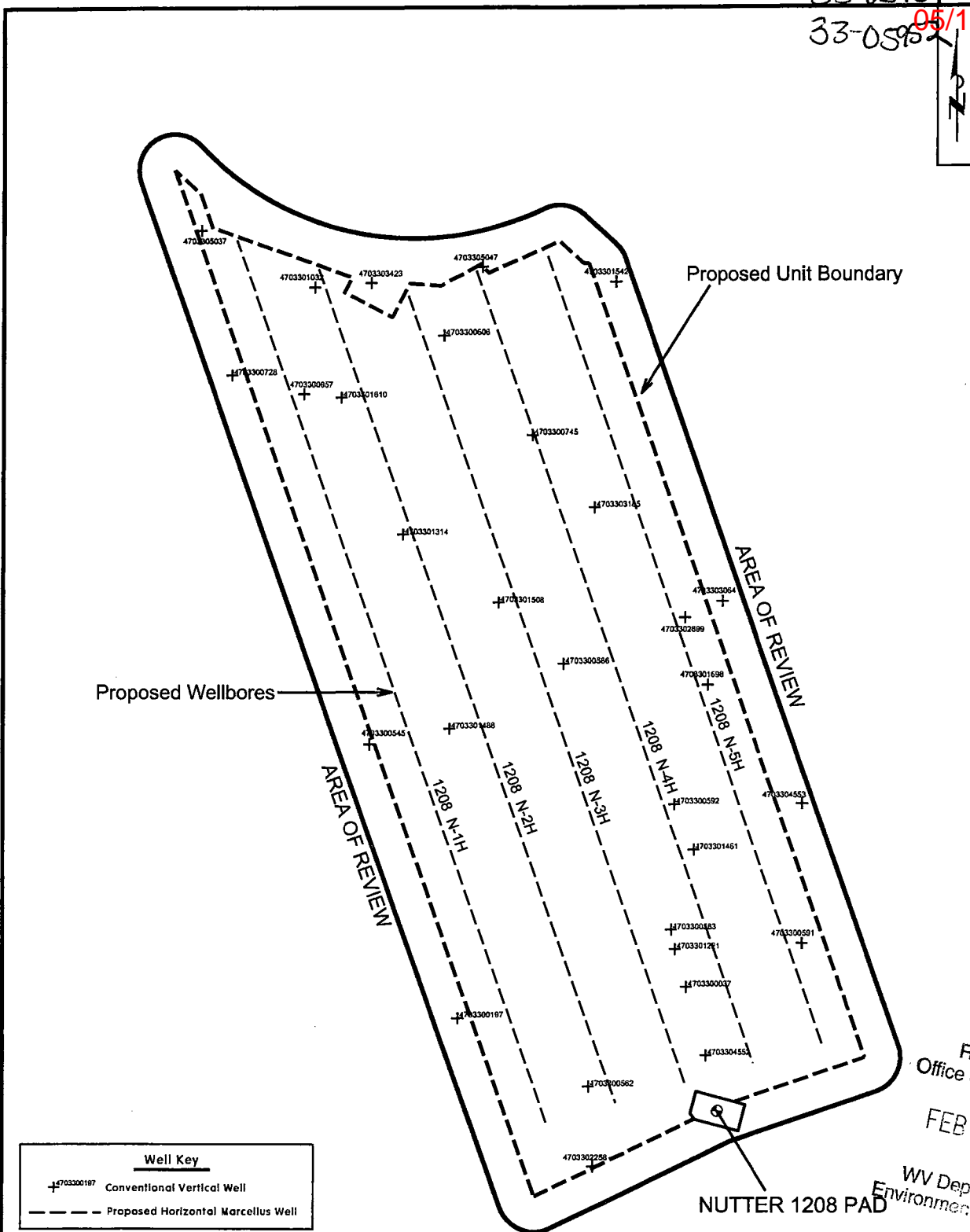
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WV Department of
Environment and Natural Resources

33-05951

33-05952

05/10/2019



Well Key

Conventional Vertical Well

 Proposed Horizontal Marcellus Well

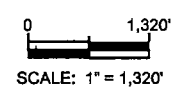
NOTE:
See Attached Spreadsheet for Well Data
DATA SOURCE
WVGES Data Set - 2017; WVDEP Website

Area of Review for:

NUTTER 1208 UNIT

Proposed 1208 N-1H Proposed 1208 N-2H
Proposed 1208 N-3H Proposed 1208 N-4H
Proposed 1208 N-5H

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



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EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:
NUTTER 1208 NORTH UNIT AND PROPOSED WELLS N-1H, N-2H, N-3H, N-4H & N-5H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4703300937	Harrison	Leeman Maxwell 5	Dominion Energy Transmission Inc.	Balltown	Storage	3186	ACTIVE	39.157905	-80.425238
2	4703300937	Harrison	Leeman Maxwell	Dominion Energy Transmission Inc.	Fifty-foot	Storage	3216	ACTIVE	39.156758	-80.436644
3	4703300545	Harrison	Mary Burnside	Dominion Energy Transmission Inc.	Benson	Gas	4225	ACTIVE	39.167206	-80.440704
4	4703300562	Harrison	J B Gusman	Dominion Energy Transmission Inc.	Benson	Gas	4315	ACTIVE	39.154132	-80.430082
5	4703300563	Harrison	Leeman Maxwell	Dominion Energy Transmission Inc.	Benson	Gas	4332	ACTIVE	39.160087	-80.425298
6	4703300586	Harrison	Brooks Yancey	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4316	ACTIVE	39.170253	-80.431202
7	4703300591	Harrison	William W Broadwater III	Dominion Energy Transmission Inc.	Benson	Gas	4488	ACTIVE	39.159553	-80.419511
8	4703300592	Harrison	William Broadwater	Dominion Energy Transmission Inc.	Greenland Gap Fm.	Gas	4382	ACTIVE	39.164871	-80.425298
9	4703300606	Harrison	Bruce Cayton	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4225	ACTIVE	39.1482756	-80.436877
10	4703300728	Harrison	Jacob P Post	Dominion Energy Transmission Inc.	Balltown	Gas	3129	ACTIVE	39.181284	-80.447414
11	4703300745	Harrison	G W Washburn	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	2765	ACTIVE	39.178961	-80.432692
12	4703300957	Harrison	O E Washburn	EQT Production Co.	Benson	Gas	4234	ACTIVE	39.180558	-80.443873
13	4703301032	Harrison	Jacob P Post	EQT Production Co.	Benson	Gas	4265	ACTIVE	39.184622	-80.443314
14	4703301221	Harrison	William W Broadwater Jr.	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	4415	ACTIVE	39.159357	-80.425297
15	4703301314	Harrison	W Burnside	Dominion Energy Transmission Inc.	Fifth	Gas w/ Oil Show	2051	ACTIVE	39.175188	-80.439027
16	4703301461	Harrison	Broadwater Cw-13D	Dominion Energy Transmission Inc.	UNKNOW	Storage	1836	ACTIVE	39.16313	-80.424865
17	4703301488	Harrison	N Post	Dominion Energy Transmission Inc.	UNKNOW	Gas	-	ACTIVE	39.167786	-80.436792
18	4703301508	Harrison	J Cheuvront	Dominion Energy Transmission Inc.	UNKNOW	Gas	-	ACTIVE	39.172575	-80.434369
19	4703301542	Harrison	Stephen Hinkie	Ross & Wharton Gas Co, LLC	Greenland Gap Fm	Gas	2799	ACTIVE	39.184786	-80.428292
20	4703301610	Harrison	W Burnside	Dominion Energy Transmission Inc.	Fifth	Gas	2102	ACTIVE	39.180413	-80.442609
21	4703301698	Harrison	L Maxwell	Dominion Energy Transmission Inc.	Benson	Gas	4516	ACTIVE	39.169414	-80.424118
22	4703302258	Harrison	J B Gusman	Dominion Energy Transmission Inc.	UNKNOW	Storage	1780	ACTIVE	39.151084	-80.429896
23	4703302899	Harrison	K M Patton/R Reed 1	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	3011	PLUGGED	39.171995	-80.425239
24	4703303064	Harrison	J Cheuvront (CW-154)	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	2933	PLUGGED	39.172605	-80.423373
25	4703303185	Harrison	Joseph Cheuvront	Dominion Energy Transmission Inc.	Hampshire Grp	Gas	1749	ACTIVE	39.176214	-80.429658
26	4703303423	Harrison	Thad Curry	Dominion Energy Transmission Inc.	Hampshire Grp	Observation	1980	PLUGGED	39.148786	-80.440518
27	4703304552	Harrison	Linda J Maxwell	Dominion Energy Transmission Inc.	Misc Sands-BNSV/BRLR	Gas	4480	ACTIVE	39.153302	-80.424303
28	4703304553	Harrison	Post Heritage LLC	Dominion Energy Transmission Inc.	Misc Sands-BNSV/BRLR	Gas	4638	ACTIVE	39.164873	-80.419461
29	4703305037	Harrison	Robert M Lewis/CJ Lewis	Dominion Energy Transmission Inc.	Greenland Gap Fm	Gas	5126	ACTIVE	39.186816	-80.448904
30	4703305047	Harrison	Robert M Lewis/CJ Lewis	Alliance Petroleum Corp.	Greenland Gap Fm	Gas	4418	ACTIVE	39.185366	-80.435114

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE

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 FEB 23 2019
 WV Department of
 Environmental Protection

33-05957
05/10/2019



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

December 5, 2018

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)
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-1E). 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. You may also contact the WV Office of Oil and Gas at 304-926-0444.

Sincerely,

Diane White

Diane White

Enclosure

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Office of Oil and Gas
FEB 23 2019
WV Department of
Environmental Protection

05/10/2019



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

December 5, 2018

EQT Production Company
115 Professional Place
Bridgeport, WV 26330

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

December 5, 2018

Alliance Petroleum Corporation
67 Collins Run Road
Glennville, WV 26351

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Sincerely,

Diane White

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**1208 N-3H
Marcellus Shale Horizontal
Harrison County, WV**

				1208 N-3H SHL				14218984.95N 1803609.3E			
Ground Elevation		1149'		1208 N-3H LP				14219300.79N 1803319.24E			
Azim		340.539°		1208 N-3H BHL				14230229.88N 1799457.31E			
WELLBORE DIAGRAM		HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS
	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wall thickness
	26"	20" 94# J-55	Fresh Water	0	135	AIR	15.6 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	
			Fresh Water	0	650						
	17.5"	13-3/8" 68# J-55 BTC	Kittanning Coal	810	815	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 every joint <i>*will also be running ECP for isolating storage zone*</i>	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480" wall thickness Burst=3450 psi	
			Little/Big Lime	1276 / 1317	1301 / 1393						
			Injun / Gantz (Storage)	1393 / 1680	1499 / 1740						
			Intermediate 1	0	1890						
	12.25"	9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	1800 / 1880	1847 / 1892	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 condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=3950 psi	
			Gordon Stray / Gordon	1935 / 2000	2000 / 2090						
			5th Sand	2185	2220						
			Bayard Sand	2275	2310						
			Intermediate 2	0	2700						
8.5" Vertical	5-1/2" 23# P-110 HC CDC HTQ	Speechley	2895	2913	9.0ppg SOBM	<u>Lead:</u> 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 <u>Tail:</u> 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.	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=14520 psi Note: Actual centralizer schedules may be changed due to hole conditions		
		Balltown	3115	3155							
		Benson	4200	4233							
		West Falls	4770	6015							
8.5" Curve		Rhinestreet	6015	6290	11.5ppg-12.5ppg SOBM		Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.				
		Cashaqua	6290	6491							
		Middlesex	6491	6571							
		West River	6571	6664							
		Burkett	6664	6690							
		Tully Limestone	6690	6794							
		Hamilton	6794	7013							
		Marcellus	7013	7064							
8.5" Lateral	TMD / TVD (Production)	19082	7050	11.5ppg-12.5ppg SOBM							
	Onondaga	7064									

LP @ 7050' TVD / 7486' MD

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

+/-11596' ft Lateral

TD @ +/-7050' TVD
+/-19082' MD

X=centralizers

33-05952

33-0595 05/10/2019

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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WW-9
(4/16)

API Number 47 - 033 - 05952
Operator's Well No. Nutter 1208 N-3H

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
5/1/2019

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, SOB/M, Horizontal - SOB/M

-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*

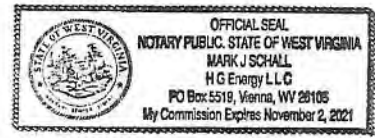
Company Official (Typed Name) Diane White

Company Official Title Agent

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

[Signature] Notary Public

My commission expires 11/2/2021



WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Number 1208 N-2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

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 - Off Site Disposal (Supply form WW-9 for disposal location)
 - Other (Explain _____)
- SDew*
5/11/2019

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/OIL, SOBH, Horizontal - SOBH

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

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

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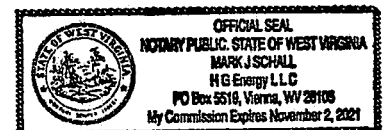
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Company Official Signature *Diane White*
Company Official (Typed Name) Diane White
Company Official Title Agent

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

[Signature] Notary Public
My commission expires 11/2/2021



HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 22.420 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. D. Warrick

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

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

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FEB 22 2019

WV Department of
Environmental Protection

Title: Oil & Gas Inspector

Date: 1/28/2019

Field Reviewed? Yes

No

Cuttings Disposal/Site Water**Cuttings Haul off Company:**

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

05/10/2019

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

Environmental Coordination Services & Recycling (ECS&R)
8287 US Highway 19
Cochranston, PA 16314
814-425-7773

Disposal Locations:

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

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

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

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

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

Waste Management Kelly Run Permit # 100668
1901 Park Side Drive
Elizabeth, PA 15037
412-384-7569

Waste Management South Hills (Arnot) Permit # 100592
3100 Hill Road
Liberty, 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 # 1092
1488 Dawson Drive
Bridgeport, WV 26330

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

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Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185
 Rt 1, Box 158A
 New Martinsville, WV 26035
 804-455-3800

05/10/2019

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

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

Northern A-1 Environmental Services Permit ID MIP020906814
 3947 US 131 North, PO Box 1030
 Kalkaska, MI 49646
 231-258-9961

Water Haul off Companies:

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

CMS of Delaware Inc. DBA CMS Oilfield Serv
 301 Commerce Drive
 Moorestown, NJ 08057

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

Force, Inc.
 1380 Rte. 286 Hwy. E, Suite 303
 Indiana, PA 15701

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

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

Nuverra Environmental Solutions
 11942 Veterans Memorial Highway
 Mesontown, WV 26542

Equipment Transport
 1 Tyler Court
 Carlisle, PA 17015

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

Myers Well Service,
 2001 Ballpark Court
 Export, PA 15632

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

Burna Drilling & Excavating
 618 Crabapple Road P.O. Box
 Wind Ridge, PA 15380

Disposal Locations:

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

Nichols 1-A (SWIW #13)
 Permit # 3862
 300 Cherrington Pkwy, Suite 200
 Coraopolis, PA 15108
 412-829-7275

Solidification/Incineration
 Soil Remediation, Inc. Permit # 02-20753
 6065 Arrel-Smith Road
 Lowellville, OH 44436
 880-586-6825

Grosella (SWIW #34)
 Permit # 4096
 Rt. 88
 Garrettsville, OH
 718-278-4816

Adams #1 (Buckeye Brine, LLC)
 Permit # 34-031-2-7177
 23986 Airport Road
 Coshocton, OH 43812
 740-575-4484
 512-478-6545

Kamble 1-D Well
 Permit # 8780
 7675 East Pike
 Norwich, Oh 42767
 614-648-8898
 740-796-6495

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WV Department of
 Environmental Protection

33-05952

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

Adams #3 (Buckeye Brine, LLC)
Permit #34-031-2-7241-00-00
2680 Exposition, Suite 117
Austin, TX 78703
512-478-6545

Mozena #1 Well (SWIW # 18)
Permit # 34-157-2-5511-00-00
5367 E. State Street
Newcomerstown, OH 43882
740-763-3966

Goff SWD #1 (SWIW # 27)
Permit # 34-119-2-8776-000
300 Cherrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7276

SOS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Sllcor Oilfield Services, Inc.
2999 Hubbard Road
Youngstown, OH 44505

Dudley #1 UIC (SWIW #1)
Permit # 34-121-2-2459-00-00
Select Energy Services, LLC
7994 S. Pleasant Hwy
St. Marys, WV 26170
304-665-2652

OH UIC #1 Bu keya UIC Barnesville 1 & 2
CNX Gas Company, LLC
1000 Consol Energy Drive
Permit # 34-013-2-0609-00-00
Permit # 34-013-2-0614-00-00
304-323-6568

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

Chapln #7 UIC (SWIW #7)
Permit # 34-083-2-4137-00-00
Elkhead Gas & Oil Company
12163 Marne Rd. NE
Newark, OH 43055
740-763-3966

05/10/2019

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Environmental Protection

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**

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Office of Oil and Gas

FEB 22 2019

WV Department of
Environmental Protection

HG Energy II Appalachia, LLC

5260 Dupont Road

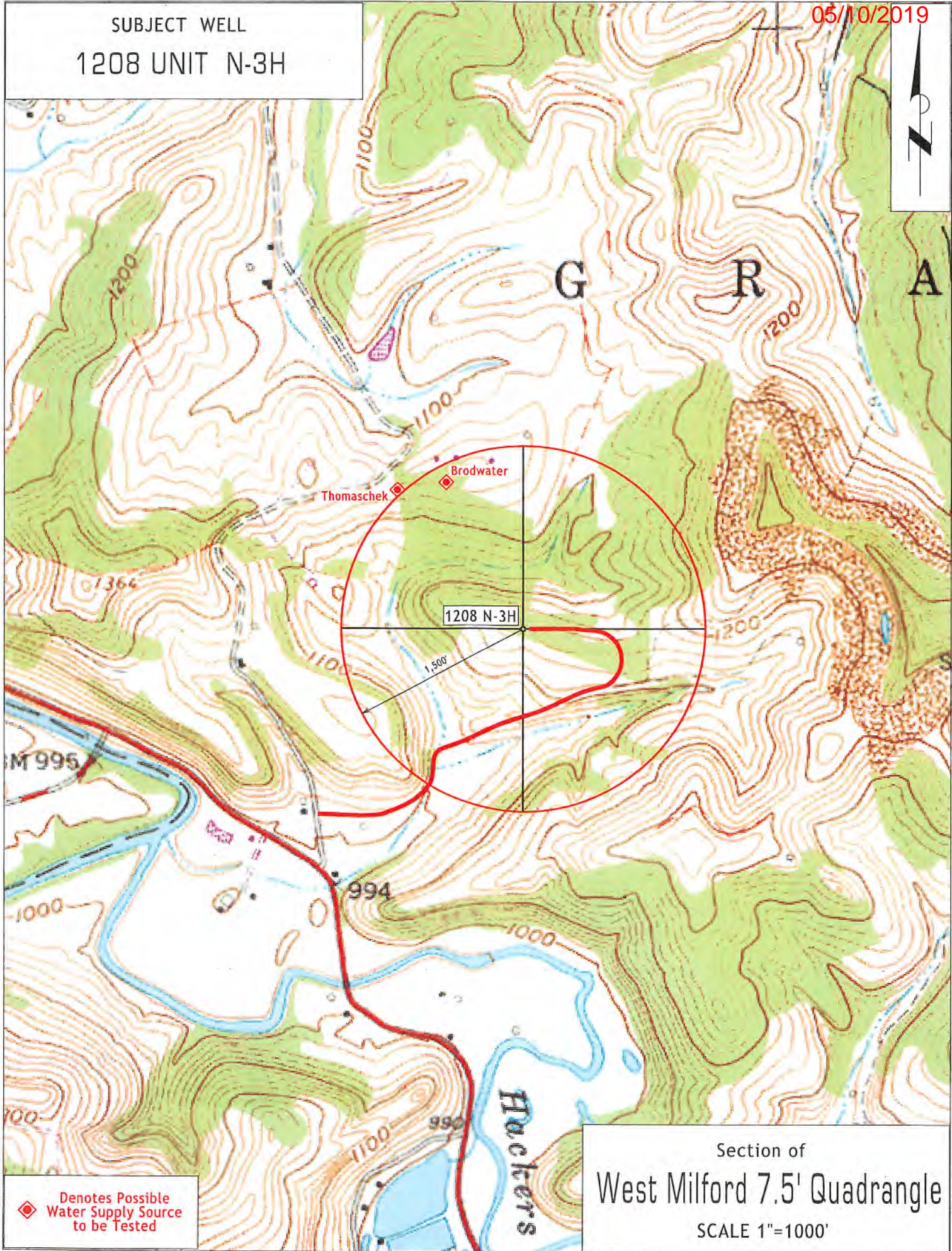
Parkersburg, WV 26101

SDW

1/28/2019

SUBJECT WELL
1208 UNIT N-3H

05/10/2019



◆ Denotes Possible
Water Supply Source
to be Tested

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

6,223' to Bottom Hole
2,224' to Top Hole
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

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.

05/10/2019

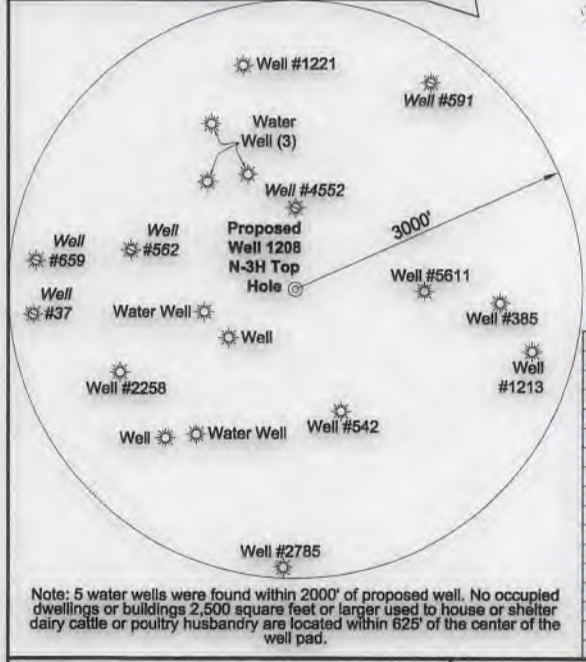
Dwayne D. Matheny, P.S. 2070

Tag	Bearing	Dist.
L1	S 37°55' E	1,208.0'
L2	S 22°19' E	1,218.3'
L3	N 89°00' W	1,348.3'
L4	N 66°44' W	1,182.0'
L5	N 42°34' W	428.8'



Notes:
Well No. 1208 N-3H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,984.95' E: 1,803,609.30'
Landing Point Coordinates
N: 14,219,300.79' E: 1,803,319.24'
Bottom Hole Coordinates
N: 14,230,229.88' E: 1,799,457.31'

Notes: Well No. 1208 N-3H
West Virginia Coordinate System of 1927, South Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'11.84" Latitude: 39°11'03.28"
Longitude: 80°25'28.24" Longitude: 80°26'20.07"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,955.281m N: 4,337,382.742m
E: 549,741.216m E: 548,475.685m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.



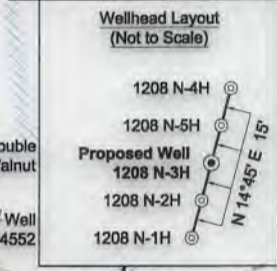
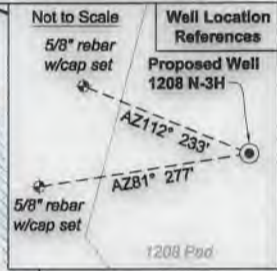
ID	Lease
1	Jerome B. Gusman
2	Leeman B. Maxwell Heirs
3	William Burnside, et al
4	Orle Myers, et al
5	Claudia Hacker, et al
6	Leeman B. Maxwell Heirs
10	Rebecca D. Reed, et al
11	David Scott, et al
12	Nathan Post, et al
13	William Burnside, et al
14	Joseph Cheuvront, et al
16	Howard W. Vanscoy, et al
18	George W. Washburn, et al
19	Lloyd Washburn, et al
21	Olga E. Washburn, et ux
22	J.P. Post & C.F. Post



SEAL

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.)



FILE NO: 195-36-G-18
DRAWING NO: 1208 N-3H Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

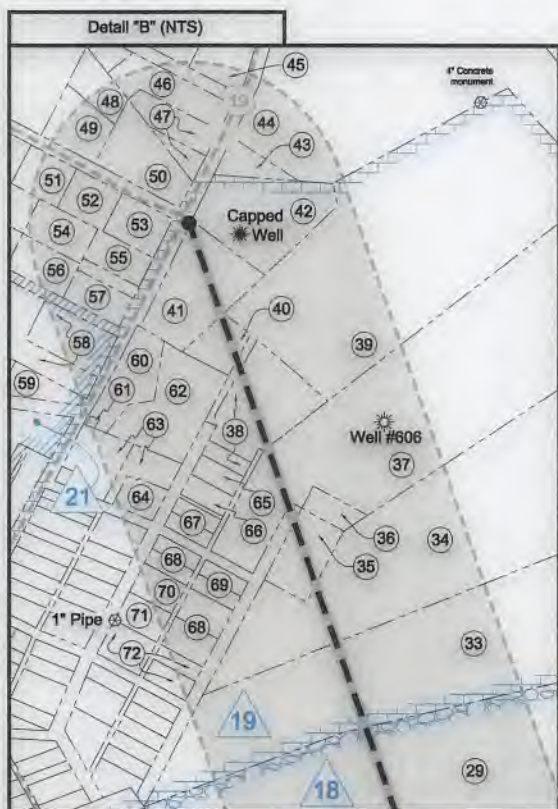
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: January 24 20 19
OPERATOR'S WELL NO. 1208 N-3H
API WELL NO. H6A
47 - 033 - 05952
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,149' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
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)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,050' TVD 19,082' 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



No.	TM / Par	Owner	Bk / Pg	Ac.
72	2901 / 160			0.172
	2901 / 159	Adam Lee Carder	W171 / 954	0.172
	2901 / 137			0.406
71	2901 / 140	Elma Toothman & Cynthia Marsh, et al	F094 / 606	0.344
70	2901 / 142			0.172
	2901 / 141	Jeramey S. Wagoner	1318 / 925	0.172
	2901 / 166			0.172
69	2901 / 165	Bruce & Luella Cayton	1373 / 35	0.172
	2901 / 164			0.344
	2901 / 162			0.344
68	2901 / 144	TAD Investments LLC	1562 / 169	0.172
	2901 / 143		1562 / 172	0.172
67	2901 / 145			0.172
	2901 / 146	Billy J. Guhl	1557 / 849	0.172
66	2901 / 148	Bradford & Nicholas Cottrill	1506 / 608	0.24
65	2901 / 149	Dixie L. Quickle	1357 / 413	0.24
64	2901 / 128.1	Rebecca Morris	W157 / 802	0.33
63	2901 / 128			1.06
	2901 / 100	Kathryn Burnside	1577 / 314	0.84
62	2901 / 129	Scharollette B. Dunlap	1348 / 347	1.44
61	2901 / 101.1	Grant-Union PSD	1173 / 393	0.02
60	2901 / 101.2	Mary Tiney	1449 / 85	0.84
59	2901 / 215	Michael Price	1398 / 915	0.40
	2901 / 221			1.25
58	2901 / 220	Gene Edward & Linda Carole Cox	1087 / 950	0.817
	2901 / 17.5			0.45
57	2901 / 17.5	Mary K. Heath	1478 / 390	0.45
56	2901 / 17.6	Richard D. & Melissa S. Grimm	1426 / 49	0.55
55	2901 / 17.3	Todd J. Pratt	1489 / 872	0.45
54	2901 / 17.7	Rodney J. Rollins	1447 / 1001	0.56
53	2901 / 18	Charles & Carrie Peck	1384 / 61	0.55
52	2901 / 176	Jamie Baker & Karla Kovar	1585 / 926	0.50
51	2901 / 179	John C. & Shasta Miller	1582 / 889	0.50
50	2901 / 71	Richard W. & Riva L. Bartlett	1560 / 180	1.17
49	2901 / 58	Gregory Somerville	1422 / 1277	0.97
48	2901 / 59	Charles & Lea Ann Dobbins	1107 / 731	0.51
	2901 / 74			0.53
47	2901 / 73	Ralph E. & Shelvie J. Campbell	921 / 270	0.38
46	2901 / 75			0.87
45	2901 / 75.1	Hilda J. Flint	1183 / 1157	0.87
	2901 / 75.1	Sharon D. Emerson	W161 / 477	0.57
44	404 / 16	Keffrey & Victoria J. Roark	1518 / 173	3.06
43	2901 / 108	Larry G. & Lisa S. Campbell	1344 / 830	0.54
42	2901 / 107	Erin K. & John D. Vaughn II	1535 / 813	2.00
41	2901 / 106.1	John D. & Teresa C. Vaughn	1502 / 142	1.773
40	2901 / 105	Joshua B. & Amber D. Campbell	1427 / 90	0.50
39	404 / 34	Callwell J. & Patricia F. Hutson	1209 / 163	11.00
	2901 / 152			0.52
38	2901 / 150	Harrison County Commission	1494 / 195	0.17
37	404 / 35			12.80
	404 / 35	Bruce W. & Luella R. Cayton	1029 / 339	0.30
36	404 / 35.1			0.17
	404 / 64			0.17
	404 / 63			0.17
35	404 / 62	Dennis J. Burnside Jr., et al	F112 / 1123	0.17
	404 / 61			0.17
	404 / 60			0.17
34	404 / 36	Dennis J. Burnside Jr., et al	F112 / 1123	16.30
33	404 / 37	Larry & Rebecca Myers	WB146/1089	18.10
32	404 / 54			1.35
	404 / 55.3	Jackson Lodge 35 A.F. & A.M.	798 / 235	1.35
31	404 / 55.3			0.42
30	404 / 55.11			1.79
29	404 / 55	Larry & Rebecca Myers	1191 / 281	54.74
28	2003 / 14	Ernest D. Burton	WB146/1089	3.81
27	2003 / 14.2	Billy & Sarah Garrett	1558 / 413	0.59
26	2003 / 43	Jack Ewart, et ux Living Trust	1491 / 531	0.25
	2003 / 41			0.29
25	2003 / 42			0.28
24	2003 / 44	Patricia Ann Highland	1478 / 216	0.35
23	424 / 10	Joseph H. Mason & Dedire Mason Brown	WB119/1137	22.25
22	405 / 75	William Michael McDonald	1377 / 99	202.18
21	424 / 11.1	Eric A. & Alana N. Burnside	1365 / 1089	13.92
20	425 / 2	Lonzo A. & Erica Martin	1569 / 1076	5.035
19	425 / 1	Joel B. Shuman, et al	WB166/472	89.00
18	424 / 31	Chris & Misty Montgomery	1449 / 358	15.30
17	424 / 32	Chad W. Johnson	1461 / 22	0.98
16	425 / 33	David A. & Julia Keesucker	1282 / 81	34.70
15	425 / 33.5	Shawn & Ashley B. SanJulian	1512 / 978	5.90
14	425 / 32	Terri L. Winters	1448 / 74	2.00
	425 / 33.3			2.00
13	425 / 33.2	Earl Milton Jenkins	1285 / 521	2.00
	425 / 33.1			2.00
12	425 / 33.4	David J. & Angeena K. Keesucker	1439 / 457	3.01
11	424 / 11	Gary L. & Amy Cross	1555 / 1018	1.63
10	425 / 31.3	Gary S. & Melinda M. Brodwater	1354 / 175	2.00
9	424 / 62.1	Robert J. Brightbill	1560 / 293	139.98
8	424 / 62.2	David Keesucker	1533 / 1283	2.38
7	424 / 52	Bernice A. Keesucker	1186 / 552	2.17
6	425 / 31.1	Dona R. & David R. Scarff	1360 / 652	1.00
5	425 / 31.2	Linda & William W. Brodwater III	1343 / 1279	1.16
4	445 / 1		- / -	87.78
3	445 / 10	Lisa M. Nutter	WB 687 / 445	66.87
2	445 / 2			84.57
1	425 / 31	Linda & William W. Brodwater III	1410 / 1045	247.84

05/10/2019

FILE NO: 195-36-G-18
DRAWING NO: 1208 N-3H Well Plat
SCALE: 1" = 1500'
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: January 24 20 19
OPERATOR'S WELL NO. 1208 N-3H
API WELL NO H16A
47 - 033 - 05152
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,149' WATERSHED: Middle West Fork Creek QUADRANGLE: West Milford
DISTRICT: Grant / Union COUNTY: Harrison
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) 7,050' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,082' MD

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

WW-6A1
(5/13)

Operator's Well No. Nutter 1208 N-3H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
----------------------	-----------------------	-----------------------	---------	-----------

****See Attached****

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

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

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

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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 - Nutter 1208 N-3H LEASE CHAIN

33-05952

TRACT #	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
6	LC014207	17-12-0425-0031-0003 17-12-425-0031-0000	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 EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1427	829
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
1	FK020606	17-20-0444-0011-0000, 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, 17-12-0444-0021-0001, 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	Q100370000	J.B. GUSMAN AND ADALINE GUSMAN	TREAT AND CRAWFORD	NOT LESS THAN 1/8	158	8
				TREAT AND CRAWFORD	UNITED FUEL GAS COMPANY	ASSIGNMENT	226	359
				UNITED FUEL GAS COMPANY	FAYETTE COUNTY GAS COMPANY	ASSIGNMENT	UNRECORDED	
				FAYETTE COUNTY GAS COMPANY	HOPE NATURAL GAS	ASSIGNMENT	201	3
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY COMPANY	MERGER/NAME CHANGE	903	179
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	1136	250
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1409	680
				DOMINION TRANSMISSION, INC.	DOMINION EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1442	356
				DOMINION EXPLORATION & PRODUCTION, INC.	DOMINION TRANSMISSION, INC.	ASSIGNMENT	1457	978
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692				
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581				
2	FK065462	17-12-0424-0052-0000 17-12-0424-0052-0001 17-12-0424-0052-0002 17-12-0424-0052-0003 17-12-0424-0052-0004 p/o 17-12-0425-0031-0000 p/o 17-12-0425-0031-0003 17-12-0425-0032-0000 p/o 17-12-0425-0033-0000	Q101063000	L. BASSELL MAXWELL AND BLONDA MAXWELL, HIS WIFE; AND, JANE M. HENDERSON, WIDOW	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	745	5
				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.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125

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WV Department of
Environmental Protection

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FK068504

17-12-0425-0033-0001
17-12-0425-0033-0002
17-12-0425-0033-0003
p/o 17-12-0425-0033-0004
17-12-0425-0033-0005

Q100450000

CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
CLAUDIA HACKER ET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	820	508
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.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	1601	581

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FK068583

17-12-0425-0002-0000
17-12-0425-0002-0002
17-12-0425-0002-0001
17-12-0425-0001-0000

Q100571000

REBECCA F. REED ET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	822	87
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.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581

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17-12-0425-0002-0000
17-12-0425-0002-0002
17-12-0425-0002-0001
17-12-0425-0001-0000

Q100571000

REBECCA F. REED ET AL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	822	87
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.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245
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

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11	FK045313	17-12-0424-0011-0000 17-12-0424-0011-0001	Q100261000	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				DAVID SCOTT ET AL	JOHN ROY	NOT LESS THAN 1/8	118	340
				JOHN ROY AND MARY S. ROY	FEDERAL OIL COMPANY	ASSIGNMENT (7/8INT.)	118	338
				JOHN ROY AND MARY S. ROY	FEDERAL OIL COMPANY	ASSIGNMENT (1/8INT.)	119	223
				FEDERAL OIL COMPANY	T.N. BARNSDALL	ASSIGNMENT	133	448
				T.N. BARNSDALL, SOUTHER OIL COMPANY, FRED S. RICH, W.S. MORRIS	RESERVE GAS COMPANY	ASSIGNMENT	235	432
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	432	229
				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 EXPLORATION & PRODUCTION, INC.	ASSIGNMENT	1427	829
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1235
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				JOSEPH CHEUVRONT ET AL	P. H. GAFFNEY	NOT LESS THAN 1/8	184	309
				F.E. WILLIAMSON AND P.H GAFFNEY, DBA F.E. WILLIAMSON & CO.	J.F. DONALDSON	ASSIGNMENT	222	83
				J. F. DONALDSON	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	222	79
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURGH AND WEST VIRGINIA GAS COMPNAV	ASSIGNMENT	236	111
				PITTSBURGH AND WEST VIRGINIA GAS COMPNAV, PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT/BENSON SAND AND ABOVE	504	353
				PITTSBURGH AND WEST VIRGINIA GAS COMPNAV, PHILADELPHIA OIL COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	714	159
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT/BELOW BENSON SAND	790	135
				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.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581
				GEO W WASHBURN ET AL	RESERVE GAS COMPANY	NOT LESS THAN 1/8	179	404
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	EMAX OIL COMPANY	WELLBORE ASSIGNMENT	1261	1021				

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18	LC052900	17-20-0404-0055-0000 20-0404-0055-0001	17- Q101130000	EMAX OIL COMPANY	CABOT OI AND GAS CORPORATION	COUNTERPART ASSIGNMENT	1244	755
				CABOT OIL AND GS CORPORATION	ENERVEST APPALACHIA L.P.	CONVEYANCE	1314	1012
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				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	1621	1295
				LARA BETH RAMSBURG	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1615	673
				CAROLYN S.J. HOOVER	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	1615	680
				JOE LAW	HG ENERGY II APPALACHIA LLC	MINERAL DEED	1606	779
				LLOYD WASHBURN ET AL	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	1443	0975
				SOUTH PENN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	215	351
19	FK052855	17-20-0404-0037-0000 17-20-0404-0036-0000 17-20-0404-0035-0000 17-20-0404-0034-0000, 17-20-2901-0100-000 ET AL	Q101019000	RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	WVSOS	
				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.	CNX GAS COMPANY, LLC	MEMORANDUM FARMOUT AGREEMENT	1522	33
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	1543	1245
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	1576	125
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	1584	942
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	660
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	1600	692
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	1601	581

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

03305952
05/10/2019

February 11, 2019

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

RE: Drilling Under Roads – Nutter 1208 N-3H
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 or 304-420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

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

Date of Notice Certification: 02/15/2019

API No. 47- _____ - _____

Operator's Well No. Nutter 1208 N-3H

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>549741.2</u>
County: <u>Harrison</u>	UTM NAD 83 Northing: <u>4333955.3</u>
District: <u>Grant</u>	Public Road Access: <u>SR 19</u>
Quadrangle: <u>West Milford</u>	Generally used farm name: <u>Nutter</u>
Watershed: <u>Middle West Fork Creek</u>	

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <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 <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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Required Attachments:

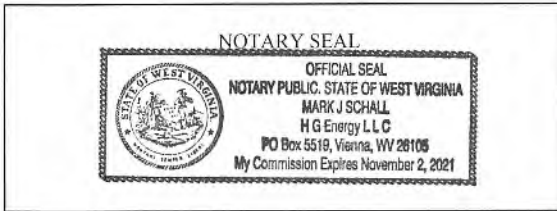
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

FEB 22 2019

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 15th day of February, 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.

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: 02/15/19 Date Permit Application Filed: 02/21/19

Notice of:

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

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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

WV Department of Environmental Protection

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

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

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

COAL OWNER OR LESSEE
Name: _____
Address: _____

FEB 22 2019

WV Department of Environmental Protection

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

COAL OPERATOR
Name: _____
Address: _____

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

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) ✓
Name: William & Connie Thomaschek
Address: 40 Praise Lane
Jane Lew, WV 26378

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: Dominion Energy Transmission - Attn: Ronald Waldren
Address: 925 White Oaks Blvd ✓
Bridgeport, WV 26330

*Please attach additional forms if necessary

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 include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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

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

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

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Well Location Restrictions

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

FEB 23 2019

WW-6A
(8-13)

API NO. 47- _____ - _____ **05/10/2019**
OPERATOR WELL NO. Nutter 1208 N-3H
Well Pad Name: Nutter 1208

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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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.

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.

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WW-6A
(8-13)

4703305952

API NO. 47- _____ - _____ **05/10/2019**
OPERATOR WELL NO. Nutter 1208 N-3H
Well Pad Name: Nutter 1208

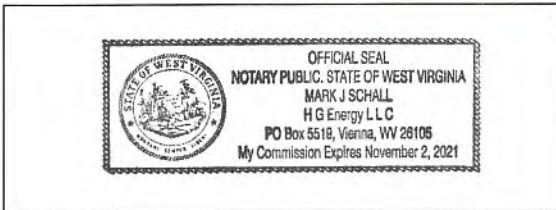
Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com *Diane White*

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 15th day of February, 2019.

Mark J. Schall

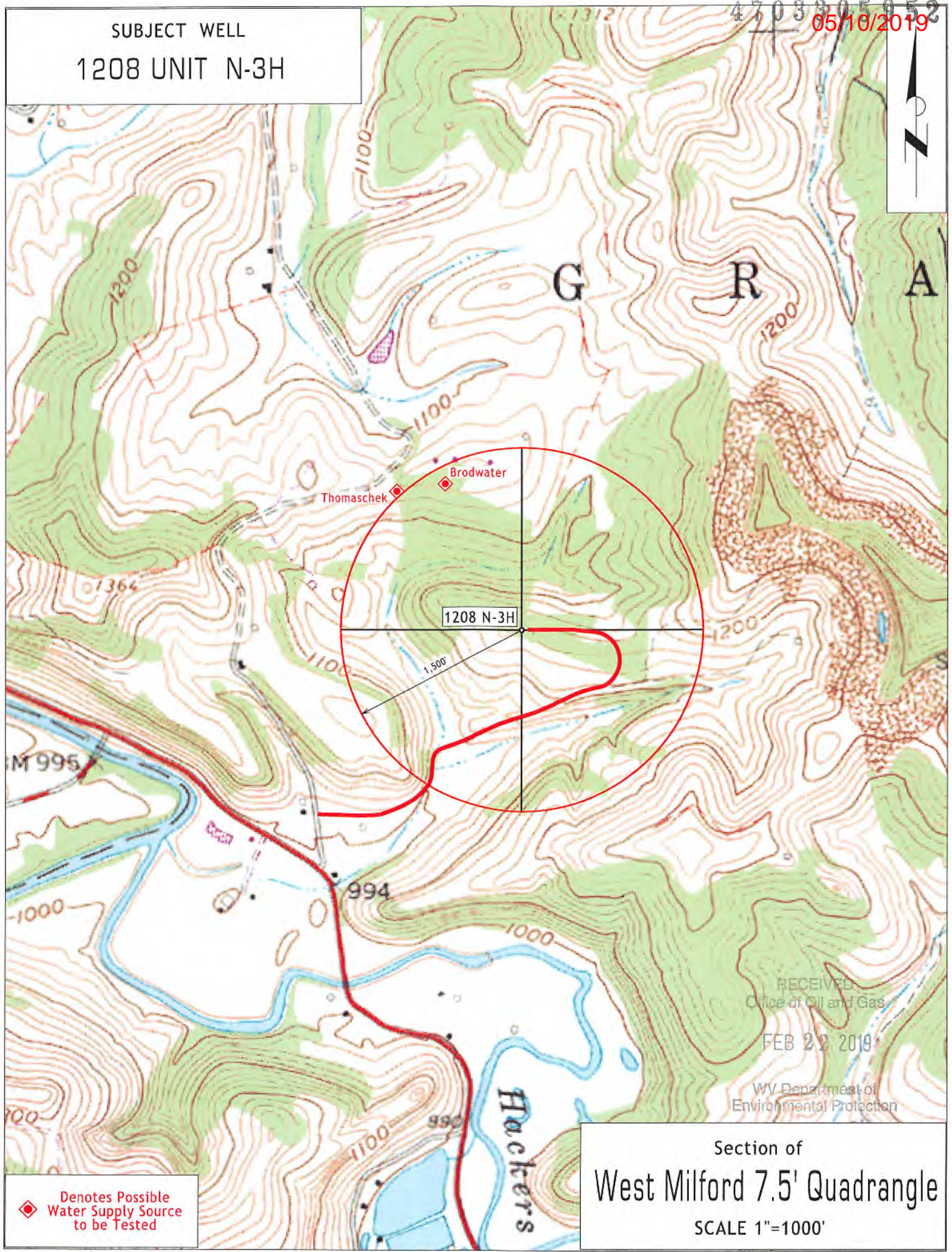
Notary Public

My Commission Expires 11/2/2021

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SUBJECT WELL
1208 UNIT N-3H

4709805952
05/10/2019



1208 N-3H

1,500'

Thomaschek
Brodwater

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◆ Denotes Possible
Water Supply Source
to be Tested

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

Diane White

From: Diane White
Sent: Monday, November 26, 2018 5:02 PM
To: Vickie Hoops (vhoops@sturmenvironmental.com)
Subject: Pre Drill Water Testing for the Nutter 1208 Well Pad

Vicki,
Good afternoon. We need to have two possible water sources tested if the surface owners will allow it.

Nutter 1208 Well Pad, Harrison County, Grant District, West Milford WV 7.5' Quadrangle, Middle West Fork Creek Watershed, LAT/LONG (DD NAD 83) -- 39.153300, -80.424351

- 1 - William & Connie Thomaschek, 40 Praise Lane, Jane Lew, WV 26378
- 2 - William & Linda Broadwater, 132 Praise Lane, Jane Lew, WV 26378 304-884-6406

Please ask the Technician to identify the testing sheets with Nutter 1208 Well Pad please.
Thank You,
Diane

Diane C. White



HG Energy, LLC
5260 Dupont Road
Parkersburg, WV 26101
304-420-1119 (O)
304-482-0108 (C)
dwhite@hgenergyllc.com

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Sturm Environmental Services

JOHN W. STURM, PRESIDENT

COMPANY: H.G. ENERGY, LLC.

DATE/TIME SAMPLED: 11-29-18 1115

SAMPLE ID: WILLIAM THOMASCHECK

DATE/TIME RECEIVED: 11-29-18 1232

NUTTER 1208 PAD

SAMPLED BY: K. WILLIAMS

LABORATORY ID: HG 181129-1

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	DATE/TIME ANALYZED	ANALYST
FIELD pH	7.3	units			11-29-18 1115	KW
FIELD TEMP	21.5	°C			11-29-18 1115	KW
FIELD COND	480	µmhos			11-29-18 1115	KW
LATTITUDE	39°09'23.81"	N			11-29-18 1115	KW
LONGITUDE	80°25'38.03"	W			11-29-18 1115	KW
pH	O 7.3	units	SM 22 nd 4500 H B	.1	11-30-18 0912	KH
Fe	U	mg/L	EPA 200.7 Rev 4.4-1994	.02	12-01-18 0657	DB
TDS	247	mg/L	USGS I-1750-85	4	12-03-18 1400	MRS
Cl ⁻	10.3	mg/L	EPA 300.0 Rev 2.1-1993	.50	12-05-18 0552	DC
MBAS	U	mg/L	SM22 nd 5540C	.01	11-30-18 2136	SW

*Client Provided

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

Data Qualifiers

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

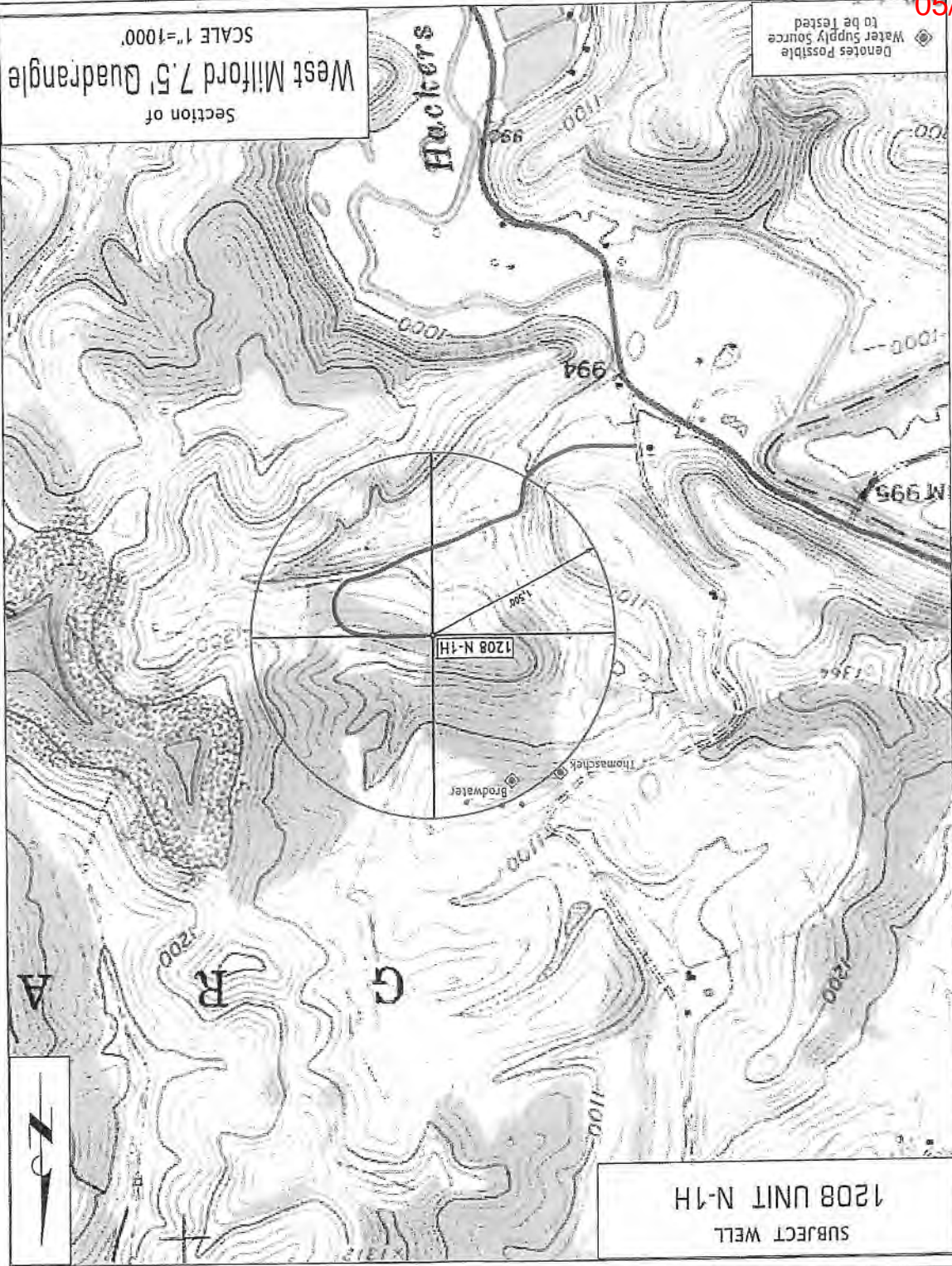
Narrative:

Approved Douglas H. Bantz

05/10/2019

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

Denotes Possible
Water Supply Source
to be Tested



SUBJECT WELL
1208 UNIT N-1H



**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: 02/05/2019 **Date of Planned Entry:** 02/13/2019

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 Nutter ✓

Address: 382 Hidden Valley Road
Jane Lew, WV 26378

Name: William W. & Linda Broadwater ✓

Address: 132 Praise Lane
Jane Lew, WV 26376

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: NA

Address: _____

MINERAL OWNER(s)

Name: **See Attached List**

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>39.153380 / -80.424323</u>
County: <u>Harrison</u>	Public Road Access: <u>SR 19</u>
District: <u>Grant</u>	Watershed: <u>Middle West Fork Creek</u>
Quadrangle: <u>West Milford, WV 7.5'</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 57th 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.

Notice is hereby given by:

Well Operator: <u>HG Energy II Appalachia, LLC</u>	Address: <u>5260 Dupont Road</u>
Telephone: <u>304-420-1119</u>	<u>Parkersburg, WV 26101</u>
Email: <u>dwhite@hgenerylc.com</u>	Facsimile: <u>304-863-3172</u>

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.

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(1-12)

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Page 1 Continued

Mineral Owners

Adam Lee Carder ✓
58 Washburn St
Lost creek, WV 26385

Amber Campbell ✓
245 Washburn Street
Lost Creek, WV 26385

Amy Geraldine Brown ✓
258B Brown Rd
Jane Lew, WV 26378

Amy M. Blankenship ✓
1908 Huber Rd
Charleston, WV 25314

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

Annette C. Nichols ✓
RR 1 Box 124
Lost Creek, WV 26385-9721

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

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

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

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

Argent Company, Agent for Jane R. ✓
Gray Koubek and Terry Dean Koubek
621 N. Robinson Suite 100
Oklahoma City, OK 7310

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

Argent Company,
Agent for Mary Virginia Gray Trust ✓
621 N. Robinson Suite 100
Oklahoma City, OK 73102

Argent Company,
for Pamela Jane Bell Revocable Trust ✓
621 N. Robinson Suite 100
Oklahoma City, OK 73102

Argent Company,
Agent for Piala Living Trust ✓
621 N. Robinson Suite 100
Oklahoma City, OK 73102

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

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Mineral Owners

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

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

Bernard J. Burns III
1300 S. Barton St, #341
Arlington, VA 22204

Billie Jean Sandy
113 Euclid Ave
Clarksburg, WV 26301

Bradford Cottrill & Nicholas Cottrill
116 Washington Drive
Lost Creek, WV 26385

Brian L. Rhoades
165 Fowler Rd
Jane Lew, WV 26385

Buckner W. Hornor
486 Irish Hill Rd
Hopkinton, NH 03229-2202

Carleton David Lloyd
1505 Weatherford Dr
Sun City Center, FL 33573

Charles E. Steffich
RR 1 Box 132
Lost Creek, WV 26385

Charles Henry Burnside
(CHARLES HENRY GRANDSON)
867 MIDDLETOWN RD
Shinnston, WV 26431

Chester Lee Burnside
136 Redstone Church Rd
Fayette City, PA 15438

Christine Rae Hall
117 South ST
Bluffton, SC 29910

Chun H. Underwood
RR 1 Box 130B
Lost Creek, WV 26385

Darren Gail Burnside
217 Clay Street
Hambleton, WV 26269

Dawn Marie Posey
2184 Jennings Run Rd
Weston, WV 26452

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

Dennis J. Burnside, Jr
265 Fenton Pl
Clarksburg, WV 26301

Diane Burnside West,
by her POA, William Holmes West
40 Fenton Place
Clarksburg, WV 26301

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WW-6A3(1-12)Page 1 ContinuedMineral Owners

Dixie L. Quickle /
 RR 1 Box 138C
 Lost Creek, WV 26385

Donald L. & Karen Sinclair (Life Estate)
 ML Sinclair & Cole R Sinclair Remainderman
 408 Michigan Ave /
 Nutter Fort, WV 26301

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

Donna Hefley Tucker
 628 Hwy 77 South /
 Davis, OK 73030

Duane Burnside /
 5870 Heartwood Ct
 Harrisburg, NC 28075-7594

Edna Alexander
 1806 Artisan Ave /
 Huntington, WV 25703

Elaine Sue Dixon /
 1848 Green Ave
 Clarksburg, WV 26301

Elizabeth A Beveridge
 243 Shady Lane /
 Alma, WV 26320

Eugene B Ward Jr & Gary Michael Ward
 10 New England Court
 Fairmont, WV 26554

Evelyn Ruth Premoshis
 855 Fayette City Rd /
 Fayette City, PA 15438

Floyd J. Burnside /
 187 Dyke St.
 Big Sandy, TN 38221

Gina Burnside
 42723 Cool Breeze Square
 Leesburg, VA 20176 /

Gregory G. Burnside
 504 Long Run Rd
 Lost Creek, WV 26385

Heirs of John W. Toothman,
 their Successors and/or Assigns
 84 Washburn St
 Lost Creek, WV 26385

Hiram Gene Burnside
 P.O. Box 8044
 Nutter Fort, WV 26302

Hylan Calcerano
 1520 N. Franklin Blvd
 Pleasantville, NJ 08232

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Mineral Owners

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

Jackson Lodge No. 35 A.F. & A.M. and
Jackson Lodge No. 36 A.F. & A.M.
Route 19 South
Good Hope, WV 26451

James R. Kettering Jr.
PO Box 511
Fairmont, WV 26555-0511

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

Jane M Hardin
225 Watchung FRK
Westfield, NJ 07090

Jane Rae May
2447 Merrigan Place
Tallahassee, FL 32309

Jeanne Jones Beck
129 W 5th St
Russell, KS 67665-2716

Joan Hall
Rt. 2 Box 48 Stevens Run Rd.
Lost Creek, WV 26385

Joe R. Law
3814 Fairmont Ave
Fairmont, WV 26554-5479

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

John Horner and Dreama Horner
RR 2 Box 210B
Jane Lew, WV 26378

John Scott Skinner
24 Washburn St
Lost Creek, WV 26385

John Timothy Burns
15 Della Lane
Boonsboro, MD 21713

Jon S. & Wendy J. Skinner
24 Washburn St
Lost Creek, WV 26385

JP Morgan Chase Bank, Trustee
Will E Morris Trust
PO Box 659
Wichita Falls, TX 76307-0659

K. Rodney McCall & Charlene McCall
83 Westfall Ave
Lost Creek, WV 26385

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Mineral Owners

Karen M Henderson /
190 Sapphire Lane
Meadowbrook, WV 26404

Kathryn Marie Burnside
Rt 1 Box 138 A /
Lost Creek, WV 26385

Kenneth Burnside /
201 Maple View Dr
Clarksburg, WV 26301

Kenneth Scott Hall /
127 South Street
Bluffton, SC 29910

Kevin McNemar /
P.O. Box 534
Lumberport, WV 26385

Kimberly A. Taylor /
2 Washburn St /
Lost Creek, WV 26385

Larry W. Myers and Rebecca E. Myers /
9183 Good Hope Pike /
Lost Creek, WV 26385

Leona J Skinner Auvil /
222 S Maple Ave /
Clarksburg, WV 26301

Lewis Wayne Davis /
P.O. Box 2078 /
Buckhannon, WV 26201

Linda Grimes /
1688 Jakes Rd /
Lost Creek, WV 26385

Linda Sue Peterson /
11101 Coventry Way, Unit 301 /
Tustin, CA 92782

Lisa Painter /
301 Devonshire Court /
Cranberry Township, PA 16066

Lynwood D. Burnside /
22 Southgate Hills Dr /
Clarksburg, WV 26301

Mal R. Burnside fka Richard Burnside /
2349 Pattison Ave /
Cheyenne, WY 82009

Martha L. Somerville /
2335 Lost Creek Romines Mill Rd. /
Lost Creek, WV 26385

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

Mary Jane Lewis /
146 E Main St /
Clarksburg, WV 26301

Mary L. Tinney (Life Estate) PL Tinner,
GR Tinney, Haycox (Remainderman) /
8971 Good Hope Pike
Lost Creek, WV 26385

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Mineral Owners

Michael C. Burnside
42723 Cool Breeze Square
Leesburg, VA 20176

Michael K. Burnside
PO BOX 582
Kingwood, WV 26537

Michael Ross
P.O. Box 880
Glenville, WV 26351

Mike Ross Inc
P.O. Box 219
Coalton, WV 26258-0219

New Beginnings Church (Good Hope
Prayer Chapel) TE Edward Sears II, Pres
8901 Good Hope Pike
Lost Creek, WV 26385

Okey F. Gallien, Jr & Leatrice C. Gallien
13 Norris Ridge Road
Philippi, WV 26416

Okey G. Allawat
229 Washburn Street
Lost Creek, WV 26385

Oscar Lee Rhoades
14 Perine St
Lost Creek, WV 26385

Pamela J. Everitt
63 Washburn St
Lost Creek, WV 26385

Patricia A. Bartlett Helmick
3006 City View Drive
Parkersburg, WV 26101

Patricia B. Craft
7749 Church St
Middletown, VA 22645

Paul Allen Hornor Jr.
161 Cooing Dove Drive
Bridgeport, WV 26330-6749

Prayer Chapel of Good Hope
RR 5 Box 341
Clarksburg, WV 26301

Rebecca A. Bennett
122 Perine St
Lost Creek, WV 26385

Rhonda J. Arrington
fka Rhonda Burnside
11377 N 1720 Rd
Sweetwater, OK 73666-6311

Robert D. Wilt
9057 Good Hope Pike
Lost Creek, WV 26385

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Mineral Owners

Robert Dean Davis ✓
15617 South 7th St
Phoenix, AZ 85048

Robert G. Allman and Martha Allman ✓
8937 Good Hope Pike
Lost Creek, WV 26385

Roberta Smiley ✓
2 Smiley Dr
Mechanicsburg, PA 17050

Ronzel C. Richards & Sandra K. Richards ✓
86 Isaacs Creek Rd
Lost Creek, WV 26385

Roy McNemar ✓
2105 Lost Creek Romines Mill Rd.
Lost Creek, WV 26385

Sabrina Burnside ✓
55 S Main St
Keyser, WV 26726

Scott Burnside ✓
2775 Anmoore Rd.
Bridgeport, WV 26330

Seneca-Upshur Petroleum LLC ✓
PO Box 2048
Buckhannon, WV 26201-2048

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

Timothy E. and Anissa K. Davis ✓
862 Saddletree Rd
Mt. Clare, WV 26408

New Bethel United Methodist Church ✓
43 Bran Acres Dr
Lost Creek, WV 26385

Virgil McNemar ✓
2297 Lost Creek Romines Mill Rd.
Lost Creek, WV 26385

Waco Oil & Gas Co, Inc ✓
P.O. Box 880
Glenville, WV 26351

William A. Burnside ✓
5943 Jarvisville Rd
Salem, WV 26426

William E. Wagner ✓
513 Vantage Dr
Morgantown, WV 26508-2635

William Michael Davis ✓
3109 Maplelawn Ave NW
Roanoke, VA 24012

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 02/11/2019 **Date Permit Application Filed:** 02/21/2019

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

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

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

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 549741.2
County: Harrison Northing: 4333955.3
District: Grant Public Road Access: SR 19
Quadrangle: West Milford WV 7.5' Generally used farm name: Nutter
Watershed: Middle West Fork Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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
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.

1 - 20 2019

103305952

WW-6A5
(1/12)

Operator Well No. 05/10/2019

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: 02/13/2019 **Date Permit Application Filed:** 02/21/2019

RECEIVED
Office of Oil and Gas

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

FEB 22 2019

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

WV Department of
Environmental Protection

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

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

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

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

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 549741.2
County: Harrison Northing: 4333955.3
District: Grant Public Road Access: SR 19
Quadrangle: West Milford WV 7.5' Generally used farm name: Nutter
Watershed: Middle West Fork Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505Thomas J. Smith, P. E.
Secretary of Transportation/
Commissioner of Highways

February 13, 2019

Jill M. Newman
Deputy CommissionerJames A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304Subject: DOH Permit for the Nutter 1208 Well Pad, Harrison County
N-3H Well Site

Dear Mr. Martin,

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

The 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.

82.

Very Truly Yours,

Handwritten signature of Gary K. Clayton in blue ink.

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G CoordinatorRECEIVED
Office of Oil and Gas

FEB 22 2019

WV Department of
Environmental ProtectionCc: Diane C. White
HG Energy II, LLC
CH, OM, D-4
File

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	

RECEIVED
Office of Oil and Gas

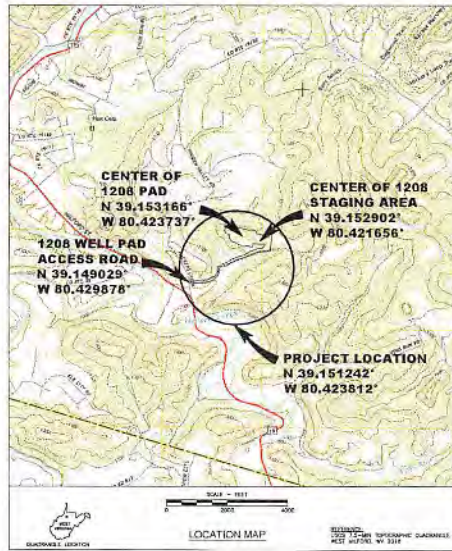
FEB 22 2019

WV Department of
Environmental Protection

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

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

GRANT DISTRICT
HARRISON COUNTY
WEST VIRGINIA



PREPARED FOR
HG ENERGY II APPALACHIA, LLC
5280 DUPONT ROAD
PARKERSBURG, WEST VIRGINIA 26101
(304) 420-1100

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

Estimated Gross Material Balance (CY)			
Final Development - Gravel Option			
Est.	Est.	FE	Stockpile
1208 Well Pad & Staging Area	50,553	40,513	-4,561
Access Road	5,266	5,064	2,804
Total	55,819	45,577	-6,033
Soil Requirements for Aggregate Stockpile:			
Final		5,895	
Total Site Disturbance: 2,839 CuYd			
Disturbed Topsoil (Lump of Disturbance)		18,065	
Est. Swell Factor (Dry)		5.6:1	
Est. Topsoil Stockpile Volume (Less Cr)		31,709	
Minimum Total Stockpile Capacity Required (10 Yr)		24,337	

Notes:
1. Material Balance for Est. gross earthwork quantities only.
2. Topsoil Est. and Swell Factor are not an average value.
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:			
	1208 Well Pad & Staging Area	Access Road	TOTAL
2" Soil Cement (Placed 5")	30,311	14,147	44,457
3" Depth of 2 1/2" Gravel Run (Form)	3,262	1,533	4,795
Top Coat Chip & Seal (Road 10")	-	-	8,627
			12'
Estimated Total Compact Fill Soil Length (Ft)			6,760
Estimated Access Road Fill Soil Length (Ft)			2,524
Estimated Well Pad and Staging Area Fill Soil Length (Ft)			3,326
Estimated Total Length of Disturbance (Feet)			26,610
Estimated Access Road Limit of Disturbance (Feet)			7,021
Estimated Well Pad and Staging Area Limit of Disturbance (Feet)			15,399
Well Pad and Staging Area Peak Pre-Construction Elevation: 11,022.0'			

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 80.428351
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

	LATITUDE	LONGITUDE
1208 WELL PAD ACCESS ROAD ENTRANCE	N 39.149029	W 80.429878

RECORD OWNER	RECORD #	RECORD AREA OF LDI	AREA WITHIN LDI
NUTTER USA W	17-12-0445-0009-0000	105.50 AC	2.164 AC
FELIX CAROL (LS) NUTTER USA W	17-12-0445-0001-0000	87.76 AC	4.126 AC
NUTTER USA W	17-12-0445-0010-0000	68.87 AC	4.167 AC
BROOKHART WILLIAM W (E & L) LINDA E	17-12-0445-0031-0000	247.84 AC	11.933 AC
TOTAL LIMIT OF DISTURBANCE			22.420 AC

THE DRAWING IS CONSIDERED TO BE A FINAL DESIGN AND IS NOT TO BE USED FOR CONSTRUCTION OF THE PROJECT WITHOUT THE WRITTEN APPROVAL OF PENN ENVIRONMENTAL & REMEDIATION, INC. IT MUST BE USED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT. ANY CHANGES TO THE DRAWING MUST BE APPROVED BY PENN ENVIRONMENTAL & REMEDIATION, INC. BEFORE ANY CONSTRUCTION BEGINS. THE DRAWING MUST BE RETURNED TO PENN ENVIRONMENTAL & REMEDIATION, INC. UPON COMPLETION OF THE PROJECT.

REVISION	DATE	DESCRIPTION
1	1/22/19	REVISE PER DEP COMMENTS



TITLE SHEET
HG 1208 WELL PAD
GRANT DISTRICT
HARRISON COUNTY, WEST VIRGINIA
PREPARED FOR
HG ENERGY II APPALACHIA, LLC
PARKERSBURG, WEST VIRGINIA

WEST VIRGINIA **CALL BEFORE YOU DIG!**
Dial 811 or 800.245.4848
Main Office of West Virginia

APPROVED: MEP 11/09/2018
CHECKED: MEP 10/29/2018
DESIGN: JAW 10/29/2018
PROJECT NO.: 8000-FIND0792
DRAWING NUMBER: PA007778-001
SHEET 1
111 RYAN COURT, PITTSBURGH, PA 15205
412-722-1222

Penn E&R
Environmental & Remediation, Inc.

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