



west virginia department of environmental protection

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

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

Monday, September 13, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for MND11 N-4H
47-051-02406-00-00

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.

A blue ink signature of James A. Martin, Chief, is written over a white background.

James A. Martin
Chief

Operator's Well Number: MND11 N-4H
Farm Name: HG ENERGY II APPALACHIA
U.S. WELL NUMBER: 47-051-02406-00-00
Horizontal 6A New Drill
Date Issued: 9/13/2021

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.

API Number: _____

PERMIT CONDITIONS

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

09/17/2021

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

1) Well Operator: HG Energy II Appalachia, LLC ✓ 494519932 Marshall Franklin Powhatan Point ✓
Operator ID County District Quadrangle

2) Operator's Well Number: MND11 N-4H Well Pad Name: MND11 ✓

3) Farm Name/Surface Owner: CONSOL/HG Energy II Appalachia, LLC Public Road Access: Nixon Ridge Road (SLS 21/1)

4) Elevation, current ground: 1252' Elevation, proposed post-construction: 1234' ✓

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

(b) If Gas Shallow x Deep _____
Horizontal _____

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6474' - 6540', 66' Thick, 4204 psi *Benny Miller 8-2-21*

8) Proposed Total Vertical Depth: 6535' ✓

9) Formation at Total Vertical Depth: Marcellus ✓

10) Proposed Total Measured Depth: 14961' ✓

11) Proposed Horizontal Leg Length: 7407' ✓

12) Approximate Fresh Water Strata Depths: 538', 801', 898', 947' ✓

13) Method to Determine Fresh Water Depths: Nearest offset wells

14) Approximate Saltwater Depths: None

15) Approximate Coal Seam Depths: 840' - 845' ✓

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes x No _____

(a) If Yes, provide Mine Info: Name: Marshall County Mine
Depth: 890' to seam base
Scam: Pittsburgh #8
Owner: Murray Energy Corporation

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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	20"	New	J-55	94	40'	40' ✓	Drilled In
Fresh Water	13 3/8"	New	J-55	54.5	1150'	1150' ✓	CTS
Coal							
Intermediate	9 5/8"	New	J-55	40	3150'	3150' ✓	CTS
Production	5 1/2"	New	P-110	23	14961'	14961' ✓	CTS
Tubing							
Liners							

QEB 8/18/21

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	20"	20"	0.438	2110		Type 1, Class A	
Fresh Water	13 3/8"	17.5"	0.380	2730		Type 1, Class A	40% excess, yield = 1.20, CTS
Coal							
Intermediate	9 5/8"	12 1/4"	0.395	3950		Type 1, Class A	40% excess, yield = 1.20, CTS
Production	5 1/2"	8 1/2"	0.415	14520 ✓	11500 ✓	Type 1, Class A	20% excess, load yield = 1.19, CTS
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,535 feet. Drill horizontal leg to estimated 7,407' lateral length, 14,961' TMD. Hydraulically fracture and stimulate and be capable of producing from the Marcellus Formation. Should an unanticipated void be encountered 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.

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

The stimulation will be 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 expected to exceed 11,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.603 acres

22) Area to be disturbed for well pad only, less access road (acres): 10.00 acres

23) Describe centralizer placement for each casing string:

Conductor - N/A
Surface Casing - Bow Springs (over collars) on first 2 joints then every third joint to 100' from surface
Intermediate Casing - Bow Springs (over collars) on first 12 joints, then every third joint to 100' from surface
Production Casing - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.

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

Conductor - Drilled in via Dual Rotary (no annular space)
Surface Casing - "15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield = 1.20 / CTS
Intermediate Casing - "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
Production Casing - "Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020 ExcessLead Yield=1.19Tail Yield=1.94CTS"

25) Proposed borehole conditioning procedures:

Conductor - Once at casing setting depth, ensure hole is clean at TD
Surface Casing - Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimum of 1 hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement.
Intermediate Casing - Circulate & condition @ TD w/ Air. RIH w/ casing & fill w/ Fresh Water. Circulate a minimum of 1 hole volume, plus 30 bbls of 6% bentonite Gel/50# of poly flake, then clear casing w/ Fresh Water prior to pumping cement.
Production Casing - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 30 minutes, 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.

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MND11 Well Pad (N-1H to N-4H)

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 pelletized 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>Calcium magnesium oxide</td> <td>90 - 100</td> <td>37247-91-9</td> </tr> </tbody> </table>	Ingredient name	%	CAS number	Calcium magnesium oxide	90 - 100	37247-91-9												
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MPA-170	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>1105-47-9</td> </tr> <tr> <td>Alkylarylsulfonate amine salt</td> <td>5 - 10</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	1105-47-9	Alkylarylsulfonate amine salt	5 - 10	Trade secret.	Polyoxyalkylenes	0.1 - 1	Trade secret.
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List of Frac Additives by Chemical Name and CAS #**MND11 Well Pad (N-1H to N-4H)**

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 - 051 - ~~02218~~
Operator's Well No. MND11 N-4H

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) Short Creek - Ohio River Quadrangle Powhatan Point 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 _____)

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, WBM, SOBMM, Horizontal - SOBMM

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

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

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

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

-Landfill or offsite name/permit number? See Attached

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

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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

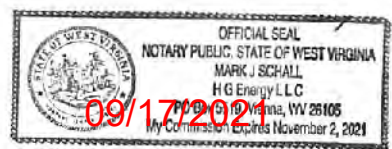
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Subscribed and sworn before me this 27th day of July, 2021

WV Department of Environmental Protection

[Signature] Notary Public

My commission expires 11/2/2021



Cuttings Disposal/Site Water

Cuttings - Haul off Company:

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

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

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

Disposal Locations:

Apex Environmental, LLC Permit # 06-08438
11 County Road 7B
Amsterdam, OH 43903
740-543-4889

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

Sycamore Landfill Inc, Permit #R90-079001 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 # 100663
1901 Park Side Drive
Elizabeth, PA 15037
412-384-7569

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

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

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

Brooke County Landfill Permit # SWF-103-87 / 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 156A
New Martinsville, WV 26035
304-455-3800

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

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

Northern A-1 Environmental Services Permit ID MID020906814
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

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

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

Nuverra Environmental Solutions
11942 Veterans Memorial Highway
Masontown, WV 26542

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

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

Disposal Locations:

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

Solidification/Incineration
Soil Remediation, Inc. Permit # 02-20753
6065 Arrel-Smith Road
Lowelville, OH 44436
330-526-6825

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

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

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

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

Equipment Transport
1 Tyler Court
Carlisle, PA 17015

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

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

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

Grosella (SWIW #34)
Permit # 4096
Rt. 88
Garrettsville, OH
718-275-4816

Kamble 1-D Well
Permit # 8780
7675 East Pike
Norwich, Oh 43767
614-648-8898
740-796-6495

09/17/2021

Environment

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

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

Mozana #1 Well (SWIW # 13)
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 Charrington Pkwy, Suite 200
Coraopolis, PA 15108
412-329-7275

SOS D#1 (SWIW #12)
Permit # 34-059-2-4202-00-00
Silcor 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. Pleasants 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 1,1385
Permit # 47-001-00561
200 Evergreen Drive
Waynesburg, PA 15730
304-323-6568

Chapin #7 UIC (SWIW #7)
Permit # 34-083-2-4197-00-00
Elkhead Gas & Oil Company
1216a Marne Rd. NE
Newark, OH 43055
740-763-3966

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HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 17.603 acres Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	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: Bang Allip

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

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

Title: Oil & Gas Inspector

Date: 8-2-21

Field Reviewed? Yes No

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09/17/2021

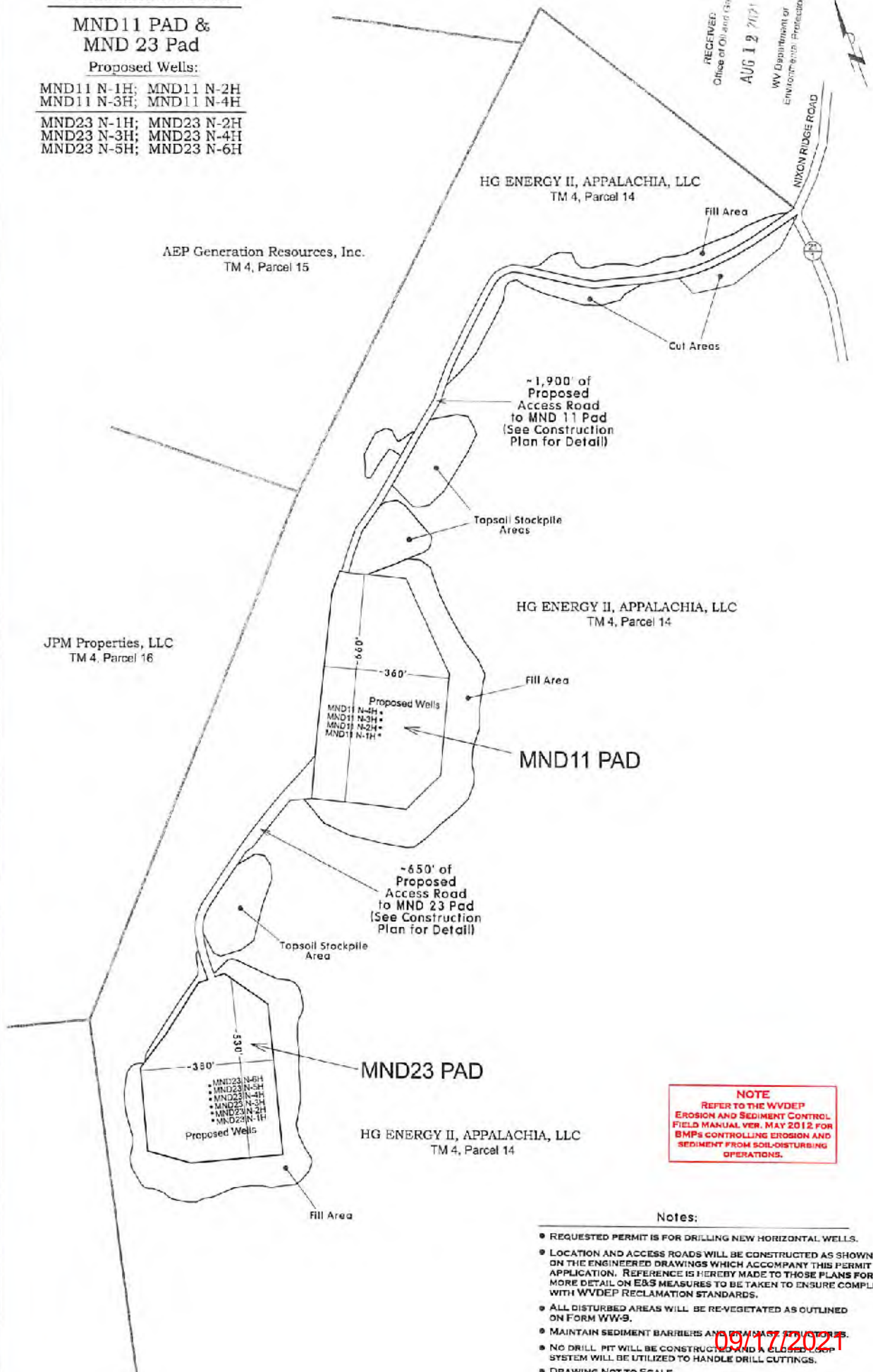
Reclamation Plan For:

MND 11 PAD &
MND 23 Pad

Proposed Wells:

MND11 N-1H; MND11 N-2H
MND11 N-3H; MND11 N-4H
MND23 N-1H; MND23 N-2H
MND23 N-3H; MND23 N-4H
MND23 N-5H; MND23 N-6H

RECEIVED
Office of Oil and Gas
AUG 12 2021
WV Department of
Environmental Protection

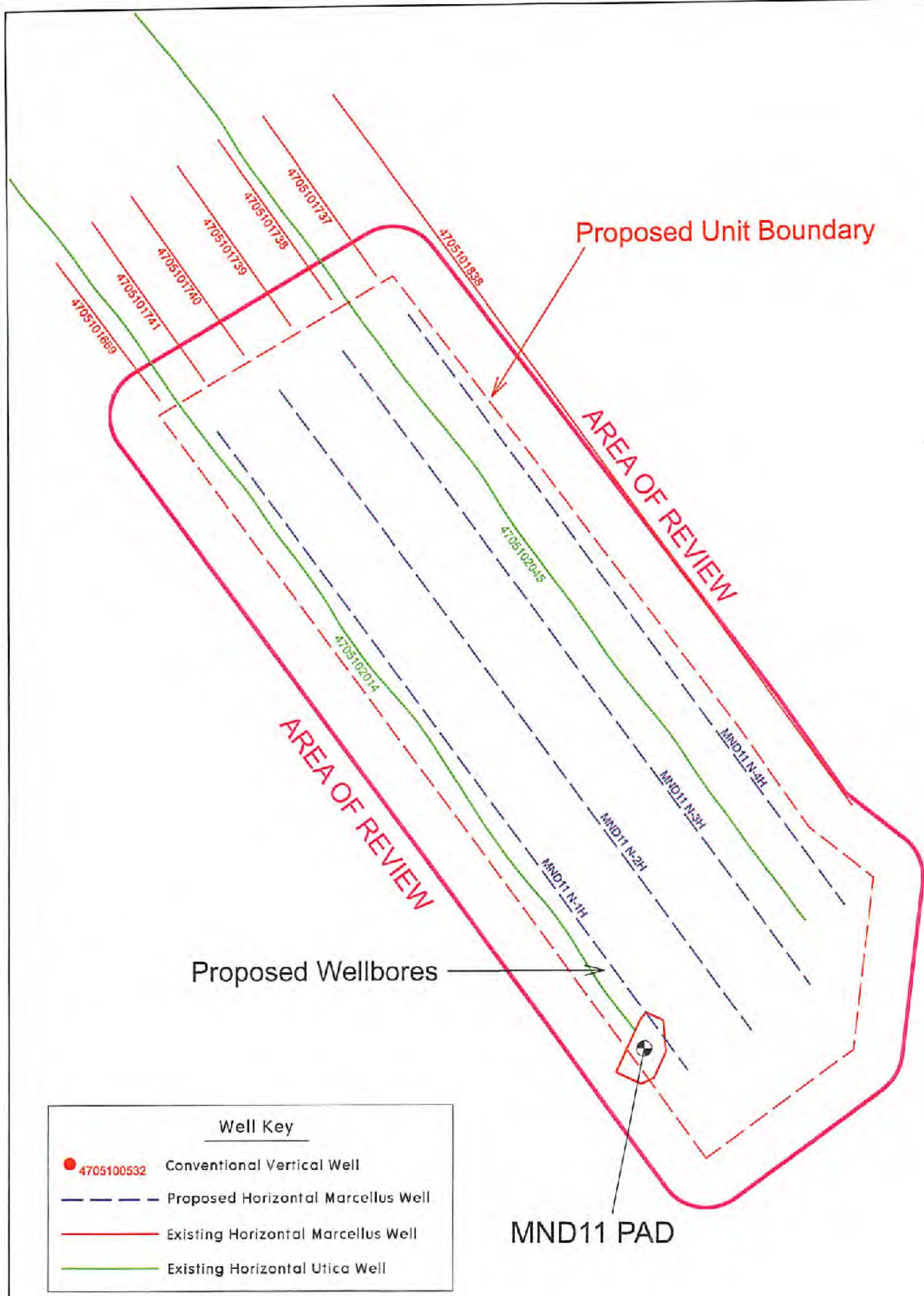


NOTE
REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

Notes:

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

09/17/2021



Well Key	
● 4705100532	Conventional Vertical Well
---	Proposed Horizontal Marcellus Well
---	Existing Horizontal Marcellus Well
---	Existing Horizontal Utica Well

NOTE:
See Attached Spreadsheet for Well Data
DATA SOURCE
WVGES Data Set - 2020

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AUG 12 2021

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

WV Department of
Environmental Protection
09/17/2021

Area of Review for:
MND11 PAD

Proposed MND11 N-1H Proposed MND11 N-2H
Proposed MND11 N-3H Proposed MND11 N-4H

Franklin District, Marshall County, W.Va.




SCALE: 1" = 1,320'



**EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:
MND11 PAD AND PROPOSED WELLS N-1H, N-2H, N-3H & N-4H**

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4705101669	MARSHALL	MND3 FHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,299	ACTIVE	39.850397	-80.792052
2	4705101737	MARSHALL	MND3 AHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,288	ACTIVE	39.850553	-80.791912
3	4705101738	MARSHALL	MND3 BHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,261	ACTIVE	39.850519	-80.791942
4	4705101739	MARSHALL	MND3 CHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,282	ACTIVE	39.850485	-80.791973
5	4705101740	MARSHALL	MND3 DHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,276	ACTIVE	39.850451	-80.792003
6	4705101741	MARSHALL	MND3 EHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,271	ACTIVE	39.850417	-80.792034
7	4705101838	MARSHALL	MND1 FHS	HG ENERGY II APPALACHIA	MARCELLUS SHALE	Horizontal Gas Production	6,175	ACTIVE	39.849794	-80.774299
8	4705102014	MARSHALL	MND20 DU	HG ENERGY II APPALACHIA	UTICA SHALE	Horizontal Gas Production	10,700	DRILLED - NOT COMPLETED	39.851731	-80.802995
9	4705102045	MARSHALL	MND20 EU	HG ENERGY II APPALACHIA	UTICA SHALE	Horizontal Gas Production	10,700	DRILLED - NOT COMPLETED	39.851774	-80.803054

SOURCE: WVGES DATASET (2017) and WVDEP WEBSITE


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AUG 12 2021
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 Environmental Protection

HG Energy II Appalachia, LLC

Site Safety Plan

MND 11 Well Pad
1931 Nixon Ridge Lane
Moundsville, Marshall County, WV 26041

July 2021: Version 1

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

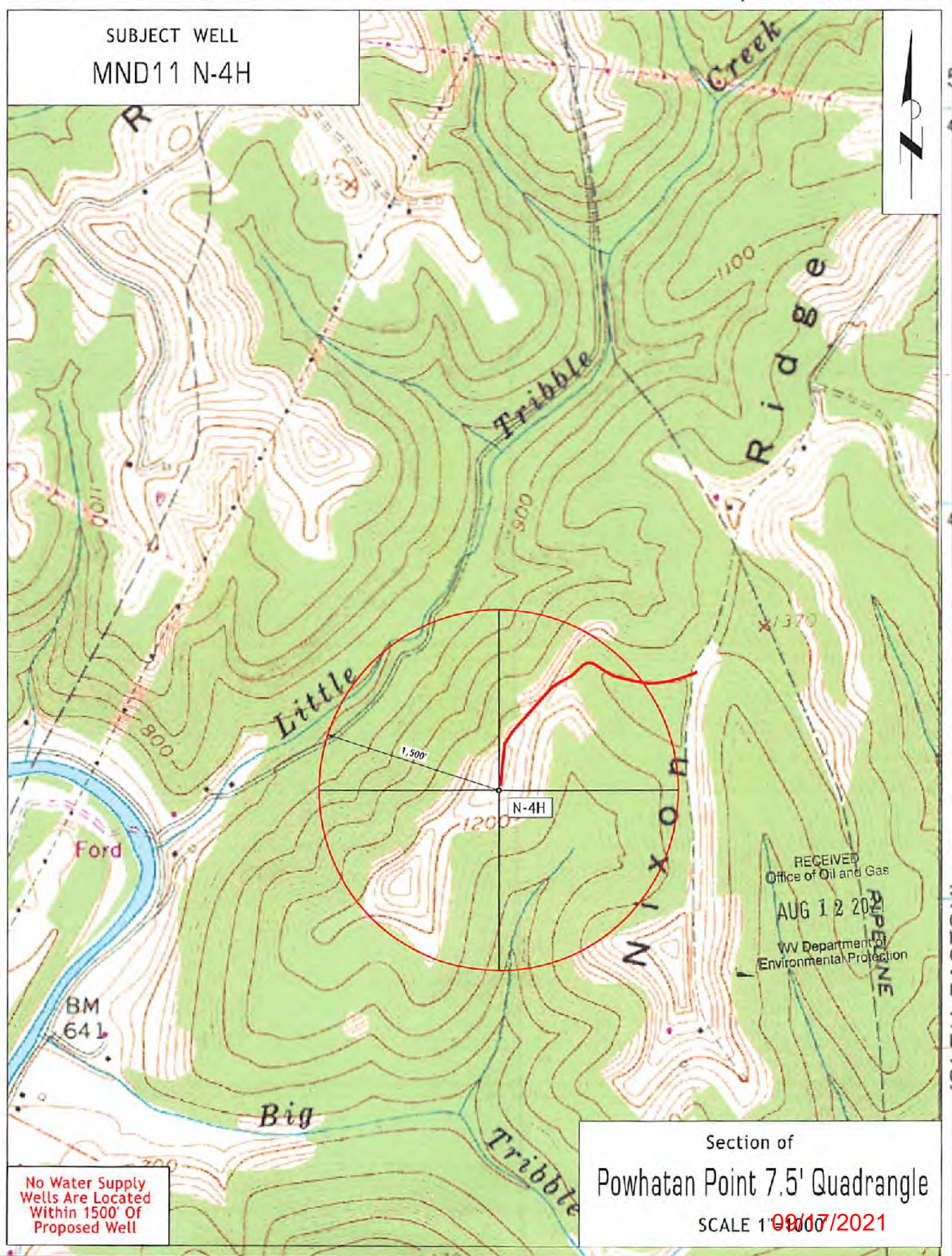
Bang Shihp 8-2-21
HG Energy II Appalachia, LLC.

5260 Dupont Road
Parkersburg, WV 26101

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WV Department of
Environmental Protection

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SUBJECT WELL
MND11 N-4H



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Environmental Protection

No Water Supply
Wells Are Located
Within 1500' Of
Proposed Well

Section of
Powhatan Point 7.5' Quadrangle

SCALE 1" = 1000'
09/17/2021



- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 525' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

LEGEND

- PROPOSED WELL
- WATER SOURCE
- REFERENCE NUMBER FOR SURFACE PARCEL OWNERSHIP
- REFERENCE NUMBER FOR MINERAL OWNERSHIP
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD
- BUFFER LINE
- EXISTING GAS WELL

LINE TABLE

LINE	BEARING	DISTANCE
R1	N89°25'20"E	365.81'
R2	S26°17'44"W	860.44'
R3	N09°36'50"W	206.04'
R4	N69°33'51"W	1693.23'
R5	S72°08'22"W	1835.16'

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83(m)
 N: 4407496.80
 E: 520294.30

UTM 17 - NAD83(ft)
 N: 14460262.36
 E: 1706998.79

LAT/LON DATUM-NAD83
 LAT: 39.817212
 LON: -80.762881

APPROX. LANDING POINT

UTM 17 - NAD83(m)
 N: 4407958.80
 E: 520914.70

UTM 17 - NAD83(ft)
 N: 14461778.17
 E: 1709034.20

LAT/LON DATUM-NAD83
 LAT: 39.821580
 LON: -80.755518

BOTTOM HOLE LOCATION

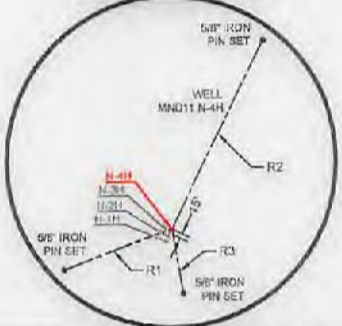
UTM 17 - NAD83(m)
 N: 4409777.00
 E: 519576.30

UTM 17 - NAD83(ft)
 N: 14467743.34
 E: 1704643.15

LAT/LON DATUM-NAD83
 LAT: 39.837774
 LON: -80.771202

GRID NORTH
 WEST VIRGINIA COORDINATE
 SYSTEM OF 1983
 NORTH ZONE

REFERENCE DETAIL: NTS



Washington Corporate Park II, Suite 101
 3000 Georgetown Drive
 Sewersville, PA 15142



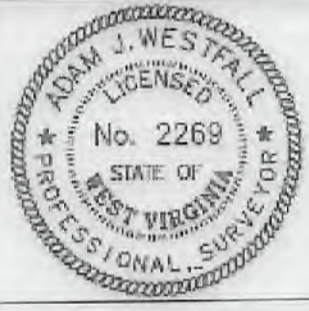
Civil Engineering | Land Development | Structure Design
 Land Planning | Landscape Architecture | Environmental

WATER WELLS:
 NONE FOUND

FILE #: MND11 N-4H
 DRAWING #: MND11 N-4H
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT H 138: 636.58'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: *Adam J. Westfall*



R.P.E.: _____ L.L.S.: P.S. NO. 2269

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019
 OPERATOR'S WELL #: MND11 N-4H
 API WELL # 47 51 02406 H6A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

PAGE: 1 OF 4

WATERSHED: SHORT CREEK-CHIO RIVER ELEVATION: 1,234'
 COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./CHIO
 SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 126.6
 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6

09/17/2021

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,981' ±
 WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
 Address: 5280 DUPONT ROAD Address: 5280 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Bottom Hole is located on topo map 13,600 feet south of Latitude: 39° 50' 00"

Well is located on topo map 5,874 feet south of Latitude: 39° 52' 30"

Bottom Hole is located on topo map 5,954 feet west of Longitude: 80° 45' 00"
 Well is located on topo map 3,618 feet west of Longitude: 80° 45' 00"

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83(m)
 N: 4407496.80
 E: 520294.30
 UTM 17 - NAD83(ft)
 N: 14460282.36
 E: 1706996.79
 LAT/LON DATUM-NAD83
 LAT: 39.817212
 LON: -80.762881

APPROX. LANDING POINT

UTM 17 - NAD83(m)
 N: 4407958.80
 E: 520914.70
 UTM 17 - NAD83(ft)
 N: 14461778.17
 E: 1709034.20
 LAT/LON DATUM-NAD83
 LAT: 39.821360
 LON: -80.755618

BOTTOM HOLE LOCATION

UTM 17 - NAD83(m)
 N: 4408777.00
 E: 519576.30
 UTM 17 - NAD83(ft)
 N: 14467743.34
 E: 1704643.15
 LAT/LON DATUM-NAD83
 LAT: 39.837774
 LON: -80.771202


Waterford Corporate Park, Suite 101
 2000 Greengrove Drive
 Sewell, PA 15142
 P: 724-445-1190
 F: 724-464-1104
 www.pve-llc.com




Civil Engineering | Land Development | Structure Design
 Land Planning | Landscape Architecture | Environmental



LEGEND

 PROPOSED SURFACE HOLE LOCATION ON 7.5' TOPOGRAPHIC MAP

 PROPOSED BOTTOM HOLE LOCATION ON 7.5' TOPOGRAPHIC MAP

FILE #: MND11 N-4H

DRAWING #: MND11 N-4H

SCALE: 1"=2000'

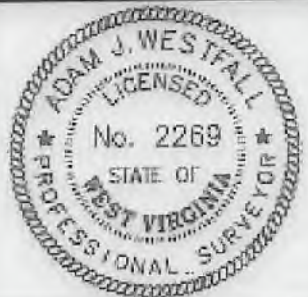
MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE U.S.G.S. MONUMENT
 OF ELEVATION: H 138: 638.58'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: Adam J. Westfall

R.P.E.: _____ L.L.S.: _____ P.S. NO. 2269



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019

OPERATOR'S WELL #: MND11 N-4H

API WELL # 47 51 02404
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

PAGE: 2 OF 4

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1,234'

COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA/OHIO

SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 129.6

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 128.6

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) _____

09/17/2021

TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,961' ±

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE

Address: 5280 DUPONT ROAD Address: 5280 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

HG Plot Number	MPID	Original Lessor	Original Lessee	Surface Parcel Code
①	05-0004-0014-0000-0000 05-0004-0014-0001-0000 05-0004-0014-0002-0000	MILLER CHARLES W	CHEVRON USA INC	388, 389, 394
		PARSONS PAUL ET UX	CHEVRON USA INC	
		RUSSELL SHARON LYN	CHEVRON USA INC	
		HUFF TIMOTHY ET UX	CHEVRON USA INC	
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	
		CRONIN MARY JO	CHEVRON USA INC	
		KURPIL RICHARD ET UX	CHEVRON USA INC	
		CLIFTON CLARA MAE	CHEVRON USA INC	
		EDWARDS GEORGE ET UX	CHEVRON USA INC	
		KYLE DONNA FAE	CHEVRON USA INC	
		CONNER JUDITH MAY	CHEVRON USA INC	
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	
		AB RESOURCES LLC	NPAR LLC	
		NPAR LLC	Chevron USA INC	
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
②	05-0004-0018-0000-0000	MCCLEINTOCK DALE ET UX	CHEVRON USA INC	168
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
③	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	169
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
④	05-0004-0003-0000-0000	Southern Country Farms Inc.	Noble Energy, Inc.	198
		Noble Energy, Inc.	HG ENERGY II APPALACHIA, LLC	
⑤	05-0004-0001-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	170
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑥	05-0002-0018-0005-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	171
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑦	05-0002-0018-0004-0000	Peggy S. Hartley	CNX Gas Company, LLC and Noble Energy	185

		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑧	05-0002-0013-0002-0000	Arden Ray Heatherington	Noble Energy INC	187
		NOBLE ENERGY INC	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Noble Energy INC	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑨	05-0002-0011-0000-0000	Westanco Trust & Investment Services, a Division of Westanco, Inc., Trustee of the John T. Gallagher Scholarship Trust	NOBLE ENERGY INC	186
		Noble Energy	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Noble Energy	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	

Waterloo Corporate Park II, Suite 101
2003 Georgetown Drive
Bridlewood, WV 26103

P. 724-444-1100
F. 724-444-1104
www.pve.com



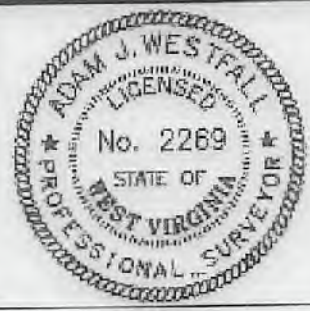
Civil Engineering | Land Development | Structural Design
Land Planning | Landscape Architecture | Environmental

LEGEND	
①	REFERENCE NUMBER FOR MINERAL OWNERSHIP

FILE #: MND11 N-4H
 DRAWING #: MND11 N-4H
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE U.S.G.S. MONUMENT
 OF ELEVATION: H 138: 638.58'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: Adam J. Westfall
 R.P.E.: _____ L.L.S.: P.S. NO. 2289



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019
 OPERATOR'S WELL #: MND11 N-4H
 API WELL # 47 51 62406
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep

Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1,234'
 COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO

SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 126.6
 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,961' ±
 WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
 Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

09/17/2021

156	SOUTHERN COUNTRY FARMS INC.	TAX MAP NO. 05-0004-0003-0013-0000
157	SOUTHERN COUNTRY FARMS INC.	TAX MAP NO. 05-0004-0034-0001-0000
158	SOUTHERN COUNTRY FARMS INC.	TAX MAP NO. 05-0004-0034-0001-0000
167	WEST WAYNE L. JR. ET. UX.	TAX MAP NO. 05-0004-0013-0001-0000
168	MCCUNTOCK DALE ET. UX.	TAX MAP NO. 05-0004-0013-0000-0000
169	FRANKLIN REAL ESTATE CO.	TAX MAP NO. 05-0004-0015-0000-0000
170	FRANKLIN REAL ESTATE CO.	TAX MAP NO. 05-0004-0001-0000-0000
171	AEP GENERATION RESOURCES INC.	TAX MAP NO. 05-0002-0013-0005-0000
172	TEXAS EASTERN TRANSMISSION	TAX MAP NO. 05-0002-0013-0000-0000
173	FARQUETOS ANDREW M. ET. AL.	TAX MAP NO. 05-0002-0009-0000-0000
182	FRANKLIN REAL ESTATE CO.	TAX MAP NO. 05-0005-0011-0000-0000
183	FRANKLIN REAL ESTATE CO.	TAX MAP NO. 05-0002-0012-0000-0000
184	CONSOLIDATION COAL COMPANY, ET. AL.	TAX MAP NO. 05-0002-0013-0004-0000
185	HARTLEY PEGGY S.	TAX MAP NO. 05-0002-0011-0000-0000
186	POTTS JAMES D. ET. UX.	TAX MAP NO. 05-0002-0013-0002-0000
187	HEATHERINGTON ARDEN RAY	TAX MAP NO. 05-0002-0010-0000-0000
188	POTTS JAMES D. ET. UX.	TAX MAP NO. 05-0002-0006-0000-0000
189	BARNHART THOMAS K. ET. UX.	TAX MAP NO. 05-0002-0005-0000-0000
190	CONSOLIDATION COAL COMPANY, ET. AL.	TAX MAP NO. 05-0004-0002-0000-0000
191	WEST WAYNE L. JR. ET. UX.	TAX MAP NO. 05-0004-0003-0000-0000
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333	HOLSTINE BERNARD W. & ROXANN L.	TAX MAP NO. 05-0009-0001-0000-0000
334	LEGG JAMES R. EST.	TAX MAP NO. 05-0009-0002-0001-0000
335	MCCUNTOCK DALE EDWARD	TAX MAP NO. 05-0004-0014-0001-0000
336	RUCKMAN JESSIE GLADYS - LIFE	
337	LEGG JEFFERY L.	
338	ANDERSON RHONDA MARIE	

Werkont Corporate Park B, Suite 101
200 Georgetown Drive
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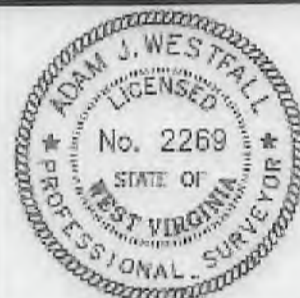
LEGEND	
100	REFERENCE NUMBER FOR SURFACE PARCEL OWNERSHIP

FILE #: MND11 N-4H
DRAWING #: MND11 N-4H
SCALE: 1"=2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT H 138: 638.58'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: Adam J. Westfall

R.P.E.: _____ L.L.S.: P.S. NO. 2269



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019
OPERATOR'S WELL #: MND11 N-4H
API WELL # 47 51 02406
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

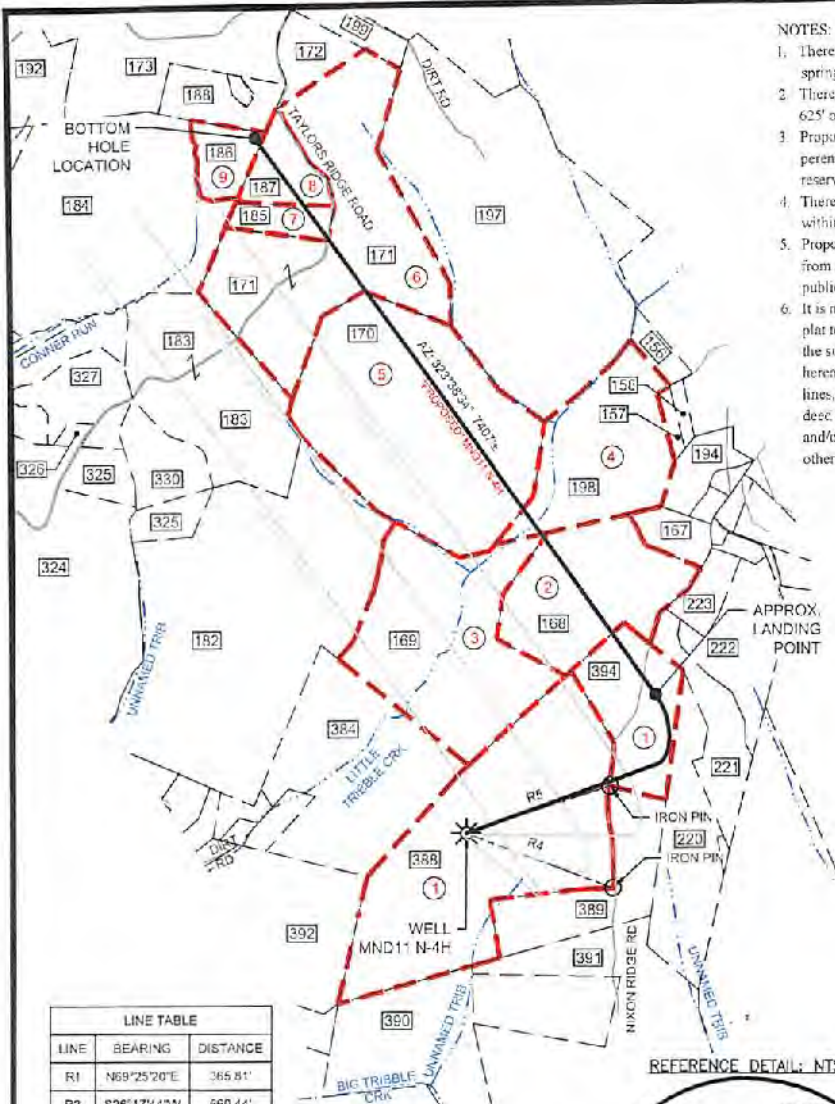
PAGE: 3 OF 4

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1,234'
COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO
SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 126.6
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.5

09/17/2021

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,961' ±
WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101



- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

LEGEND

- PROPOSED WELL
- WATER SOURCE
- REFERENCE NUMBER FOR SURFACE PARCEL OWNERSHIP
- REFERENCE NUMBER FOR MINERAL OWNERSHIP
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD
- BUFFER LINE
- EXISTING GAS WELL

LINE TABLE

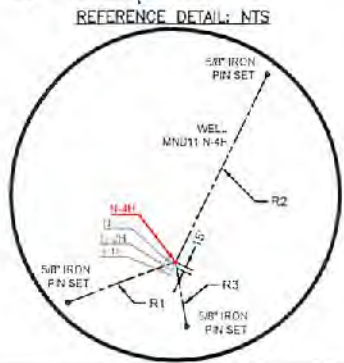
LINE	BEARING	DISTANCE
R1	N69°25'20"E	365.81'
R2	S26°17'44"W	660.44'
R3	N09°36'58"W	206.04'
R4	N69°33'51"W	1693.23'
R5	S72°08'22"W	1635.15'

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 F: 724-444-1504
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**WATER WELLS:
 NONE FOUND**



GRID NORTH COORDINATE
 SYSTEM OF 1983
 NORTH ZONE

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83(m)
 N: 4407496.80
 E: 520294.30

UTM 17 - NAD83(ft)
 N: 14460262.36
 E: 1706998.79

LAT/LON DATUM-NAD83
 LAT: 39.817212
 LON: -80.752861

APPROX. LANDING POINT

UTM 17 - NAD83(m)
 N: 4407958.80
 E: 520914.70

UTM 17 - NAD83(ft)
 N: 14451778.17
 E: 1709034.20

LAT/LON DATUM-NAD83
 LAT: 39.821360
 LON: -80.755618

BOTTOM HOLE LOCATION

UTM 17 - NAD83(m)
 N: 4408777.00
 E: 519576.30

UTM 17 - NAD83(ft)
 N: 14467743.34
 E: 1704843.15

LAT/LON DATUM-NAD83
 LAT: 39.837774
 LON: -80.771202

FILE #: MND11 N-4H

DRAWING #: MND11 N-4H

SCALE: 1"=2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE: U.S.G.S. MONUMENT
 OF ELEVATION: H 138: 838.58'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: Adam J. Westfall

R.P.E.: _____ L.L.S.: P.S. NO. 2269



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019

OPERATOR'S WELL #: MND11 N-4H

API WELL # 47 51 02406 H6A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

PAGE: 1 OF 4

WATERSHED: SHORT CREEK-CHIO RIVER ELEVATION: 1,234'

COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO

SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 126.6

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

RECEIVED
 Office of Oil and Gas
 AUG 18
 09/17/2021
 WV Department of Environmental Protection

TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,961' ±

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE

Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
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6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Bottom Hole is located on topo map 13,800 feet south of Latitude: 39° 50' 00"

Well is located on topo map 5,874 feet south of Latitude: 39° 52' 30"

Bottom Hole is located on topo map 5,994 feet west of Longitude: 80° 45' 00"
 Well is located on topo map 3,618 feet west of Longitude: 80° 45' 00"

SURFACE HOLE LOCATION (SHL)
 UTM 17 - NAD83(m)
 N: 4407495.80
 E: 520294.30
 UTM 17 - NAD83(ft)
 N: 14460262.36
 E: 1706993.79
 LAT/LON DATUM-NAD83
 LAT: 39.817212
 LON: -80.762881

APPROX. LANDING POINT
 UTM 17 - NAD83(m)
 N: 4407958.80
 E: 520914.70
 UTM 17 - NAD83(ft)
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BOTTOM HOLE LOCATION
 UTM 17 - NAD83(m)
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 E: 519576.30
 UTM 17 - NAD83(ft)
 N: 14467743.34
 E: 1704643.15
 LAT/LON DATUM-NAD83
 LAT: 39.837774
 LON: -80.771202



Wetland Contour Book II, July 1971
 2002 Geographic Data
 Sewley, PA 15143

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LEGEND	
	PROPOSED SURFACE HOLE LOCATION ON 7.5' TOPOGRAPHIC MAP
	PROPOSED BOTTOM HOLE LOCATION ON 7.5' TOPOGRAPHIC MAP

FILE #: MND11 N-4H
 DRAWING #: MND11 N-4H
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE U.S.G.S. MONUMENT
 OF ELEVATION H 138: 638.58'

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SIGNED: Adam J. Westfall

R.P.E.: _____ L.L.S.: P.S. NO. 2269



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019
 OPERATOR'S WELL #: MND11 N-4H
 API WELL # 47 51 02404
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

PAGE: 2 OF 4

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1,234'
 COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA / OHIO
 SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 126.6
 OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6

RECEIVED
 Office of Oil and Gas

AUG 12 2021

WV Department of Environmental Protection

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
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TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,961' ±
 WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
 Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

156	SOUTHERN COUNTRY FARMS INC.	TAX MAP NO. 05-0004-0003-0013-0000
157	SOUTHERN COUNTRY FARMS INC.	TAX MAP NO. 05-0004-0004-0001-0000
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390	LEGG JAMES R. EST.	TAX MAP NO. 05-0009-0003-0000-0000
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393	LEGG JEFFERY L.	TAX MAP NO. 05-0009-0002-0001-0000
394	ANDERSON RHONDA MARIE	TAX MAP NO. 05-0004-0014-0001-0000

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2002 Georgetown Drive
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LEGEND	
100	REFERENCE NUMBER FOR SURFACE PARCEL OWNERSHIP

FILE #: MND11 N-4H
DRAWING #: MND11 N-4H
SCALE: 1"=2000
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT H 138: 638.58'

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SIGNED: [Signature]
R.P.E.: _____ L.L.S.: P.S. NO. 2269

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019
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API WELL # 47 51 02406
STATE COUNTY PERMIT

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 Gas Liquid Injection Storage Shallow

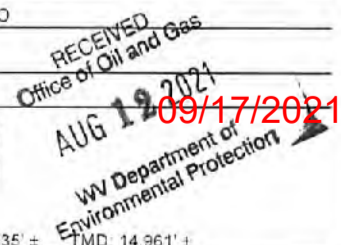
PAGE 3 OF 4

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1,234'
COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO

SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 126.6
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT / MARCELLUS ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,961' ±
WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101



HG Plat Number	MPID	Original Lessor	Original Lessee	Surface Parcel Code
①	05-0004-0014-0000-0000 05-0004-0014-0001-0000 05-0004-0014-0002-0000	MILLER CHARLES W	CHEVRON USA INC	388, 389, 394
		PARSONS PAUL ET UX	CHEVRON USA INC	
		RUSSELL SHARON LYN	CHEVRON USA INC	
		HUFF TIMOTHY ET UX	CHEVRON USA INC	
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	
		CRONIN MARY JO	CHEVRON USA INC	
		KURPIE RICHARD ET UX	CHEVRON USA INC	
		CLIFTON CLARA MAE	CHEVRON USA INC	
		EDWARDS GEORGE ET UX	CHEVRON USA INC	
		KYLE DONNA FAE	CHEVRON USA INC	
		CONNOR B. DITH MAY	CHEVRON USA INC	
		SCHIBELI GORD PAULET AI	AB RESOURCES LLC	
		AB RESOURCES LLC	NPAR LLC	
NPAR LLC	Chevron USA INC			
Chevron USA INC	HG ENERGY II APPALACHIA, LLC			
②	05-0004-0013-0000-0000	MCCLELLIN DALE ET UX	CHEVRON USA INC	158
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
③	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	169
		Noble Energy Inc	HG ENERGY II APPALACHIA, LLC	
④	05-0004-0003-0000-0000	Southern Country Farms, Inc.	Noble Energy, Inc.	198
		Noble Energy, Inc.	HG ENERGY II APPALACHIA, LLC	
⑤	05-0004-0001-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	170
		Noble Energy Inc	HG ENERGY II APPALACHIA, LLC	
⑥	05-0002-0013-0005-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	171
		Noble Energy Inc	HG ENERGY II APPALACHIA, LLC	
⑦	05-0002-0013-0004-0000	Peggy S. Hardley	CNX Gas Company, LLC and Noble Energy	185

		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑧	05-0002-0013-0002-0000	Arden Ray Heatherington	Noble Energy INC	187
		NOBLE ENERGY INC	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Noble Energy INC	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑨	05-0002-0011-0000-0000	WestBanco Trust & Investment Services, a Division of WestBanco, Inc., Trustee of the John T. Gallagher Scholarship Trust	Noble Energy INC	186
		Noble Energy	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Noble Energy	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	

Waterloo Corporate Park #1, Suite 121
2900 Georgetown Drive
Savannah, GA 31404



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LEGEND	
①	REFERENCE NUMBER FOR MINERAL OWNERSHIP

FILE #: MND11 N-4H
DRAWING #: MND11 N-4H
SCALE: 1"=2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE: U.S.G.S. MONUMENT H 139: 636.58'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: *Adam J. Westfall*

R.P.E.: _____ L.L.S.: P.S. NO. 2269



() DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304



DATE: MARCH 7, 2019 rev 5/6/2019
OPERATOR'S WELL #: MND11 N-4H
API WELL # 47 51 02404
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

PAGE: 4 OF 4

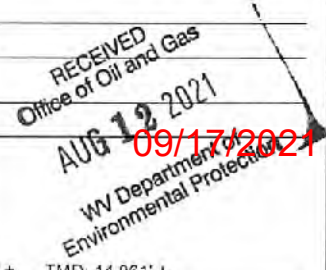
WATERSHED: SHORT CREEK-OHIO RIVER
COUNTY/DISTRICT: MARSHALL / FRANKLIN
SURFACE OWNER: HG ENERGY II APPALACHIA, LLC
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY

ELEVATION: 1,234'
QUADRANGLE: POWHATAN POINT, W. VA./OHIO
ACREAGE: 126.5
ACREAGE: 126.5

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT / MARCELLUS
WELL OPERATOR: HG ENERGY II APPALACHIA, LLC
Address: 5260 DUPONT ROAD
City PARKERSBURG State WV Zip Code 26101

ESTIMATED DEPTH: TVD: 8,535' ± TMD: 14,961' ±
DESIGNATED AGENT: DIANE C. WHITE
Address: 5260 DUPONT ROAD
City PARKERSBURG State WV Zip Code 26101



WW-6A1
(5/13)

Operator's Well No. MND11 N-4H

**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 Lease Chain -

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

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

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

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

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

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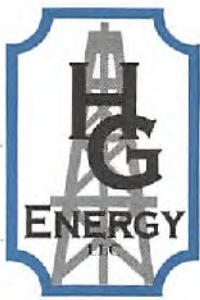
AUG 12 2021
Page 1 of 4

WV Department of
Environmental Protection
09/17/2021

HG Energy II Appalachia, LLC - MND11 N-4H Leasechain

HG Plat Number	MPID	Original Lessor	Original Lessee	Royalty	Book	Page		
1)	05-0004-0014-0000-0000 05-0004-0014-0001-0000 05-0004-0014-0002-0000	MILLER CHARLES W	CHEVRON USA INC	Not less than 1/8	853	59		
		PARSONS PAUL ET UX	CHEVRON USA INC				853	430
		RUSSELL SHARON LYN	CHEVRON USA INC				853	422
		HUFFTIMOTHY ET UX	CHEVRON USA INC				854	47
		ARNOLD LLOYD C ET UX	CHEVRON USA INC				854	39
		CRONIN MARY JO	CHEVRON USA INC				864	43
		KURPIL RICHARD ET UX	CHEVRON USA INC				863	594
		CLIFTON CLARA MAE	CHEVRON USA INC				853	426
		EDWARDS GEORGE ET UX	CHEVRON USA INC				853	418
		KYLE DONNA FAE	CHEVRON USA INC				853	449
		CONNER JUDITH MAY	CHEVRON USA INC				853	445
		SCHIBELHOOD PAUL ET AL	AB RESOURCES LLC				695	629
		AB RESOURCES LLC	NPAR LLC				25	494
		NPAR LLC	Chevron USA INC HG ENERGY II				756	332
Chevron USA INC	APPALACHIA, LLC	41	154					
2)	05-0004-0013-0000-0000	MCLINTOCK DALE ET UX	CHEVRON USA INC	Not less than 1/8	773	615		
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC				41	154
3)	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	Not less than 1/8	829	157		
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC				39	1
4)	05-0004-0003-0000-0000	Southern Country Farms, Inc.	Noble Energy, Inc.	Not less than 1/8	801	79		
		Noble Energy, Inc.	HG ENERGY II APPALACHIA, LLC				39	1
5)	05-0004-0001-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	Not less than 1/8	829	157		
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC				39	1
6)	05-0002-0013-0005-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	Not less than 1/8	829	157		
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC				39	1
7)	05-0002-0013-0004-0000	Peggy S. Sebulsky	ONX Gas Company, LLC and Noble Energy		873	547		
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC				39	1
8)	05-0002-0013-0002-0000	Arden Ray Featherington	Noble Energy INC		797	445		

		NOBLE ENERGY INC	CNX Gas Company, LLC	34	167
		CNX Gas Company, LLC	Noble Energy INC	37	169
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	39	1
9)	05-0002-0011-0000-0000	WesBanco Trust & Investment Services, a Division of WesBanco, Inc.. Trustee of the John T. Gallagher Scholarship Trust	NOBLE ENERGY INC	Not less than 1/8	803 350
		Noble Energy	CNX Gas Company, LLC	36	503
		CNX Gas Company, LLC	Noble Energy	37	169
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	39	1



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

2105102406

July 27, 2021

Kelly Kees
WV DEP
Division of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Drilling Under Roads – MND11 N-4H (47-051-02216)⁰²⁴⁰⁶
Franklin District, Marshall County
West Virginia

Dear Ms. Kees -

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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Environmental Protection

09/17/2021

HG Plat Number	MP/D	Original Lessor	Original Lessee	Surface Parcel Code
①	05-0004-0014-0000-0000 05-0004-0014-0001-0000 05-0004-0014-0002-0000	MILLER CHARLES W	CHEVRON USA INC	388, 389, 394
		PARSONS PAUL ET UX	CHEVRON USA INC	
		RUSSELL SHARON LYN	CHEVRON USA INC	
		HUFF TIMOTHY ET UX	CHEVRON USA INC	
		ARNOLD LLOYD C ET UX	CHEVRON USA INC	
		CRONIN MARY JO	CHEVRON USA INC	
		KURPIL RICHARD ET UX	CHEVRON USA INC	
		CLIFTON CLARA MAE	CHEVRON USA INC	
		EDWARDS GEORGE ET UX	CHEVRON USA INC	
		KYLE DONNA MAE	CHEVRON USA INC	
		CONNER JUDITH MAY	CHEVRON USA INC	
		SCHEIBELHOOD PAUL ET AL	AB RESOURCES LLC	
		AB RESOURCES LLC	NPAR LLC	
		NPAR LLC	Chevron USA INC	
Chevron USA INC	HG ENERGY II APPALACHIA, LLC			
②	05-0004-0013-0000-0000	MCCINTOCK DALE ET UX	CHEVRON USA INC	168
		Chevron USA INC	HG ENERGY II APPALACHIA, LLC	
③	05-0004-0015-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	169
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
④	05-0004-0003-0000-0000	Southern Country Farms, Inc.	Noble Energy, Inc.	198
		Noble Energy, Inc.	HG ENERGY II APPALACHIA, LLC	
⑤	05-0004-0001-0000-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	170
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑥	05-0002-0013-0005-0000	AEP Generation Resources Inc. and Kentucky Power Company	Noble Energy, Inc.	171
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑦	05-0002-0013-0004-0000	Peggy S. Hartley	CNX Gas Company, LC and Noble Energy	185

		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑧	05-0002-0013-0002-0000	Arden Ray Heatherington	Noble Energy INC	187
		NOBLE ENERGY INC	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Noble Energy INC	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	
⑨	05-0002-0011-0000-0000	Westanco Trust & Investment Services, a Division of Westanco, Inc., Trustee of the John T. Gallagher Scholarship Trust	NOBLE ENERGY INC	186
		Noble Energy	CNX Gas Company, LLC	
		CNX Gas Company, LLC	Noble Energy	
		NOBLE ENERGY INC	HG ENERGY II APPALACHIA, LLC	

Westwood Corporate Park II, Suite 101
2500 Georgetown Drive
Beverly, PA 15815

P: 724-644-1100
F: 724-644-1101
www.pve.com

PVE

Civil Engineering | Land Development | Structure Design
Land Planning | Landscape Architecture | Environmental

LEGEND

① REFERENCE NUMBER FOR MINERAL OWNERSHIP

FILE #: MND11 N-4H

DRAWING #: MND11 N-4H

SCALE: 1"=2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT H 138: 639.58'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: Adam J. Westfall

R.P.E.: _____ L.L.S.: P.S. NO. 2269



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep

Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1,234'

COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO

SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 126.6

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 126.6

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON

CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT / MARCELLUS

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC

Address: 5260 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101

DATE: MARCH 7, 2019 rev 5/6/2019

OPERATOR'S WELL #: MND11 N-4H

API WELL # 47 51 02406

STATE COUNTY PERMIT

PAGE: 4 OF 4

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09/17/2021
WV Department of Environmental Protection

ESTIMATED DEPTH: TVD: 6,535' ± TMD: 14,961' ±

DESIGNATED AGENT: DIANE C. WHITE

Address: 5260 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101



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

Date of Notice Certification: 07/27/2021

API No. 47- 051 - ~~02210~~
Operator's Well No. MND11 N-4H
Well Pad Name: MND11

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>520294.3</u>
County:	<u>Marshall</u>		Northing:	<u>4407496.8</u>
District:	<u>Franklin</u>	Public Road Access:	<u>Nixon Ridge Road (SLS 21/1)</u>	
Quadrangle:	<u>Powhatan Point</u>	Generally used farm name:	<u>CONSOL</u>	
Watershed:	<u>Short Creek - Ohio River</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 type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input 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 checked="" 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 checked="" 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, personal service, the return receipt card or other postal receipt for certified mailing.

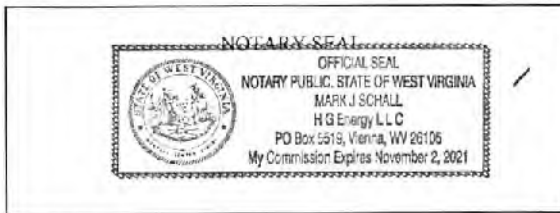
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Office of Oil and Gas

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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 Energy 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 27th day of July, 2021.

[Signature] 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.

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WV Department of
Environmental Protection

09/17/2021

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

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

Date of Notice: 07/29/2021 Date Permit Application Filed: 08/06/2021

Notice of:

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

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

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

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

Notice is hereby provided to: * Surface owner not noticed, as is the same as the operator

SURFACE OWNER(s)
 Name: HG Energy II Appalachia, LLC
 Address: 5260 Dupont Road
 Parkersburg, WV 26101
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: Murray Energy Corporation
 Address: 46226 National Road
 St Clairsville, OH 43950

COAL OPERATOR
 Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
 Name: HG Energy II Appalachia, LLC
 Address: 5260 Dupont Road
 Parkersburg, WV 26101
 Name: _____
 Address: _____

WATER PURVEYOR(s)
 Name: _____
 Address: _____

SURFACE OWNER(s) (Impoundments/Pits)
 Name: _____
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
 Name: _____
 Address: _____

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 Office of Oil and Gas
 AUG 12 2021

*Please attach additional forms if necessary

09/17/2021

WW-6A
(5-12)

API NO. 47-4705102406
OPERATOR WELL NO. MND11 N-1H-N-1H
Well Pad Name: MND11

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

Water Well Testing:

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

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No wellpad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) ^{RECEIVED} ^{Office of Oil and Gas} ^{AUG 12 2021} ^{Secretary} ^{WV Department of} ^{Environmental Protection} shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding Environmental Protection noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such

09/17/2021

WW-6A
(5-12)

API NO. 47- _____
OPERATOR WELL NO. MND11 N-1H-N-4H
Well Pad Name: MND11

factors, if necessary.

Written Comment:

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

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

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

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 the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

WW-6A
(5-12)

4705102406

API NO. 47- _____
OPERATOR WELL NO. MND11 N-1H - N-4H
Well Pad Name: MND11

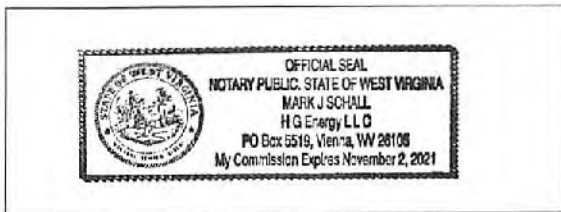
Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the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

Notice is hereby given by:

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



Subscribed and sworn before me this 29th day of July, 2021.
[Signature] Notary Public
My Commission Expires 11/2/2021

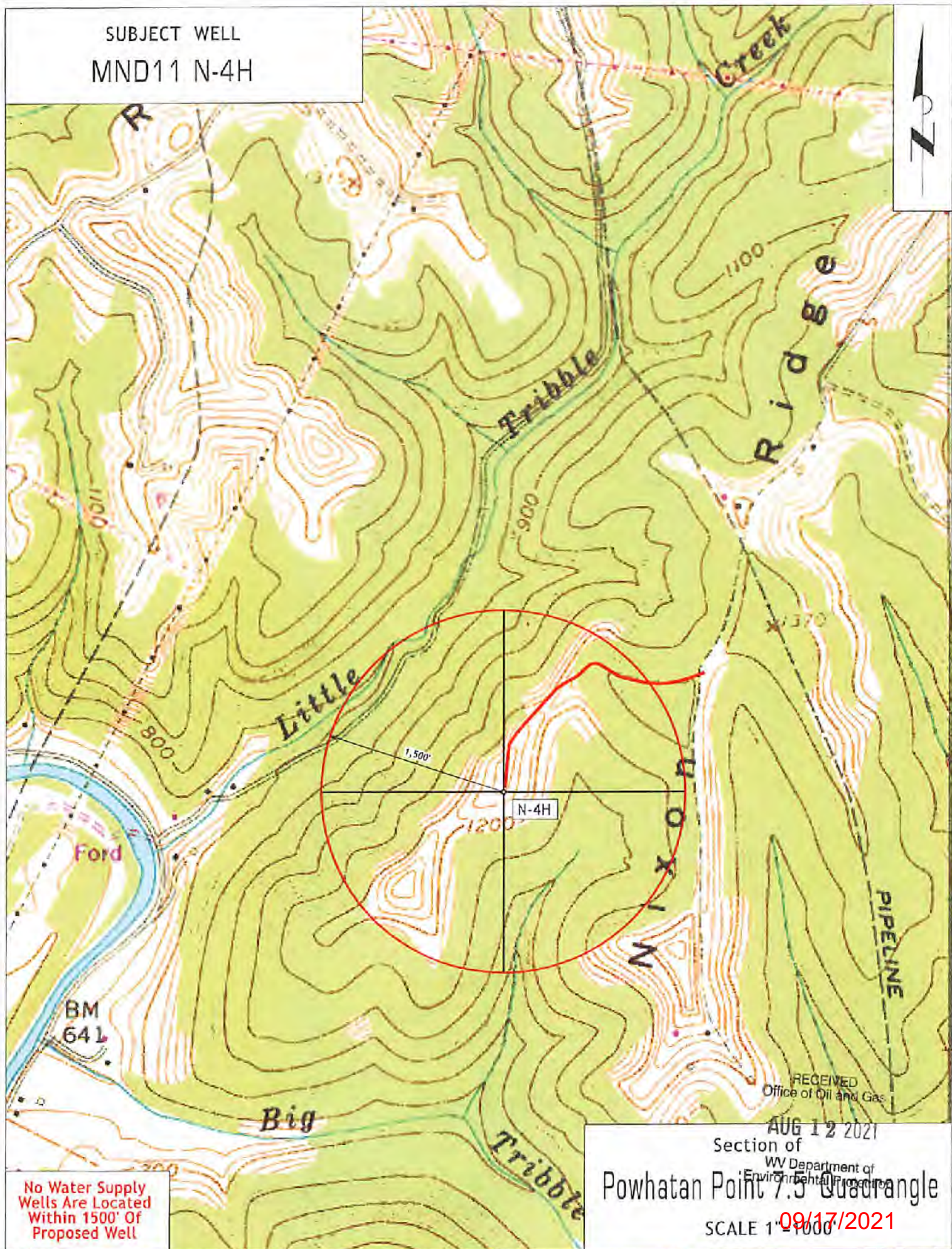
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Office of Oil and Gas

AUG 12 2021

WV Department of
Environmental Protection

09/17/2021

SUBJECT WELL
MND11 N-4H



No Water Supply
Wells Are Located
Within 1500' Of
Proposed Well

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Office of Oil and Gas
AUG 12 2021

Section of
WV Department of
Environmental Protection
Powhatan Point 7.5 Quadrangle

09/17/2021
SCALE 1" = 1000'

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

WAIVER


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.

Surface Owner Waiver:

I, Eric Grayson, for HG Energy II Appalachia, LLC, hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>520294.3</u>
County:	<u>Marshall</u>		Northing:	<u>4407496.8</u>
District:	<u>Franklin</u>	Public Road Access:	<u>Nixon Ridge Road (SLS 21/1)</u>	
Quadrangle:	<u>Powhatan Point</u>	Generally used farm name:	<u>CONSOL</u>	
Watershed:	<u>Short Creek - Ohio River</u>			

Name: Eric Grayson, VP, HG Energy II Appalachia, LLC
Address: 5260 Dupont Road
Parkersburg, WV 26101

Signature: 
Date: 07/27/2021

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 deprivacyofficer@wv.gov.

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WV Department of
Environmental Protection

09/17/2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

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

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

July 29, 2021

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

Subject: DOH Permit for the MND-11 Pad, Marshall County
 MND-11 N-4H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0370 which has been issued to HG Energy II Appalachia for access to the State Road for a well site located off Marshall County Route 21/1 SLS MP 1.88.

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

Very Truly Yours,

Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office O&G Coordinator

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

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WV Department of
 Environmental Protection

List of Frac Additives by Chemical Name and CAS #**MND11 Well Pad (N-1H to N-4H)**

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

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WV Department of
Environmental Protection
09/17/2021

CONSTRUCTION IMPROVEMENT PLANS FOR

MND11 PAD

MOUNDSVILLE
MARSHALL COUNTY
WEST VIRGINIA

**WVDEP OOG
ACCEPTED AS-BUILT**

WV 6/3/2019

Estimated Gross Material Balance (CY)			
Final Development - Gravel Option			
	Cut	Fill	Stockpile
Pad	129,100	103,500	5,600
Pond & Pump Station	12,493	8,551	0,942
Totals	121,593	112,051	6,542
Total Site Balance:			9,542 CUT
Stripped Topsoil (Limits of Earthwork)			11,707
Est. Swell Factor (20%)			2,323
Est. Topsoil Stockpile Volume (Loose CY)			13,845
Est. Topsoil To Be Respread on Cut/Fill Slopes			3,445
Minimum Total Stockpile Capacity (Required) (CY)			19,737

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

Estimated Gravel Quantities			
	Access Road	Pad	TOTAL
1/2" Soil Cement (Placed In)	4,595	27,305	31,900
3" Crusher Run (Total)	--	2,967	2,967
Top Coat Chio & Seal (Placed CY)	4,595		
Estimated Compacted Filter Rock Length (LJ)	2,224	1,449	3,673
Estimated Limits of Disturbance (Acres)			17,603
Well Pad and Sump Area Peak Pre Construction Elevation (F)			1270.00
Well Pad Subbase Elevation (Top of Soil Cement) (F)			1253.80
Well Pad Surface Elevation (F)			1254.06

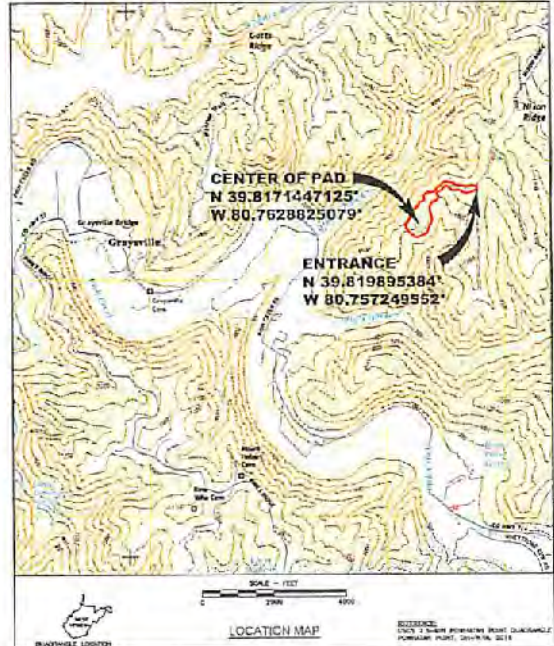
SHT. NO.	SHEET TITLE
1	TITLE SHEET
2-4	SITE DEVELOPMENT PLANS
5	PAD SECTIONS
6-7	ACCESS ROAD SECTIONS
8-9	GENERAL NOTES
9-13	DETAILS
14	RESTORATION PLAN
15	PROPERTY MAP

WELL #	LAT.	LONG.
1	N 39.81710022	W 80.76294849
2	N 39.81713758	W 80.76292603
3	N 39.81717493	W 80.76290357
4	N 39.81721229	W 80.76288111
11WE	N 39.81718920	W 80.76281931

WELL ELEVATIONS 1234.55

CP #	NORTHING	EASTING	ELEV.	DESCRIPTION
1	14480738	1707298	1218.758	CP ADJ OPUS
2	14480135	1707568	1253.137	CP IP
3	14459433	1708592	1202.618	CP IP
4	14490128	1708659	1230.318	CP
5	14490722	1707358	1220.048	CP SNS
6	14480859	1707281	1216.504	CP IP REP
7	14481009	1707564	1234.724	CP IP REP

RECORD OWNER	RECORD LOT #	RECORD AREA OF LDI	AREA WITHIN LDI
HG ENERGY PROPERTY	TM 4 PARCEL 14	121,531 AC.	17,977 AC.
RHONDA MARIE ANDERSON	25-05-A-0014-0001	32,8728 AC.	0,028 AC.
TOTAL LIMIT OF DISTURBANCE			17,603 AC.



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

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

- CONSTRUCTION SEQUENCE:
- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITY, INCLUDING CLEARING AND GRUBBING, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF WEST VIRGINIA (811) A MINIMUM OF 3 DAYS PRIOR TO EXCAVATION WORK. THE CONTRACTOR ALSO SHALL CLEARLY DELINEATE SENSITIVE AREAS, RIPARIAN FOREST BUFFER BOUNDARIES, THE LIMITS OF CLEARING, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE, AND SHALL INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE.
 - SITE ACCESS - THIS IS THE FIRST LAND-DISTURBANCE ACTIVITY TO TAKE PLACE AT THE SITE AND CONTRACTOR SHALL PROVIDE BMPs TO MINIMIZE ACCELERATED EROSION AND SEDIMENTATION FROM CONSTRUCTION ROUTES AND AREAS DESIGNATED FOR EQUIPMENT OR OTHER USE AT THE SITE INCLUDING PARKING AND STOCKPILES.
 - SEDIMENT BARRIERS - INSTALL PERIMETER BMPs AFTER THE CONSTRUCTION SITE IS ACCESSED. KEEPING ASSOCIATED CLEARING AND GRUBBING LIMITED TO ONLY THAT AMOUNT REQUIRED FOR INSTALLING PERIMETER BMPs.
 - LAND CLEARING AND GRADING - IMPLEMENT CLEARING AND GRADING ONLY AFTER ALL DOWNSLOPE E&S BMPs HAVE BEEN CONSTRUCTED AND STABILIZED.
 - SURFACE STABILIZATION - APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS REACHED FINAL GRADE, HAS BEEN DELAYED OR OTHERWISE TEMPORARILY SUSPENDED.
 - UPON COMPLETION OF PAD GRADING, COMPACT THE PAD TO GRADE AND BEGIN PLACEMENT OF PAD WORKING SURFACE.

REVISION	DATE	DESCRIPTION
6	5/29/19	REVISIONS PER WDEP
5	5/17/19	REVISE WDEP QUANTITY TABLES AND DEPTH'S FOR POND & SUMP
4	8/15/18	REVISIONS PER WDEP
3	1/09/18	REVISE WELL LAYOUTS PER CLIENT UPDATE LOG.
2	6/19/18	EXPANDED PAD AND ADDED ADDITIONAL STOCKPILE
1	5/17/18	ADDED XOL WATERBANK RIGHT OF WAY



TITLE SHEET

HG MND11
 MARSHALL COUNTY
 WEST VIRGINIA

PREPARED FOR
HG ENERGY II APPALACHIA, LLC
 PARKERSBURG, WEST VIRGINIA

APPROVED: MFP 04/11/2018
 CHECKED: MFP 04/09/2018
 DRAWN: DSA 04/02/2018
 PROJECT No. 4000-PAD0962

Penn E&R
 Environmental & Remediation, Inc.
 111 RYAN COURT, PITTSBURGH, PA 15205
 412-722-1222

Dany Miller 8-2-21

WEST VIRGINIA 811 CALL BEFORE YOU DIG!

Dial 811 or 800.245.4348
 www.digbeforeyoudig.com

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

DRAWING NUMBER: **PAD07655-01**
 SHEET 1

COORDINATES WV STATE PLANE,
 NORTH ZONE, NAD 83.

S:\PROJECTS\TELESCOPE-PAD07655\HG_LAND_11_PAD\DCD\DRAWINGS\DWG\DWG_11_PITTING.PLT (PITTING) (HCONSON) 5/29/2019 2:55 PM

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 Office of Oil and Gas
 WV Dept of
 Environmental
 AUG 12 2019

