



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

Wednesday, September 27, 2023
WELL WORK PERMIT
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit approval for WINANS 1216 S-6H
47-041-05749-00-00

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 handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the typed name and title.

James A. Martin
Chief

Operator's Well Number: WINANS 1216 S-6H
Farm Name: STEPHEN B. WINANS
U.S. WELL NUMBER: 47-041-05749-00-00
Horizontal 6A New Drill
Date Issued: 9/27/2023

Promoting a healthy environment

09/29/2023

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. 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. Also, 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.
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.

09/29/2023

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 Lewis Freeman Camden 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Winans 1216 S-6H ✓ Well Pad Name: Winans 1216

3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: CR 10 @ Freemans Creek Road

4) Elevation, current ground: 1399' ✓ Elevation, proposed post-construction: 1394'

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

(b) If Gas Shallow x Deep _____
Horizontal x

6) Existing Pad: Yes or No No ✓

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 7127/7200' and 73' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7,175' ✓

9) Formation at Total Vertical Depth: Marcellus ✓

10) Proposed Total Measured Depth: 32,172' ✓

11) Proposed Horizontal Leg Length: 23,739' ✓

12) Approximate Fresh Water Strata Depths: 214', 600', 861', 1306' ✓

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-01754, 2174, 5732, 4411, 2629)

14) Approximate Saltwater Depths: 1605' (Vanek 1215) ✓

15) Approximate Coal Seam Depths: 704', 865', 1214', 1285' (Surface casing is being extended to cover the coal in the DTI Field)

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

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

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

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120' ✓	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1360'	1360' ✓	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2480'	2480' ✓	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N-80 BTC	40	6375'	6375' ✓	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	32172'	32172' ✓	20% Excess Tail, CTS
Tubing							
Liners							

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@ww.gov C = AD O = WWDPE CU = OJ and Coe
Date: 2023.06.31 08:10:50 -0400

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lead 40% excess, Tail 0% Excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.10, tail yield 1.01
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 7175'. Drill horizontal leg to estimated 23,739' lateral length, 32,172' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gañtz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 30.31 acres

22) Area to be disturbed for well pad only, less access road (acres): 9.74 acres

23) Describe centralizer placement for each casing string:

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

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

Conductor -N/A, Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water/Coal - "15.6 ppg PNE-1 + 3% bwoc CaCl₂0% Excess/Yield=1.20 / CTS"
Intermediate 1 - "" Storage String "" CTS ""15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess/15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLACK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D801 - 0.03 gal / sack Retarder - 0% Excess"
Intermediate 2 - "Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂0% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂ zero% Excess. CTS"
Production - "Lead: 14.5 ppg POZ-PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% Excess/Lead Yield=1.19/Tail Yield=1.94CTS"

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.
Fresh Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.
Intermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate 2 - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.
Production - Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.

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*Note: Attach additional sheets as needed.

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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) Fink Creek Quadrangle Camden 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, Air/KCL, Air/SOBM, 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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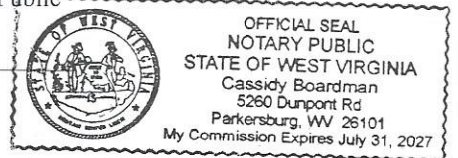
WV Department of
Environmental Protection

Subscribed and sworn before me this 15th day of August, 2023

Cassidy Boardman

Notary Public

My commission expires 7/31/2027



09/29/2023

HG Energy II Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 30.31 Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

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

Maintain E&S controls through the drilling and completion process

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds, email = Kenneth.L.Greynolds@wv.gov, G = AD O = WVDEP OJ = Oil and Gas
Date: 2023.08.17 10:04:57 -0400

Comments: Pre-seed/mulch as soon as reasonably possible per regulation.
Upgrade E&S if needed per WV DEP E&S manual.

Title: DEP State Oil & Gas Inspector Date: _____

Field Reviewed? Yes No

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HG Energy II Appalachia, LLC

Site Safety Plan

Winans 1216 Well Pad
2360 Freemans Creek Road, Camden
Lewis County, WV 26338

December 2022: Version 1

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

HG Energy II Appalachia, LLC

5260 Dupont Road

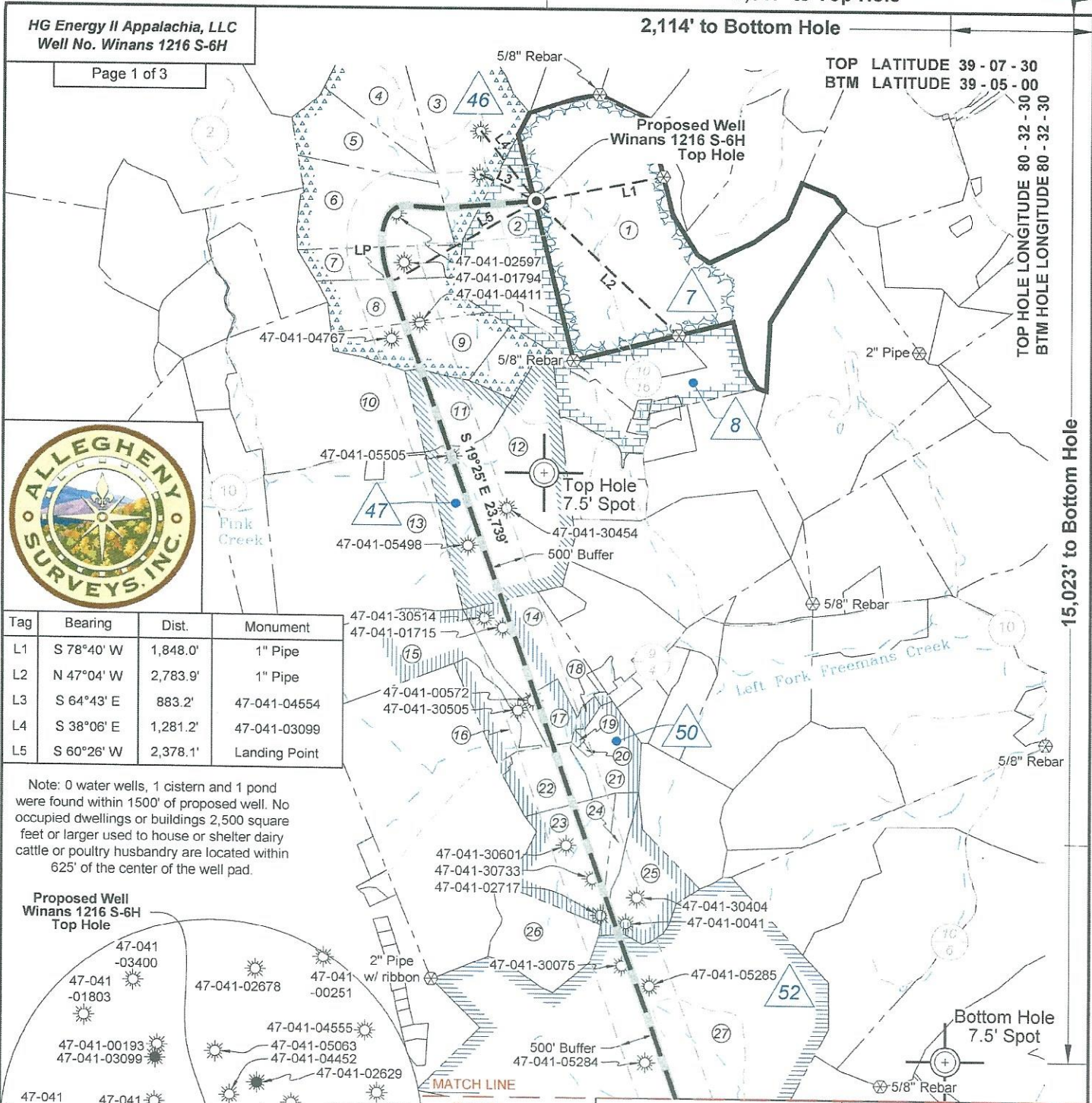
Parkersburg, WV 26101

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
DN: CN = Kenneth Greynolds email = Kenneth.L.
Greynolds@wv.gov C = AD O = WVDEP OU = Oil
and Gas
Date: 2023.08.17 10:15:03 -0400

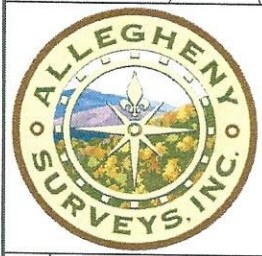
Kenneth L. Greynolds
1-12-23

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09/29/2023

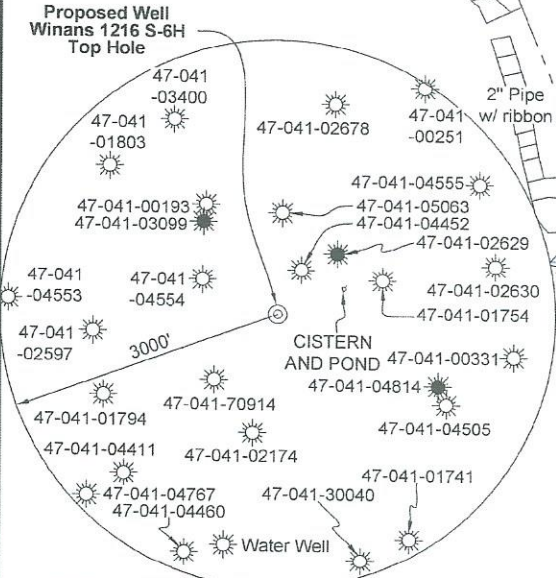


HG Energy II Appalachia, LLC
Well No. Winans 1216 S-6H
Page 1 of 3



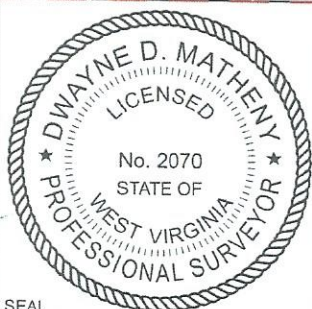
Tag	Bearing	Dist.	Monument
L1	S 78°40' W	1,848.0'	1" Pipe
L2	N 47°04' W	2,783.9'	1" Pipe
L3	S 64°43' E	883.2'	47-041-04554
L4	S 38°06' E	1,281.2'	47-041-03099
L5	S 60°26' W	2,378.1'	Landing Point

Note: 0 water wells, 1 cistern and 1 pond were found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



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

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



FILE NO: 43-12-FC-21
DRAWING NO: Winans 1216 S-6H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

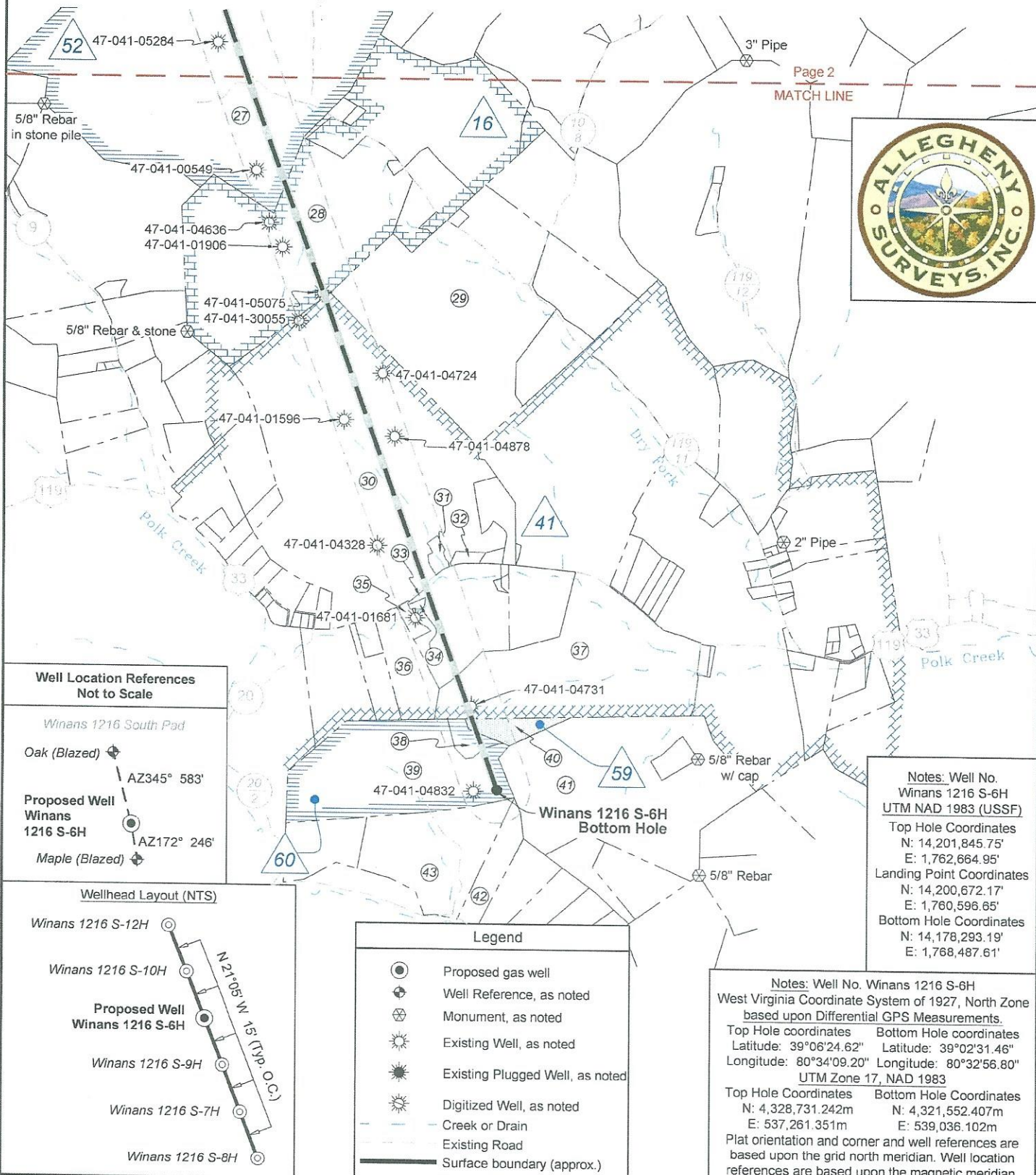
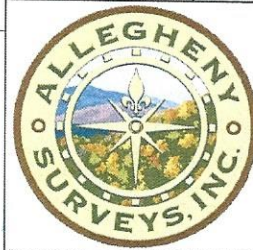
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: August 1 2023
OPERATOR'S WELL NO. Winans 1216 S-6H
API WELL NO
47 - 041 - 05749
STATE COUNTY PERMIT

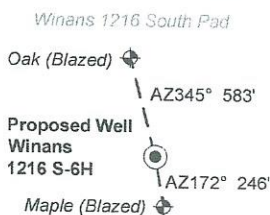
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,394' WATERSHED: Fink Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: Lewis
SURFACE OWNER: Stephen B. Winans ACREAGE: 09/29/2023
ROYALTY OWNER: Elaina D. Yanceris, et al, et al LEASE NO: ACREAGE: 123
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 32,172' MD

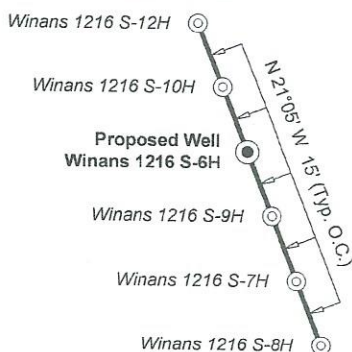
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



**Well Location References
Not to Scale**



Wellhead Layout (NTS)



Legend

- Proposed gas well
- ⊕ Well Reference, as noted
- ⊗ Monument, as noted
- ☀ Existing Well, as noted
- ☀ Existing Plugged Well, as noted
- ☀ Digitized Well, as noted
- - - Creek or Drain
- - - Existing Road
- Surface boundary (approx.)

Notes: Well No. Winans 1216 S-6H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,201,845.75'
E: 1,762,664.95'
Landing Point Coordinates
N: 14,200,672.17'
E: 1,760,596.65'
Bottom Hole Coordinates
N: 14,178,293.19'
E: 1,768,487.61'

Notes: Well No. Winans 1216 S-6H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'24.62" Latitude: 39°02'31.46"
Longitude: 80°34'09.20" Longitude: 80°32'56.80"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,328,731.242m N: 4,321,552.407m
E: 537,261.351m E: 539,036.102m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

FILE NO: 43-12-FC-21

DRAWING NO: Winans 1216 S-6H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:
Submeter

PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: August 1 2023

OPERATOR'S WELL NO. Winans 1216 S-6H

API WELL NO

47 — 041 — 05749
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,394' WATERSHED: Fink Creek

DISTRICT: Freemans Creek

SURFACE OWNER: Stephen B. Winans

ROYALTY OWNER: Elaina D. Yanceris, et al, et al

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 32,172' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

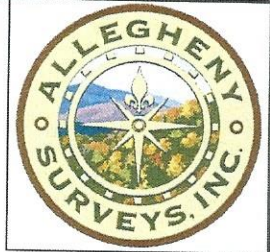
QUADRANGLE: Camden

COUNTY: Lewis

ACREAGE: 0.129/2023

ACREAGE: 123

7,175' TVD



No.	TM / Par	Owner	Bk / Pg	Ac.
1	4C / 31	Gerald P. Hull	W18 / 661	199.25
2	4C / 21	Stephen B. Winans	630 / 50	45.00
3	4C / 22	Robert & Brenda McKinley, et al	540 / 137	74.00
4	4C / 16	Robert & Brenda McKinley, et al	540 / 137	32.00
5	4C / 17	Jeremy H. Bennett	602 / 716	29.25
6	4C / 18	Robert & Brenda McKinley, et al	540 / 137	52.80
7	4C / 19	Robert & Brenda McKinley, et al	547 / 235	23.50
8	4D / 68	Robert & Brenda McKinley, et al	551 / 567	29.75
9	4D / 44	Stephen B. Winans	733 / 528	35.00
10	4D / 43	Garnett A. Gum Trust	W11 / 74	101.00
11	4D / 49.1	Dana H. & Lauren A. Hull	F29 / 592	25.00
12	4D / 49	David L. Smith	726 / 273	123.75
13	4D / 42	Garnett A. Gum Trust	W11 / 74	138.25
14	4D / 59.2	Christopher P. & Rachel M. White	650 / 708	43.94
15	4D / 60.3	Jeffrey A. White	606 / 591	17.27
16	4D / 60.2	Christopher P. White	598 / 647	14.97
17	4D / 57	Donald P. & Sandra L. White, et al	611 / 478	10.00
18	4D / 55	Frederick S. Epp	750 / 715	2.07
19	4D / 56.1	Christopher P. & Rachel M. White	663 / 374	0.62
20	4D / 56.2	Christopher P. & Rachel M. White	767 / 926	0.46
21	4D / 56	Christopher P. & Rachel M. White	767 / 926	20.80
22	4D / 61	Sam C. & Violet G. Thomas	680 / 164	19.30
23	4E / 29	James J. Keister, et al	739 / 796	35.00
24	4E / 30	James J. Keister, et al	739 / 796	11.93
25	4E / 21	Gerold P. Hull	499 / 316	30.22
26	4E / 20	James M. White, et al	494 / 259	37.75
27	5E / 1	Edwin A. & Ann K. Linger	315 / 369	412.38
28	5E / 4.1	Elizabeth A. Porter, et al	W34 / 516	159.31
29	5E / 6	Rodger L. & Coleen M. Myers	519 / 36	158.75
30	5F / 15	Jason S. & Joseph G. Davis, III	716 / 430	312.51
31	5F / 15.10	Stephen & Regina Stewart	761 / 225	2.35
32	5F / 15.6	Harold J. & Brianna J. Richards	669 / 585	1.78
33	5F / 15.8	Joseph A. Kyer	713 / 696	0.55
34	5F / 15.9	Joseph A. Kyer	717 / 798	0.67
35	5F / 15.3	Mavis C. Alfred	W23 / 176	2.70
36	5F / 14	Mark S. & Samye Householder	751 / 423	21.00
37	5F / 16.4	Stephen L. DeBrular	572 / 545	122.69
38	5F / 7	Stephen L. & Kathy M. DeBrular	660 / 461	5.31
39	5F / 1	Robin's Nest Farms, LLC	552 / 65	82.44
40	5F / 20	Stephen & Kathy M. DeBrular	660 / 461	5.00
41	5F / 22	Lesa M. & Walter L. Jordan, II	663 / 331	137.18
42	5F / 6	Laura Duvall Heirs	80 / 403	15.25
43	5F / 5	Robin's Nest Farms, LLC	552 / 65	54.00

ID	Lease
7	Boyd Gum, et ux
8	William & Mary Winans
16	Noble Energy, Inc.
41	S.D. Camden, et al
46	J.P. Hull
47	J.P. Hull
50	Howard & Lucille Ferguson, et al
52	Robert T. Harrison, et ux
59	Lewis S. DeBrular, et ux
60	Norma Jeager

FILE NO: 43-12-FC-21
DRAWING NO: Winans 1216 S-6H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: August 1 2023
OPERATOR'S WELL NO. Winans 1216 S-6H
API WELL NO
47 - 041 - 05749
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,394' WATERSHED: Fink Creek
DISTRICT: Freemans Creek

QUADRANGLE: Camden
COUNTY: Lewis

SURFACE OWNER: Stephen B. Winans

ACREAGE: 123

ROYALTY OWNER: Elaina D. Yanceris, et al, et al

LEASE NO: _____ ACREAGE: 123

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 32,172' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

WW-6A1
(5/13)

Operator's Well No. Winans 1216 S-6H

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

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

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

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

See Attached Sheets

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Co-Tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-Tenancy Act
Horizontal Well Unit Utilization - Subject to unitization filing with the WV Oil and Gas Conservation Commission

**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: Accountant

Page 1 of _____

09/29/2023

HG Energy Appalachia, LLC - Winans 1216 56H Lease Chain

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1216S Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE
7	FK053212	03-004C-0031-0000	Q100386000	BOYD GUM AND MARY M. GUM, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	58	474
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51	795
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	58	362
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717	1
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	ASSIGNMENT	722	170
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	WVS05	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499
				8	FK053100	03-004C-0021-0000 03-004D-0046-0000 03-004D-0046-0001 03-004D-0047-0000 03-004D-0047-0001 03-004D-0047-0002 03-005D-0064-0000 03-005D-0065-0000	Q100670000	DOMINION ENERGY TRANSMISSION, INC.
DOMINION ENERGY TRANSMISSION, INC.	HOPE NATURAL GAS COMPANY	DEED	155					202
DOMINION ENERGY TRANSMISSION, INC.	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89
DOMINION ENERGY TRANSMISSION, INC.	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127
DOMINION ENERGY TRANSMISSION, INC.	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795
DOMINION ENERGY TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	MEMORANDUM OF FARMOUT AGREEMENT	9					628
DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC	LIMITED PARTIAL ASSIGNMENT (50%)	672					154
DOMINION ENERGY TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	684					57
DOMINION ENERGY TRANSMISSION, INC.	NOBLE ENERGY, INC.	ASSIGNMENT	712					848
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	717					1
DOMINION ENERGY TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	ASSIGNMENT	722					170
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	MERGER/NAME CHANGE	WVS05					
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723					499
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734					558
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT	736	220				
AC	EV012066	03-004C-0022-0000 03-004C-0016-0000 03-004C-0017-0000 03-004C-0018-0000	Q111100000	J. P. HULL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	68	104
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVS05	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848

46	INVENTORY	QTY/AMOUNT	CLASSIFICATION	ACQUISITION/PROPERTY	COUNTERPARTY	DATE	TYPE	PAGE	TOTAL
47	FK013957	03-004C-0019-0000 03-004D-0068-0000 03-004D-0044-0000 03-004D-0045-0000	Q100908000	CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05		
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		723	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		734	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)		736	
				J. P. HULL	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8		68	
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED		294	
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT		425	
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		51	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		58	
				DOMINION TRANSMISSION, INC.	DOMINION TRANSMISSION, INC.	MEMORANDUM OF FARMOUT AGREEMENT		672	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)		684	
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)		712	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT		717	
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		722	
				DOMINION TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVS05	170	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		723	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT		724	
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	FARMOUT AGREEMENT		734	
HOWARD & LUCILLE FERGUSON ET AL	UNION DRILLING INC	ASSIGNMENT (68%)		736					
UNION DRILLING INC	UNION DRILLING INC	NOT LESS THAN 1/8		310					
EQUITABLE RESOURCES EXPLORATION INC	EQUITABLE RESOURCES EXPLORATION INC	ASSIGNMENT		467					
EQUITABLE RESOURCES EXPLORATION INC	EQUITABLE RESOURCES EXPLORATION INC	ASSIGNMENT		477					
EQUITABLE RESOURCES ENERGY COMPANY	ENERVEST EAST LIMITED PARTNERSHIP	ASSIGNMENT		471					
ENERVEST EAST LIMITED PARTNERSHIP	THE HOUSTON EXPLORATION COMPANY	ASSIGNMENT		530					
THE HOUSTON EXPLORATION COMPANY	THE HOUSTON EXPLORATION COMPANY	ASSIGNMENT		586					
THE HOUSTON EXPLORATION COMPANY	SENECA-UPSHUR PETROLEUM INC	ASSIGNMENT		592					
SENECA-UPSHUR PETROLEUM INC	SENECA-UPSHUR PETROLEUM LLC	CONFIRMATORY DEED		654					
SENECA-UPSHUR PETROLEUM LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		729					
ROBERT T. HARRISON AND SHEILA HARRISON, HIS WIFE	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		577					
REVA J. HARRISON, WIDOW	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		577					
PERRY SCOTT KNEPPER	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		577					
Alice May Bookout and Gary D. Bookout, her husband	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		577					
ELIZABETH ANN FIKE AND J. ROGERS FIKE, HER HUSBAND	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		577					
JOHN P. HARRISON AND ANN HARRISON, HIS WIFE	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		577					
SABRA LEE DONNELL, UNMARRIED	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		578					
CONSTANCE W. FURIATE, WIDOW	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		579					
MARGARET H. SCHREIBER (MARRIED PERSON ACTING IN HER OWN RIGHT)	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		579					
SYLVIA DEBINION	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		583					
JEFFREY PHILLIP WHITE, AN INDIVIDUAL DEALING IN THEIR SOLE AND SEPARATE PROPERTY	DOMINION EXPLORATION & PRODUCTION, INC.	NOT LESS THAN 1/8		585					

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52	L022857	03-005E-0001-0000	L022857	ERICA W. CLARY, MARRIED AND DEALING IN HER SOLE AND SEPARATE PROPERTY FAITH E. ROBERTS, MARRIED AND DEALING IN HER SOLE AND SEPARATE PROPERTY LISA G. BLACKWELL, MARRIED AND ACTING IN HER SOLE AND SEPARATE PROPERTY LAURA K. TAYLOR, MARRIED AND ACTING IN HER SOLE AND SEPARATE PROPERTY VATHINEE SENIVONGS WHITE, WIDOW EVELYN H. WHITE, WIDOW DOMINION EXPLORATION & PRODUCTION INC DOMINION TRANSMISSION, INC. CONSOL ENERGY HOLDINGS LLC XVI CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC.	DOMINION EXPLORATION & PRODUCTION, INC. DOMINION EXPLORATION & PRODUCTION, INC. DOMINION EXPLORATION & PRODUCTION, INC. DOMINION EXPLORATION & PRODUCTION, INC. DOMINION TRANSMISSION, INC. CONSOL ENERGY HOLDINGS LLC XVI CNX GAS COMPANY LLC NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 ASSIGNMENT MERGER/NAME CHANGE (50%) ASSIGNMENT	592 595 595 595 612 613 651 651 9 659 717 722	294 429 434 439 491 208 137 318 471 521 1 170
16	CNX052978 FEE CNX052980 FEE CNXDVO11668 FEE	03-005E-0004-0000 03-005E-0004-0001 03-005E-0004-0002 03-005E-0004-0003 03-005E-0004-0004 03-005E-0004-0005	CNX052978 FEE CNX052980 FEE CNXDVO11668 FEE	NOBLE ENERGY, INC. S D CAMDEN ET AL SOUTHERN OIL COMPANY SOUTHERN OIL COMPANY HOPE NATURAL GAS COMPANY HOPE NATURAL GAS COMPANY OHIO-WEST VIRGINIA OIL & GAS CO ONG PRODUCING COMPANY CONSOLIDATED GAS SUPPLY CORPORATION CONSOLIDATED GAS TRANSMISSION CORPORATION ONG DEVELOPMENT COMPANY ONG TRANSMISSION CORPORATION ONG TRANSMISSION CORPORATION DOMINION EXPLORATION & PRODUCTION INC DOMINION TRANSMISSION, INC. CONSOL ENERGY HOLDINGS LLC XVI CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC SOUTHERN OIL COMPANY THE RESERVE GAS COMPANY HOPE NATURAL GAS COMPANY CONSOLIDATED GAS SUPPLY CORPORATION ONG PRODUCING COMPANY ONG DEVELOPMENT COMPANY CONSOLIDATED GAS TRANSMISSION CORPORATION DOMINION EXPLORATION & PRODUCTION, INC. DOMINION TRANSMISSION, INC. DOMINION TRANSMISSION, INC. CONSOL ENERGY HOLDINGS LLC XVI CNX GAS COMPANY LLC NOBLE ENERGY, INC.	MINERAL DEED NOT LESS THAN 1/8 ASSIGNMENT DEED CONFIRMATORY DEED ASSIGNMENT ASSIGNMENT ASSIGNMENT MERGER/NAME CHANGE MERGER/NAME CHANGE MERGER/NAME CHANGE ASSIGNMENT MERGER/NAME CHANGE (50%) PARTIAL ASSIGNMENT (50%) NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8	722 40 85 85 294 85 414 420 425 425 WVSOS WVSOS 9 651 651 9 659 796 581 581 582 9 9 659 717 722	293 561 106 106 89 494 408 127 628 137 318 471 521 735 254 259 410 471 471 521 1 170
41	CNX053120	03-005E-0029-0000 ET AL	CNX053120	Lewis Stephen DeBruler and Kathy M. DeBruler, his wife, JTWR0S NORMA JAEGER JONATHAN BURK SUMPTER II RACHEL WILLIAMSON DOMINION EXPLORATION & DEVELOPMENT COMPANY CONSOL GAS COMPANY CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC DOMINION EXPLORATION & DEVELOPMENT COMPANY DOMINION EXPLORATION & DEVELOPMENT COMPANY DOMINION EXPLORATION & DEVELOPMENT COMPANY CONSOL GAS COMPANY CNX GAS COMPANY LLC NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 MERGER/NAME CHANGE MERGER/NAME CHANGE ASSIGNMENT (50%) ASSIGNMENT	796 581 581 582 9 9 659 717 722	735 254 259 410 471 471 521 1 170
59		03-005F-0020-0000	HG103000	Lewis Stephen DeBruler and Kathy M. DeBruler, his wife, JTWR0S NORMA JAEGER JONATHAN BURK SUMPTER II RACHEL WILLIAMSON DOMINION EXPLORATION & DEVELOPMENT COMPANY CONSOL GAS COMPANY CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC DOMINION EXPLORATION & DEVELOPMENT COMPANY DOMINION EXPLORATION & DEVELOPMENT COMPANY DOMINION EXPLORATION & DEVELOPMENT COMPANY CONSOL GAS COMPANY CNX GAS COMPANY LLC NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 MERGER/NAME CHANGE MERGER/NAME CHANGE ASSIGNMENT (50%) ASSIGNMENT	796 581 581 582 9 9 659 717 722	735 254 259 410 471 471 521 1 170
60	L023643001 L023643002 L023643003	02-005F-0001-0000 03-005F-0059-0000 (formerly 02-005F-0001-0001)	L023643001 L023643002 L023643003	Lewis Stephen DeBruler and Kathy M. DeBruler, his wife, JTWR0S NORMA JAEGER JONATHAN BURK SUMPTER II RACHEL WILLIAMSON DOMINION EXPLORATION & DEVELOPMENT COMPANY CONSOL GAS COMPANY CNX GAS COMPANY LLC CNX GAS COMPANY LLC NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC DOMINION EXPLORATION & DEVELOPMENT COMPANY DOMINION EXPLORATION & DEVELOPMENT COMPANY DOMINION EXPLORATION & DEVELOPMENT COMPANY CONSOL GAS COMPANY CNX GAS COMPANY LLC NOBLE ENERGY, INC. HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8 NOT LESS THAN 1/8 NOT LESS THAN 1/8 MERGER/NAME CHANGE MERGER/NAME CHANGE ASSIGNMENT (50%) ASSIGNMENT	796 581 581 582 9 9 659 717 722	735 254 259 410 471 471 521 1 170

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09/29/2023



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

August 21, 2023

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

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WV Department of
Environmental Protection

RE: Drilling Under Roads – Winans 1216 S-6H
Freemans Creek District, Lewis County
West Virginia

Dear Mr. Blevins -

HG Energy II Appalachia, LLC, is submitting the attached application for a new well work permit for the Winans 1216 well pad. As an authorized representative, I certify HG Energy II Appalachia, LLC, has the right to drill, stimulate, extract, produce and market the oil, gas or condensate for all leases through which the Winans 1216 laterals will drill through including any and all roads crossed under as identified on the attached survey plat.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

09/29/2023

WW-PN
(11-18-2015)

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: The Weston Democrat Newspaper ✓

Public Notice Date: Wednesday, June 28th & Wednesday, July 5th, 2023

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: HG Energy II Appalachia, LLC ✓ **Well Number:** Winans 1216 S-6H ✓

Address: 5260 Dupont Road
Parkersburg, WV 26101

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u> ✓	County:	<u>Lewis</u> ✓
District:	<u>Freemans Creek</u> ✓	Quadrangle:	<u>Camden 7.5'</u> ✓
UTM Coordinate NAD83 Northing:	<u>4328731.2</u> ✓		
UTM coordinate NAD83 Easting:	<u>537261.4</u> ✓		
Watershed:	<u>Fink Creek</u> ✓		

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Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

WV Department of
Environmental Protection

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

09/29/2023

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

Date of Notice Certification: 08/21/2023

API No. 47- _____
Operator's Well No. Winans 1216 S-6H
Well Pad Name: Winans 1216

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>537261.4</u>
County: <u>Lewis</u>		Northing: <u>4328731.2</u>
District: <u>Freemans Creek</u>	Public Road Access: <u>Rices Run Road</u>	
Quadrangle: <u>Camden WV 7.5's</u>	Generally used farm name: <u>Winans Farm</u>	
Watershed: <u>Middle West Fork Creek</u>		

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

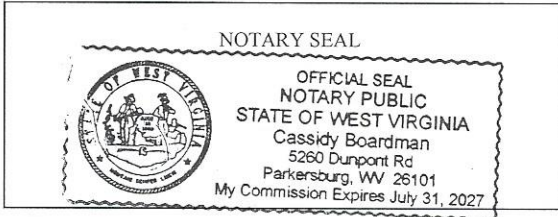
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

09/29/2023

Certification of Notice is hereby given:

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

Well Operator:	<u>HG II Appalachia, LLC</u>	Address:	<u>5260 Dupont Road</u>
By:	<u>Diane White <i>Diane White</i></u>		<u>Parkersburg, WV 26101</u>
Its:	<u>Agent</u>	Facsimile:	<u>304-863-3172</u>
Telephone:	<u>304-420-1119</u>	Email:	<u>dwhite@hgenergyllc.com</u>



Subscribed and sworn before me this 21st day of August, 2023.

Cassidy Boardman Notary Public

My Commission Expires 7/31/2027

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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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: 01/09/23 Date Permit Application Filed: 01/17/23

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

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

SURFACE OWNER(s)

Name: Stephen Brent Winans
Address: 354 Winans Road
Camden, WV 26338

Name: Gerald Phillip Hull
Address: 1765 Freemans Creek Road
Camden, WV 26338

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

Name: Chad and Tammy Herron
Address: 2266 Freemans Creek Road
Camden, WV 26338

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: NA
Address: _____

COAL OPERATOR

Name: NA
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: **See Above Surface Owners**
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: BHE - GT&S - Attn: Jamie Moore
Address: 925 White Oaks Blvd
Bridgeport, WV 26330

*Please attach additional forms if necessary

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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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WV Department of Environmental Protection

09/29/2023

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. Winans 12161 N1H - S12H
Well Pad Name: Winans 1216

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

Office of Oil and Gas

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WV Department of
Environmental Protection

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.**

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Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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API NO. 47-
OPERATOR WELL NO. Winans 12161 N1H-S10H
Well Pad Name: Winans 1216

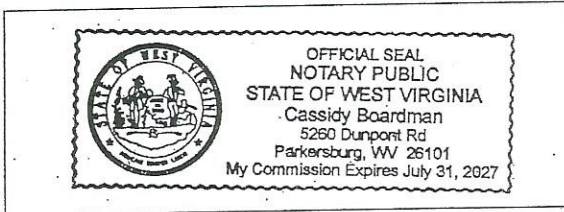
Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 6th day of January, 2023

Cassidy Boardman Notary Public

My Commission Expires 7/31/2027

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

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

Date of Notice: 12/20/2022 **Date of Planned Entry:** 12/27/2022

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Gerald Phillip Hull
Address: 1765 Freemans Creek Road
Camden, WV 26338

Name: Stephen Brent Winans
Address: 354 Winans Road
Camden, WV 26338

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: NA
Address: _____

MINERAL OWNER(s)

Name: ** See Attached List **
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>39.107632 & 80.569404</u>
County:	<u>Lewis</u>	Public Road Access:	<u>CR10 @ Freeman's Creek Road</u>
District:	<u>Freemans Creek</u>	Watershed:	<u>Fink Creek</u>
Quadrangle:	<u>Camden 7.5"</u>	Generally used farm name:	<u>Winans</u>

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

Notice is hereby given by:

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

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3172

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Oil and Gas Privacy Notice:

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

09/29/2023

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

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

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

Date of Notice: 08/07/2023 **Date Permit Application Filed:** 08/07/2023

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Stephen Brent Winans
Address: 354 Winans Road
Camden, WV 26338

Name: Gerald Phillip Hull
Address: 1765 Freemans Creek Road
Camden, WV 26338

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 537244.03
County: Lewis Northing: 4328771.40
District: Freemans Creek Public Road Access: CR10 @ Freeman's Creek Road
Quadrangle: Camden WV 7.5' Generally used farm name: Stephen B Winans
Watershed: Fink Creek

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This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: HG Energy II Appalachia, LLC
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-2172

Authorized Representative: Diane White
Address: 5260 Dupont Road
Parkersburg, WV 26101
Telephone: 304-420-1119
Email: dwhite@hgenergyllc.com
Facsimile: 304-863-2172

Oil and Gas Privacy Notice:

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

09/29/2023

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

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

Date of Notice: 08/10/2023 **Date Permit Application Filed:** 08/25/2023

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

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

Name: Gerald Phillip Hull Name: Stephen Brent Winans
Address: 1765 Freemans Creek Road Address: 354 Winans Road
Camden, WV 26338 Camden, WV 26338

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>537244.03</u>
County: <u>Lewis</u>	Northing: <u>4328771.40</u>
District: <u>Freemans Creek</u>	Public Road Access: <u>SR10 @ Freemans Creek Road</u>
Quadrangle: <u>Camden WV 7.5'</u>	Generally used farm name: <u>Stephen B Winans</u>
Watershed: <u>Fink Creek</u>	

This Notice Shall Include:

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

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

Address: 5260 Dupont Road
Parkersburg, WV 26101
Facsimile: 304-863-3172

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WV Department of
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Oil and Gas Privacy Notice:

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

09/29/2023



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

D. Alan Reed, P.E.
State Highway Engineer

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

November 18, 2022

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 1216 Pad, Lewis County
1216 S6H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #07-2022-0372 which has been issued to HG Energy II Appalachia, LLC for access to the State Road for a well site located off Lewis County Route 10 SLS MP 0.77.

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 Operations Engineer
Central Office O&G Coordinator

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WV Department of
Environmental Protection

Cc: Diane White
HG Energy II Appalachia, LLC
CH, OM, D-7
File

HG Energy II Appalachia, LLC
List of Frac Additives by Chemical Name and CAS #
Winans 1216 Well Pad (N-1H to S-12H)

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
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09/29/2023

OPERATOR: HG Energy II Appalachia, LLC WELL NO: Winans 1216 S-6H

PAD NAME: Winans 1216

REVIEWED BY: Diane White SIGNATURE: Diane White

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
 DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
 DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
 DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions

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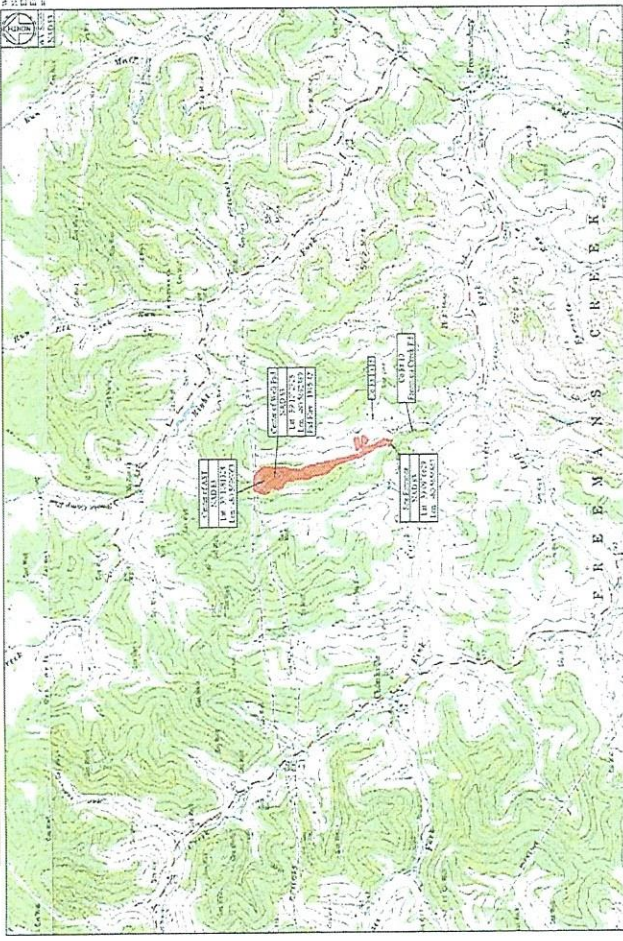
1216 Well Site
 Site Design, Construction Plan, &
 Erosion and Sediment Control Plans
 HG Energy LLC
 Lewis County
 Freemans Creek District
 Latitude 39.1072928°
 Longitude -80.5692389°
 Fink Creek / Freemans Creek Watershed

Pertinent Site Information
 1216 Well Site
 Emergency Number: 304-269-8243
 Freemans Creek District, Lewis County, WV
 Watershed: Fink Creek / Freemans Creek Watershed
 Site 911 Address:
 HG Energy Contact Number: 304-420-1100

Topographic Sheet Information - 1216 Well Site

Sheet	North	East	Scale
1	1000	1000	1:10,000
2	1000	2000	1:10,000
3	1000	3000	1:10,000
4	1000	4000	1:10,000
5	1000	5000	1:10,000
6	1000	6000	1:10,000
7	1000	7000	1:10,000
8	1000	8000	1:10,000
9	1000	9000	1:10,000
10	1000	10000	1:10,000

Exhibit A: Final Design: Issue for Permitting



Adjacent Road

Adjacent Road	Width	Surface	Notes
State Route 20	40' - 60'	Asphalt	County Road
Local Road	12' - 16'	Gravel	Private

Noted Area

Area	Notes
Well 1216	Proposed location
Well 1217	Proposed location

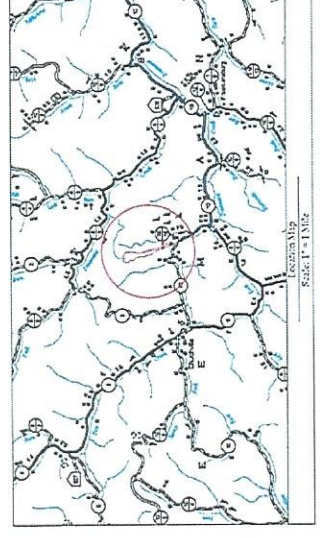
Watershed Overlay

Watershed	Code	Notes
Fink Creek Watershed	100	100
Freemans Creek Watershed	101	101



Site Location (NAD 23)

Property	Value
Latitude	39.1072928
Longitude	-80.5692389



Kenneth Greynolds
 Digitally signed by: Kenneth Greynolds
 DN: CN = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov C = AD
 O = WVDEP OU = Oil and Gas
 Date: 2023.08.17 10:03:12 -0400



Sheet

Sheet	Description
1	Cover Sheet
2	Site Plan
3	Site Erosion and Sediment Control Plan
4	Overall Site Plan
5	Site Plan
6	Site Plan
7	Site Plan
8	Site Plan
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 WV Department of Environmental Protection

Project Contacts

Company	Contact	Phone	Email
HG Energy LLC	Ken Greynolds	304-420-1100	kgreynolds@hgenergy.com
WVDEP	Ken Greynolds	304-269-8243	kgreynolds@wv.gov

09/29/2023

REC'D
 WVDEP
 AUG 28 2023
 WVDEP
 AUG 28 2023

811
 Call before you dig.
 1-800-4-A-DIG
 1-800-425-4747

1216 Well Site
 Freemans Creek District
 Lewis County, WV
 Date: 1/17/2023
 Scale: AS SHOWN
 Drawn by: JLS
 Checked by: JLS
 Project No: 2023-08-17-008312-0400

Sheet

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