

HG Energy II Appalachia, LLC  
Well No. Vaneck 1215 S-9H

Page 1 of 3

8,581' to Bottom Hole

1,998' to Top Hole

TOP LATITUDE 39 - 07 - 30  
BTM LATITUDE 39 - 05 - 00

TOP LONGITUDE 80 - 32 - 30  
BTM LONGITUDE 80 - 30 - 00

3,200' to Top Hole

3,778' to Bottom Hole

GRID NORTH

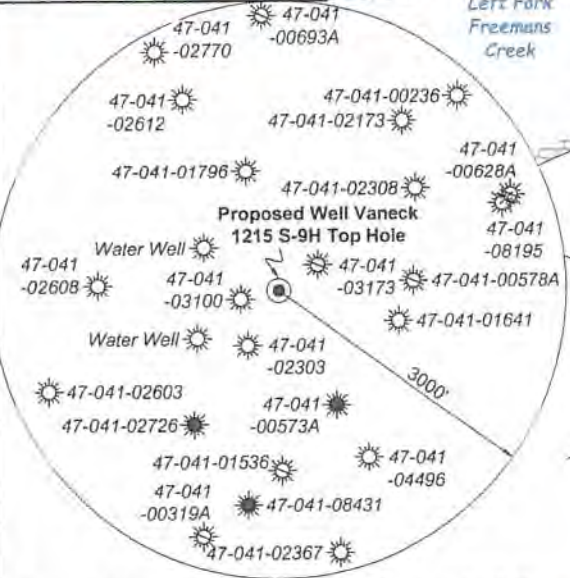


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Kevin S. James*  
Kevin S. James, P.S. 2305



SEAL



Note: 2 water well was 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.

FILE NO: 156-36-UFC-20  
DRAWING NO: Vaneck 1215 S-9H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: August 29 2022  
OPERATOR'S WELL NO. Vaneck 1215 S-9H  
API WELL NO. HGA  
47 - 041 - 05139  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II, Appalachia, LLC, et al  
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00

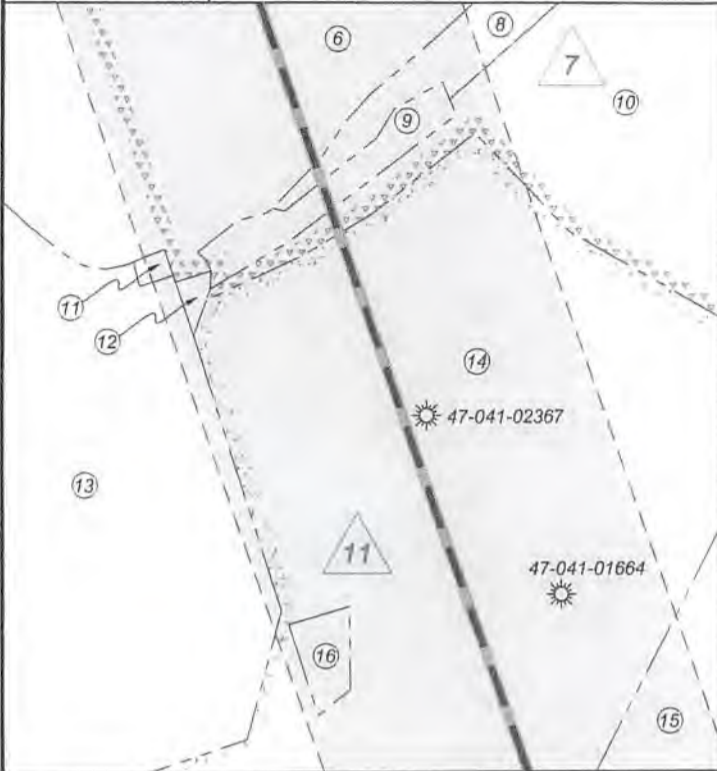
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6,790' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,832' MD

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

09/23/2022



Detail 2 (1"=500')

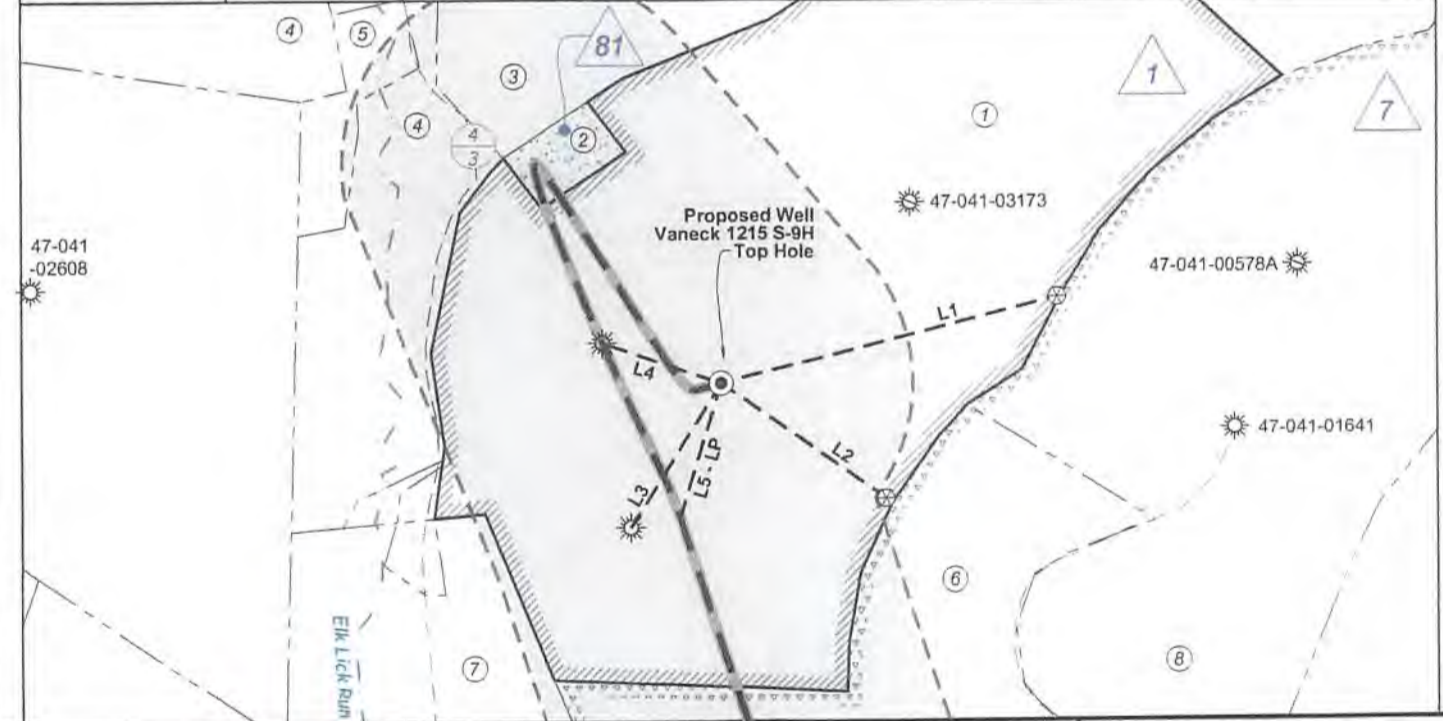


**Notes:**  
Well No. Vaneck 1215 S-9H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,205,286.52'  
E: 1,768,467.30'  
Landing Point Coordinates  
N: 14,204,934.91'  
E: 1,768,358.60'  
Deflection Point Coordinates  
N: 14,198,764.17'  
E: 1,770,394.30'  
Bottom Hole Coordinates  
N: 14,189,565.81'  
E: 1,773,789.46'

**Notes:** Well No. Vaneck 1215 S-9H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°06'58.36" Latitude: 39°04'22.65"  
Longitude: 80°32'55.35" Longitude: 80°31'48.84"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,329,779.990m N: 4,324,988.310m  
E: 539,029.910m E: 540,652.108m  
Plat orientation and corner and well references are  
based upon the grid north meridian. Well location  
references are based upon the magnetic meridian.

Tag	Bearing	Dist.	Description
L1	S 75°52' W	903.4'	1/2" Rebar
L2	N 54°41' W	525.3'	1/2" Rebar
L3	N 32°15' E	444.9'	47-041-02303
L4	S 71°11' E	327.6'	47-041-03100
L5	S 17°11' W	368.0'	Landing point

Detail 1 (1"=500')



FILE NO: 156-36-UFC-20  
DRAWING NO: Vaneck 1215 S-9H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

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

DATE: August 29 2022  
OPERATOR'S WELL NO. Vaneck 1215 S-9H  
API WELL NO. 146A  
47 - 041 - 05739  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden  
DISTRICT: Freemans Creek COUNTY: Lewis  
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.00  
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: \_\_\_\_\_ ACREAGE: 56.00  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 6,790' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,832' 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

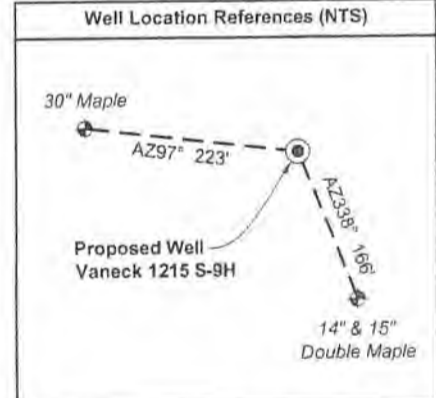
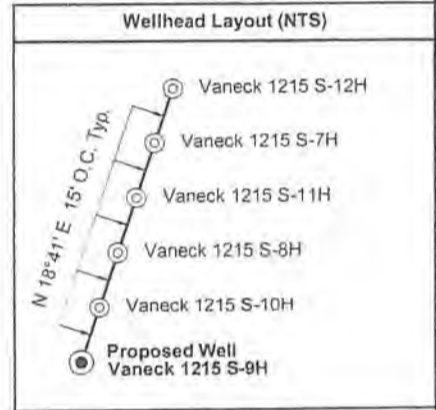
09/23/2022



ID	Lease
1	George W. Waggoner, et ux
7	F. White
11	Thornton Taylor, et al
13	Israel Simmons
30	Alfred Woofter, et ux
43	J.L.J. Bailey, et ux
81	P.W. Arbogast, et al

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	H.G. Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 28	Judith G. Piercy	F30 / 596	1.00
3	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
4	5C / 7	Charles B. Curtis, Jr.	W19 / 725	45.65
5	5C / 7.3	Dustin McDougal	746 / 65	2.05
6	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
7	5C / 12	Daniel L. & Rena M. Waggoner	733 / 664	14.50
8	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
9	5C / 27	Robert P. & Grace A. Waggoner	547 / 696	1.63
10	5C / 22.1	Janet L. & Joseph C. Waggoner, Sr.	705 / 183	57.53
11	5C / 24	Timothy S. & Karen J. Rittenhouse	481 / 611	0.14
12	5C / 23	Timothy S. & Karen J. Rittenhouse	481 / 611	0.25
13	5C / 17	Timothy S. & Karen J. Rittenhouse	481 / 611	84.75
14	5C / 19	Randal D. & Martika Mick	763 / 674	78.23
15	5C / 21	Billy E. Davisson	661 / 708	54.11
16	5C / 19.1	Randal D. Mick	763 / 464	1.00
17	5C / 21.2	Bobby D. & Alicia K. Lowther	627 / 241	0.92
18	5C / 19.2	Kevin L. & Regina L. Heckert	516 / 422	4.00
19	5D / 69	Smoke Camp Crafts, LLC	767 / 832	13.01
20	5D / 19	Smoke Camp Crafts, LLC	767 / 832	124.75
21	5D / 20	Randal S. Mick, et al	549 / 432	1.50
22	5D / 25	Dorothy M. Davis	Inv173 / 846	35.75
23	5D / 27	Bruce H. Garrett	W46 / 324	95.57
24	5D / 27.1	John T. Garrett	W46 / 324	80.00
25	5D / 26	Verna E. & Paul J. Heater, Jr.	561 / 371	34.80
26	5D / 26.4	Joseph W. & Shana J. Heater	570 / 559	2.00
27	5D / 26.1	Verna E. & Paul J. Heater, Jr.	368 / 290	0.90
28	5D / 34	Betty E. Rhoades	W35 / 524	16.90
29	5D / 26.3	Bernard L. & Charlotte I. Hicks	499 / 475	0.09
30	5D / 26.2	Bernard L. & Charlotte I. Hicks	497 / 662	0.84
31	5D / 12	Gerald P. Hull	W18 / 661	168.19
32	5D / 32	Bruce Garrett, et al	577 / 351	100.60
33	5D / 31	Edward E. Garrett	334 / 565	81.27
34	5D / 29	Edward E. Garrett	334 / 565	70.25
35	5E / 18	Carolyn L. Bennett	W47 / 358	32.34
36	5E / 18.1	Robert P. Snuffer	FR31 / 197	4.65
37	5E / 18.2	Robert P. Snuffer	FR31 / 197	49.16
38	5E / 17	Lee M. Marsh, et al	680 / 116	57.96
39	5E / 17.1	Alan C. Kemper	721 / 302	5.04
40	5E / 19.3	Alan C. Kemper	663 / 314	4.73
41	5E / 19	Charles A. Kemper	770 / 842	55.57
42	5E / 19.4	Alan C. Kemper	723 / 920	2.48
43	5E / 39	Ronald L. Cunningham, Jr. & Vicky A. Browning	426 / 546	34.09
44	5E / 20	Ronald L. Cunningham, Jr. & Vicky A. Browning	426 / 546	38.00

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.)
	Adjoiner surface tracts (approx.)



FILE NO: 156-36-UFC-20  
DRAWING NO: Vaneck 1215 S-9H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: August 29 2022  
OPERATOR'S WELL NO. Vaneck 1215 S-9H  
API WELL NO. H6A  
47 - 041 - 05739  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek

QUADRANGLE: Camden  
COUNTY: Logan  
ACREAGE: 55.00

DISTRICT: Freemans Creek  
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al

ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: \_\_\_\_\_ ACREAGE: 56.00

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 6,790' TVD

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,832' MD

WELL OPERATOR: HG Energy II Appalachia, LLC  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101



SUBJECT WELL  
Vaneck 1215 S-9H



◆ Denotes Possible Water Supply Source to be Tested

Section of  
Camden and Big Isaac  
7.5' Quadrangles

SCALE 1"=1000

09/23/2022