

HG Energy II Appalachia, LLC
Well No. Vaneck 1215 S-7H

Page 1 of 3

423' to Bottom Hole
1,978' to Top Hole

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

Bottom Hole
7.5' Spot

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

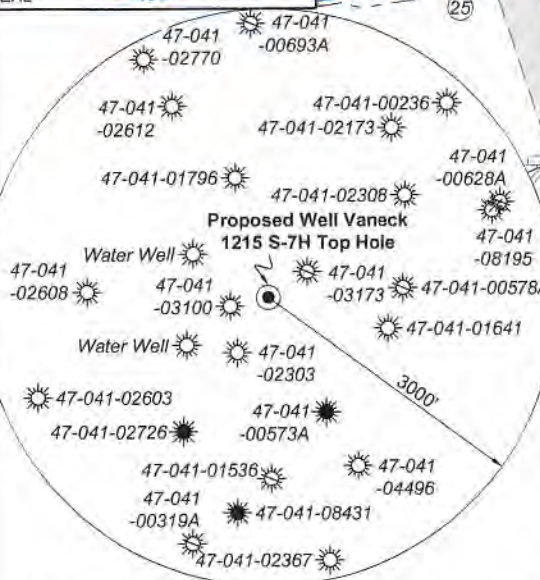
3,143' to Top Hole

831' to Bottom Hole



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

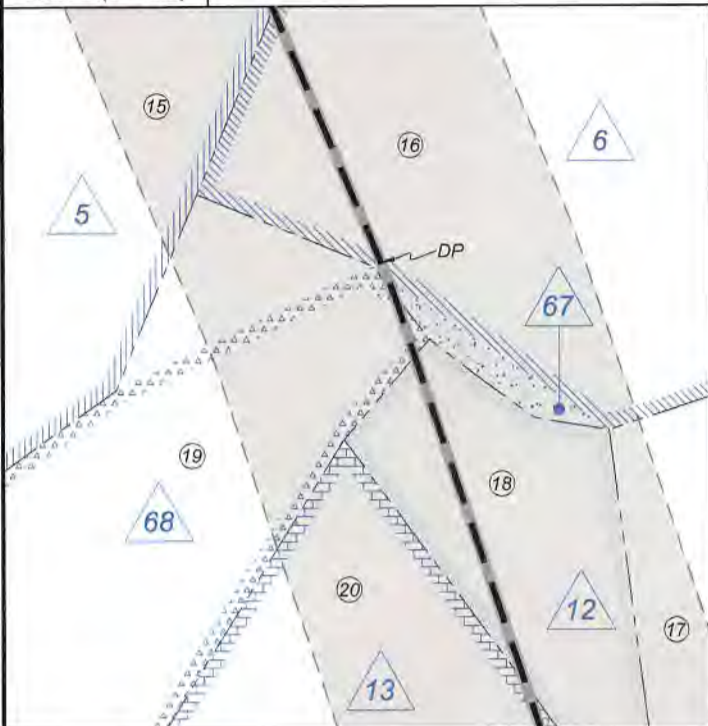


Note: 2 water well was found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

FILE NO: 156-36-UFC-20	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE: July 28 2022
DRAWING NO: Vaneck 1215 S-7H Well Plat		OPERATOR'S WELL NO. Vaneck 1215 S-7H
SCALE: 1" = 2000'		API WELL NO
MINIMUM DEGREE OF ACCURACY: Submeter		47 - 041 - 05742
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV		STATE COUNTY PERMIT
WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW		
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek		QUADRANGLE: Camden
DISTRICT: Freemans Creek		COUNTY: Lea 09/23/2022
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al		ACREAGE: 55.00
ROYALTY OWNER: George W. Waggoner, et ux, et al		ACREAGE: 56.00
PROPOSED WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input checked="" type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 6,790' TVD		
<input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 20,915' 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



Detail 2 (1"=500')

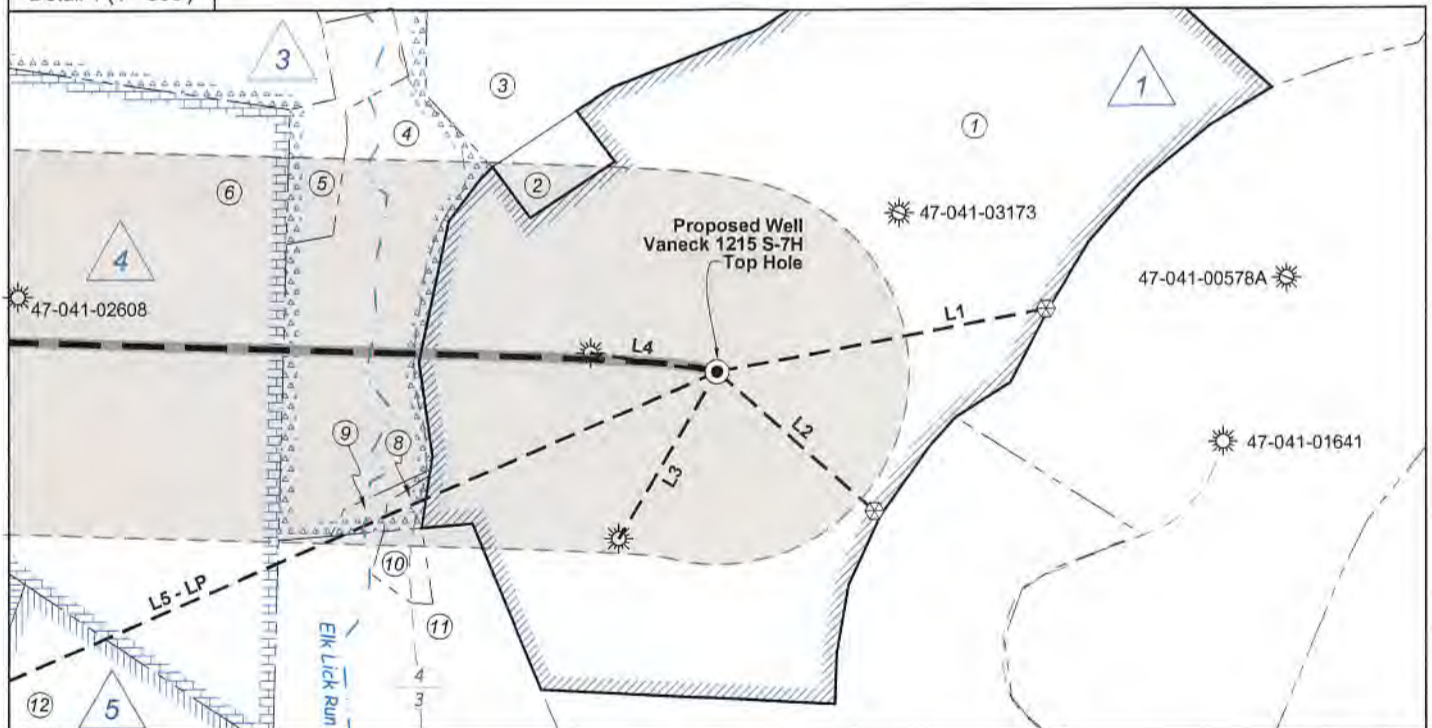


Notes: Well No. Vaneck 1215 S-7H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Latitude: 39°06'58.92" Longitude: 80°32'55.11" UTM Zone 17, NAD 1983
Bottom Hole coordinates Latitude: 39°04'51.79" Longitude: 80°32'35.37" UTM Zone 17, NAD 1983
Top Hole Coordinates N: 4,329,797.315m E: 539,035.768m
Bottom Hole Coordinates N: 4,325,880.712m E: 539,529.547m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes:
Well No. Vaneck 1215 S-7H
UTM NAD 1983 (USSF)
Top Hole Coordinates N: 14,205,343.36' E: 1,768,486.51'
Landing Point Coordinates N: 14,204,246.02' E: 1,765,959.61'
Deflection Point Coordinates N: 14,201,959.54' E: 1,766,925.47'
Bottom Hole Coordinates N: 14,192,493.64' E: 1,770,106.52'

Tag	Bearing	Dist.	Description
L1	S 79°11' W	872.3'	1/2" Rebar
L2	N 48°39' W	545.5'	1/2" Rebar
L3	N 30°39' E	503.4'	47-041-02303
L4	S 81°34' E	332.9'	47-041-03100
L5	S 66°32' W	2,754.9'	Landing point

Detail 1 (1"=500')



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Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: July 28 2022
OPERATOR'S WELL NO. Vaneck 1215 S-7H
API WELL NO
47 - 041 - 05742
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: Leaswell
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)

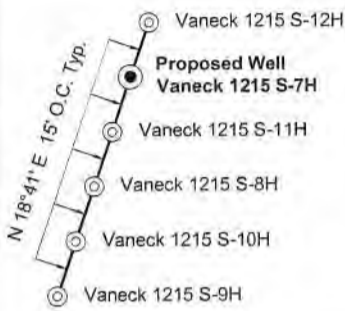
PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,790' TVD 20,915' MD

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ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White
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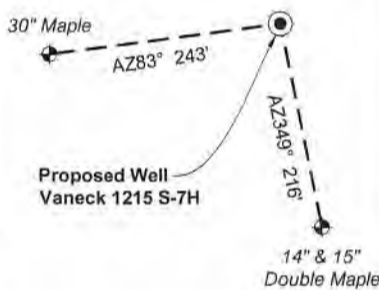


Wellhead Layout (NTS)



ID	Lease
1	George W. Waggoner, et ux
3	T.J. Halterman, et ux
4	George W. Waggoner, et ux
5	J.B. Halterman, et ux
6	E.W. Waggoner, et al
12	E.R. Gum, et al
13	Israel Simmons
31	Georgia E. Hall, et al
65	William R. Burnside, et ux
66	M.J. Burnside, et ux
67	E.B. Burnside, et ux
68	E.R. Gum, et al

Well Location References (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.)
- Adjoiner surface tracts (approx.)

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 / 8	Daniel L. & Rena M. Waggoner	733 / 664	49.75
7	5C / 10	Stephen & Sherry Marsh	631 / 742	55.69
8	5C / 11	Gary P. Stalnaker	519 / 599	0.24
9	5C / 7.1	Gary P. Stalnaker	519 / 599	0.35
10	5C / 12.1	Karen J. & Timothy S. Rittenhouse	753 / 130	0.48
11	5C / 12	Daniel L. & Rena M. Waggoner	733 / 664	14.50
12	5C / 10.1	Michael L. McLaughlin	365 / 572	13.06
13	5C / 10.2	Robert E. & Pamela L. Thompson	346 / 379	19.94
14	5C / 15	Robert E. & Pamela L. Thompson	519 / 627	60.82
15	5C / 16	Robert E. & Pamela L. Thompson	346 / 379	50.00
16	5C / 17	Karen J. & Timothy S. Rittenhouse	481 / 611	84.75
17	5C / 19	Randal D. & Martika Mick, et al	763 / 674	78.23
18	5C / 18	Kevin L. Heckert, et al	670 / 370	26.00
19	4C / 31	Gerald P. Hull	W18 / 661	199.25
20	5D / 17	Bruce & Elizabeth C. Garrett	584 / 684	139.09
21	5D / 16	Bruce H. Garrett	W46 / 324	19.50
22	5D / 27	Bruce H. Garrett	W46 / 324	95.57
23	5D / 15	Bruce H. Garrett	W46 / 324	56.76
24	5D / 27.1	John T. Garrett	W46 / 324	80.00
25	5D / 12	Gerald P. Hull	W18 / 661	168.19
26	5D / 12.1	Rachel D. Leaseburg	721 / 107	7.60
27	5D / 12.2	Matthew L. Rinehart	762 / 881	1.00
28	5D / 28	Sue E. Hall & Daniel E. Fisher	W34 / 597	148.50
29	5E / 2	Charles E. White, et al	725 / 344	102.90
30	5E / 17	Lee M. Marsh, et al	680 / 116	57.96
31	5D / 67	Smoke Camp Crafts LLC	767 / 832	11.96

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Parkersburg, WV 26101 Parkersburg, WV 26101

SUBJECT WELL
Vaneck 1215 S-7H



Denotes Possible Water Supply Source to be Tested

Section of Camden and Big Isaac 7.5' Quadrangles
09/23/2022
SCALE 1"=1000'