

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

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-8H 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

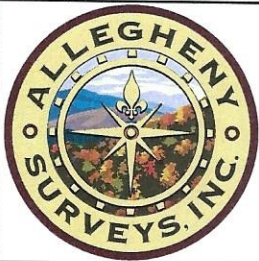
DATE: February 9 2023  
 OPERATOR'S WELL NO. Vaneck 1215 S-8H  
 API WELL NO  
 47 - 041 - 05737  
 STATE COUNTY PERMIT

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) BH-MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,040' TVD 28,993' MD

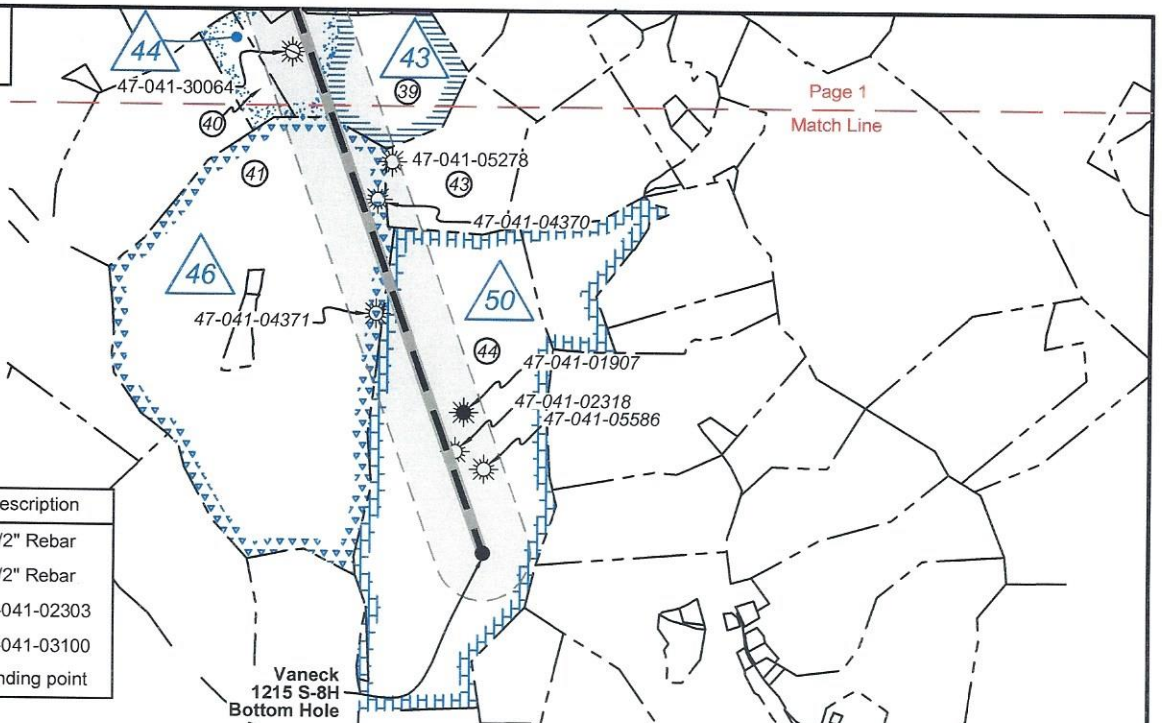
WELL OPERATOR: HG Energy II Appalachia, LLC  
 ADDRESS: 5260 Dupont Road Parkersburg, WV 26101  
 DESIGNATED AGENT: Diane C. White  
 ADDRESS: 5260 Dupont Road Parkersburg, WV 26101

HG Energy II Appalachia, LLC  
Well No. Vaneck 1215 S-8H MOD



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Page 1  
Match Line

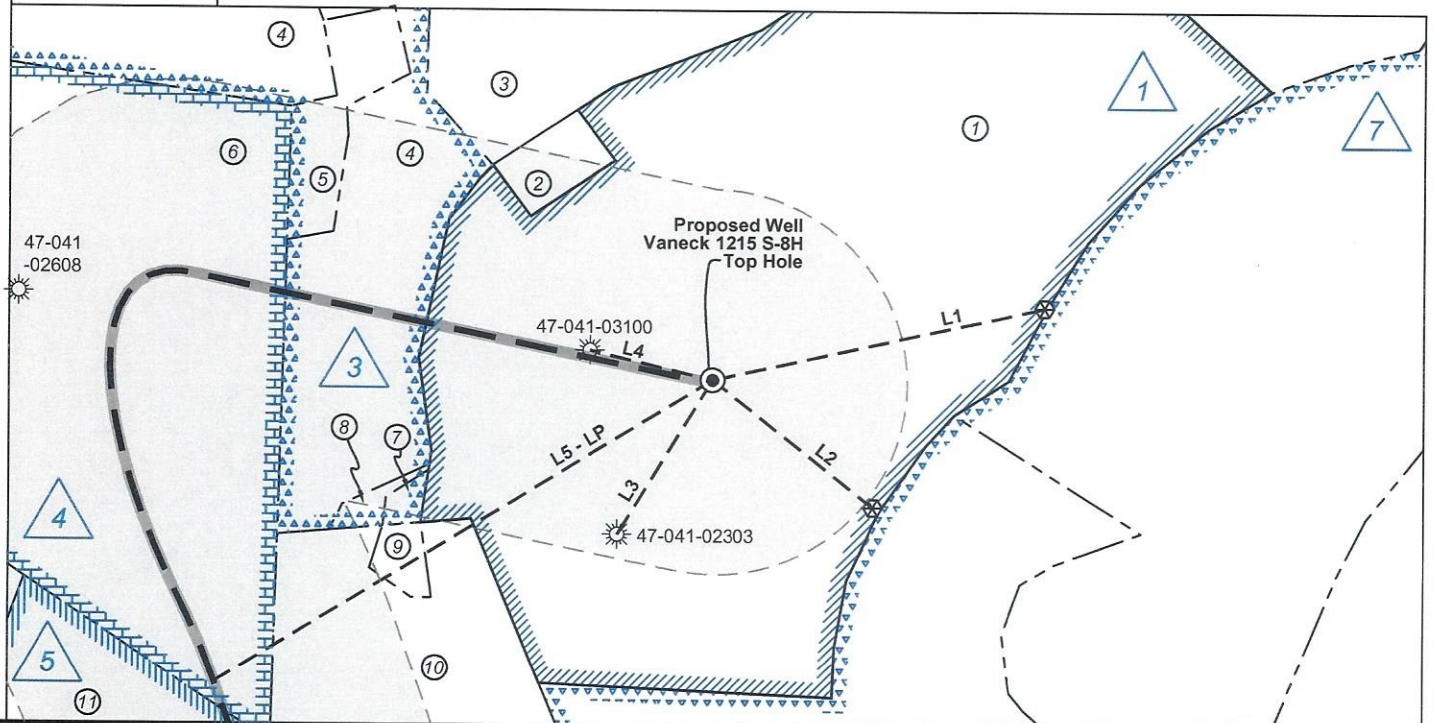


| Tag | Bearing    | Dist.    | Description   |
|-----|------------|----------|---------------|
| L1  | S 77°29' W | 887.5'   | 1/2" Rebar    |
| L2  | N 51°37' W | 534.7'   | 1/2" Rebar    |
| L3  | N 31°24' E | 474.1'   | 47-041-02303  |
| L4  | S 76°25' E | 328.9'   | 47-041-03100  |
| L5  | S 58°27' W | 1,522.4' | Landing point |

**Notes:** Well No. Vaneck 1215 S-8H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°06'58.64" Latitude: 39°03'35.43"  
Longitude: 80°32'55.23" Longitude: 80°31'44.58"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,329,788.653m N: 4,323,533.288m  
E: 539,032.840m E: 540,762.014m  
Plat orientation and corner and well references are  
based upon the grid north meridian. Well location  
references are based upon the magnetic meridian.

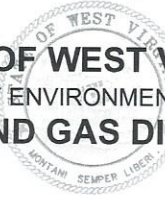
**Notes:**  
Well No. Vaneck 1215 S-8H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,205,314.94'  
E: 1,768,476.91'  
Landing Point Coordinates  
N: 14,204,518.28'  
E: 1,767,179.56'  
Bottom Hole Coordinates  
N: 14,184,792.13'  
E: 1,774,150.04'

Detail 1 (1"=500')



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DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**



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(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

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

QUADRANGLE: Camden

DISTRICT: Freemans Creek

COUNTY: Putnam

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

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PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,993' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

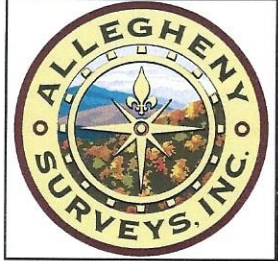
ADDRESS: 5260 Dupont Road

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05/05/2023

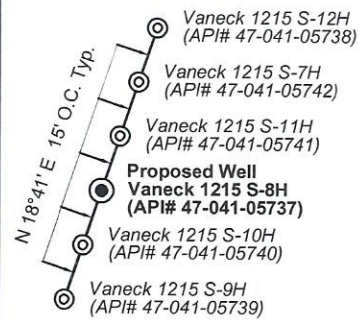


| ID | Lease                          |
|----|--------------------------------|
| 1  | George W. Waggoner, et ux      |
| 3  | T.J. Halterman, et ux          |
| 4  | George W. Waggoner, et ux      |
| 5  | J.B. Halterman, et ux          |
| 6  | E.W. Waggoner, et al           |
| 7  | F. White                       |
| 11 | Thornton T. Taylor, et al      |
| 13 | Israel Simmons                 |
| 30 | Alfred Woofter, et ux          |
| 31 | Georgia E. Hall, et vir, et al |
| 41 | Carter J. Kemper, et ux, et al |
| 43 | J.L.J. Bailey, et ux           |
| 44 | B.M. Davison, et al            |
| 46 | M.L. & Cordelia Butcher        |
| 50 | Calvin Flesher, et ux          |

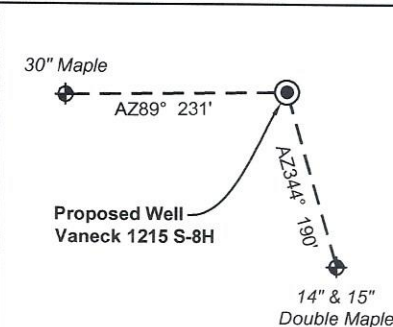
Legend

- 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.)

Wellhead Layout (NTS)



Well Location References (NTS)



| 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 / 11   | Gary P. Stalnaker                 | 519 / 599 | 0.24   |
| 8                               | 5C / 7.1  | Gary P. Stalnaker                 | 519 / 599 | 0.35   |
| 9                               | 5C / 12.1 | Karen J. & Timothy S. Rittenhouse | 753 / 130 | 0.48   |
| 10                              | 5C / 12   | Daniel L. & Rena M. Waggoner      | 733 / 664 | 14.50  |
| 11                              | 5C / 10.1 | Michael L. McLaughlin             | 365 / 572 | 13.06  |
| 12                              | 5C / 10   | Stephen & Sherry Marsh            | 631 / 742 | 55.69  |
| 13                              | 5C / 10.2 | Robert E. & Pamela L. Thompson    | 346 / 379 | 19.94  |
| 14                              | 5C / 17   | Karen J. & Timothy S. Rittenhouse | 481 / 611 | 84.75  |
| 15                              | 5C / 25   | Raymond C. & Colona J. Waggoner   | 567 / 416 | 45.48  |
| 16                              | 5C / 19   | Randal D. & Martika Mick          | 763 / 674 | 78.23  |
| 17                              | 5C / 19.3 | Roy D. & Debra D. Webb            | 582 / 127 | 1.27   |
| 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 / 67   | Smoke Camp Crafts, LLC            | 767 / 832 | 11.96  |
| 21                              | 5C / 18   | Kevin L. Heckert, et al           | 670 / 370 | 26.00  |
| 22                              | 5D / 17   | Bruce & Elizabeth C. Garrett      | 584 / 684 | 139.09 |
| 23                              | 5D / 19   | Smoke Camp Crafts, LLC            | 767 / 832 | 124.75 |
| 24                              | 5D / 18   | Smoke Camp Crafts, LLC            | 767 / 832 | 3.43   |
| 25                              | 5D / 16   | Bruce H. Garrett                  | W46 / 324 | 19.50  |
| 26                              | 5D / 27   | Bruce H. Garrett                  | W46 / 324 | 95.57  |
| 27                              | 5D / 27.1 | John T. Garrett                   | W46 / 324 | 80.00  |
| 28                              | 5D / 12   | Gerald P. Hull                    | W18 / 661 | 168.19 |
| 29                              | 5D / 12.3 | Jeffrey P. Hull                   | 722 / 836 | 1.39   |
| 30                              | 5D / 31   | Edward E. Garrett                 | 334 / 565 | 81.27  |
| 31                              | 5D / 28   | Sue E. Hall & Daniel E. Fisher    | W34 / 597 | 148.50 |
| 32                              | 5D / 29   | Edward E. Garrett                 | 334 / 565 | 70.25  |
| 33                              | 5E / 18   | Carolyn L. Bennett                | W47 / 358 | 32.34  |
| 34                              | 5E / 17   | Lee M. Marsh, et al               | 680 / 116 | 57.96  |
| 35                              | 5E / 16.1 | Ted T. Garrett                    | 591 / 747 | 1.93   |
| 36                              | 5E / 16   | John T. Garrett                   | W46 / 324 | 43.57  |
| 37                              | 5E / 19.2 | Charles A. Kemper                 | 580 / 628 | 6.99   |
| 38                              | 5E / 19.1 | Jared D. & Rebecca J. Flesher     | 753 / 905 | 2.23   |
| 39                              | 5E / 19   | Charles A. Kemper                 | 770 / 842 | 55.57  |
| 40                              | 5E / 15   | John R. & Anna M. Lamb            | 673 / 372 | 11.25  |
| 41                              | 5E / 24.2 | David & Elizabeth Nichols, et al  | 728 / 220 | 221.68 |
| 42                              | 5D / 12.2 | Matthew L. Rinehart               | 762 / 881 | 1.00   |
| 43                              | 5E / 20   | Ronald L. Cunningham, Jr, et al   | 426 / 546 | 38.00  |
| 44                              | 5E / 30   | Nancy E. & Ronald C. Smith, Jr.   | 599 / 759 | 195.24 |

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