

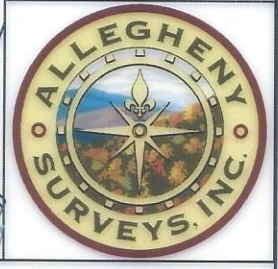
HG Energy II Appalachia, LLC
Well No. Vaneck 1215 S-7H MOD

9,068' to Bottom Hole
1,978' to Top Hole
TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 05 - 00

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

3,143' to Top Hole
9,999' 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.

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



- Proposed Well Vaneck 1215 S-7H Top Hole
- 47-041-02770
 - 47-041-02612
 - 47-041-01796
 - 47-041-02608
 - 47-041-01761
 - 47-041-02603
 - 47-041-02726
 - 47-041-01774
 - 47-041-02367
 - 47-041-00236
 - 47-041-02173
 - 47-041-02308
 - 47-041-030628
 - 47-041-03173
 - 47-041-01641
 - 47-041-02303
 - 47-041-30573
 - 47-041-04496
 - 47-041-30319
 - 47-041-02367
 - 47-041-04755
 - 47-041-30528
 - 47-041-30161
 - 47-041-02714
 - 47-041-00089

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-7H 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

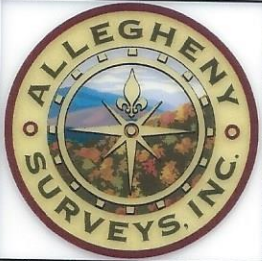
DATE: February 9 2023
OPERATOR'S WELL NO. Vaneck 1215 S-7H
API WELL NO
47 - 041 - 05742
STATE COUNTY PERMIT

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

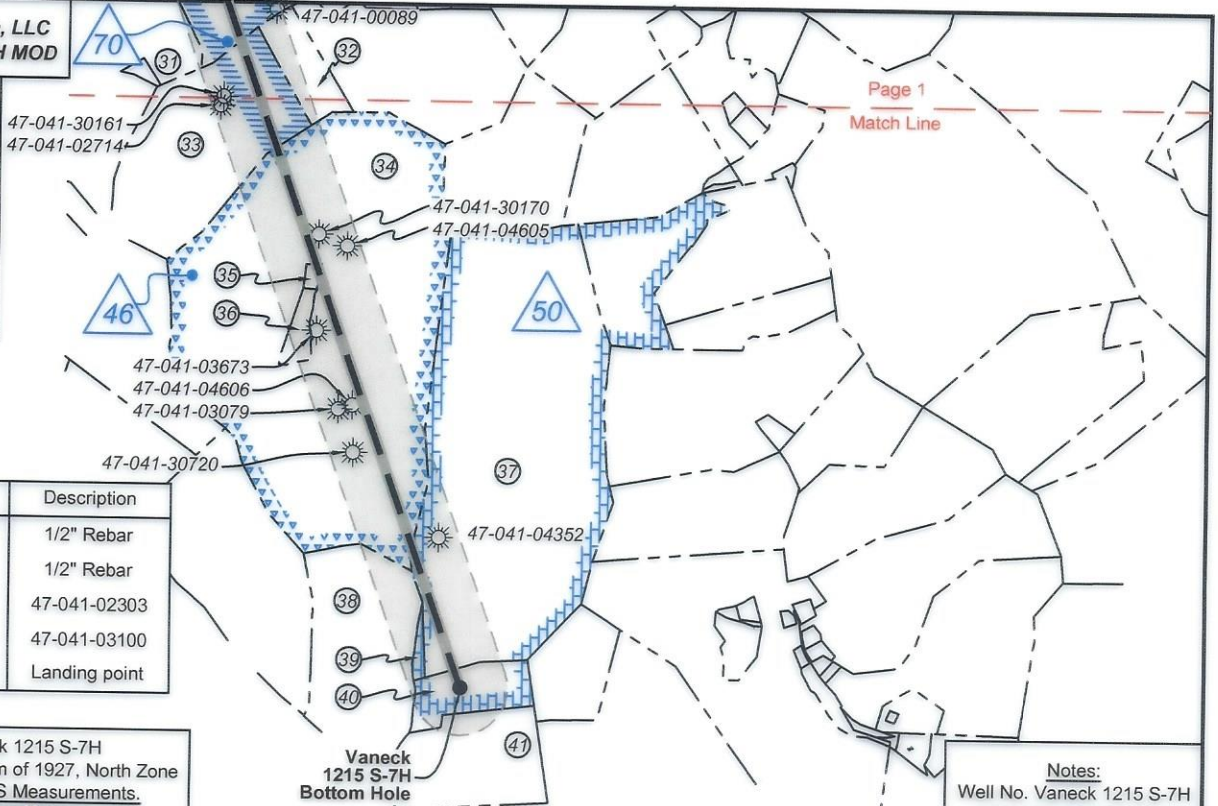
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: 05/05/2023
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.00
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 7,040' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 30,524' 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

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



Page 2 of 3

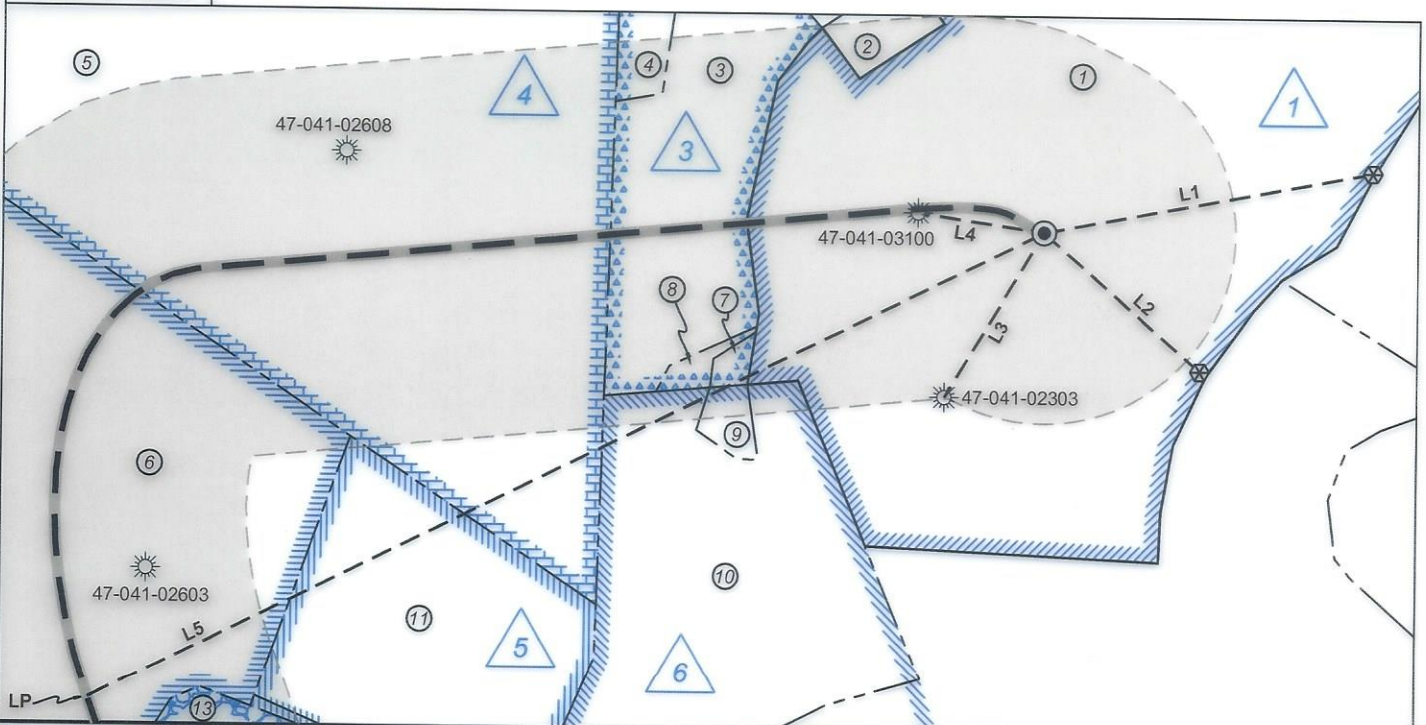


Tag	Bearing	Dist.	Description
L1	S 79°11' W	872.3'	1/2" Rebar
L2	N 48°39' W	545.5'	1/2" Rebar
L3	N 30°39' E	503.4'	47-041-02303
L4	S 81°34' E	332.9'	47-041-03100
L5	S 63°27' W	2,778.4'	Landing point

Notes: Well No. Vaneck 1215 S-7H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'58.92" Latitude: 39°03'21.14"
Longitude: 80°32'55.11" Longitude: 80°31'54.99"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,797.316m N: 4,323,091.404m
E: 539,035.766m E: 540,514.071m
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: 14,204,101.82'
E: 1,766,000.97'
Bottom Hole Coordinates
N: 14,183,342.38'
E: 1,773,336.58'

Detail 1 (1"=500')



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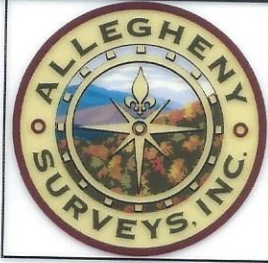
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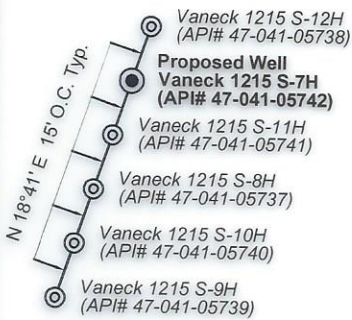
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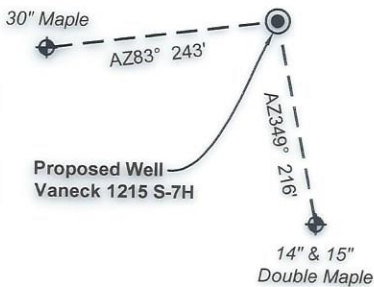


ID	Lease
1	George W. Waggoner, et ux
3	T.J. Halterman, et ux
4	George W. Waggoner, et ux
5	J.B. Halterman, et ux
6	E.W. Waggoner, et al
12	E.R. Gum, et ux, et al
13	Israel Simmons
31	Georgia E. Hall, et vir, et al
42	J.L.J. Bailey, et ux
46	M.L. & Cordelia Butcher
50	Calvin Flesher, et ux
65	William R. Burnside, et ux
66	M.J. Burnside, et ux
68	E.R. Gum, et ux, et al
69	G.L. White, et ux
70	Mark Bailey, et al
77	Carroll Grant Gum

Wellhead Layout (NTS)



Well Location References (NTS)

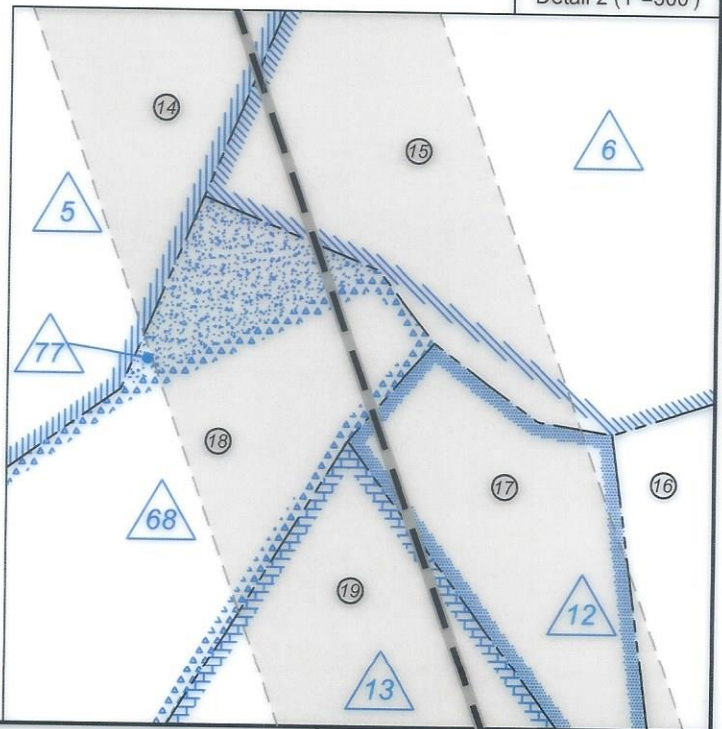


Legend

- 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 / 7	Charles B. Curtis, Jr.	W19 / 725	45.65
4	5C / 7.3	Dustin McDougal	746 / 65	2.05
5	5C / 8	Daniel L. & Rena M. Waggoner	733 / 664	49.75
6	5C / 10	Stephen & Sherry Marsh	631 / 742	55.69
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 / 10.2	Robert E. & Pamela L. Thompson	346 / 379	19.94
13	5C / 15	Robert E. & Pamela L. Thompson	519 / 627	60.82
14	5C / 16	Robert E. & Pamela L. Thompson	346 / 379	50.00
15	5C / 17	Karen J. & Timothy S. Rittenhouse	481 / 611	84.75
16	5C / 19	Randal D. & Martika Mick, et al	763 / 674	78.23
17	5C / 18	Kevin L. Heckert, et al	670 / 370	26.00
18	4C / 31	Gerald P. Hull	W18 / 661	199.25
19	5D / 17	Bruce & Elizabeth C. Garrett	584 / 684	139.09
20	5D / 16	Bruce H. Garrett	W46 / 324	19.50
21	5D / 27	Bruce H. Garrett	W46 / 324	95.57
22	5D / 15	Bruce H. Garrett	W46 / 324	56.76
23	5D / 27.1	John T. Garrett	W46 / 324	80.00
24	5D / 12	Gerald P. Hull	W18 / 661	168.19
25	5D / 12.1	Rachel D. Leaseburg	721 / 107	7.60
26	5D / 12.2	Matthew L. Rinehart	762 / 881	1.00
27	5D / 28	Sue E. Hall & Daniel E. Fisher	W34 / 597	148.50
28	5E / 2	Charles E. White, et al	725 / 344	102.90
29	5E / 17	Lee M. Marsh, et al	680 / 116	57.96
30	5E / 16	John T. Garrett	W46 / 324	43.57
31	5E / 14	John T. Garrett, et al	728 / 296	78.94
32	5E / 15	John R. & Anna M. Lamb	673 / 372	11.25
33	5E / 13	Charles A. Kemper	770 / 847	61.00
34	5E / 24.2	David W. Nichols, et al	728 / 220	221.68
35	5E / 24.1	Danny & Cindy Dever	W52 / 689	0.25
36	5E / 24	David W. Nichols, et al	728 / 220	3.80
37	5E / 30	Nancy E. & Ronald C. Smith, Jr.	599 / 759	195.24
38	5F / 54	Donna B. & John L. Jones, et al	613 / 803	54.25
39	5F / 35.1	Nancy E. & Ronald C. Smith, Jr.	599 / 759	1.76
40	5F / 35	Carol A. Goldsmith	726 / 299	15.40
41	5F / 44.6	David W. Nichols, et ux	505 / 353	34.82

Detail 2 (1"=500')



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