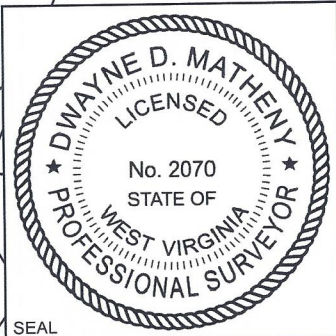


HG Energy II Appalachia, LLC
Well No. Vaneck 1215 N-2H MOD

Page 1 of 3

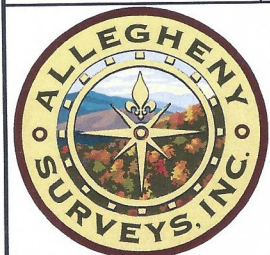
1,791' to Top Hole
TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 12 - 30

Top Hole 7.5' Spot
BTM LONGITUDE 80 - 32 - 30
TOP LONGITUDE 80 - 32 - 30
2,957' to Top Hole
14,388' to Bottom Hole



SEAL
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

Notes:
Well No. Vaneck 1215 N-2H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,530.24'
E: 1,768,672.73'
Landing Point Coordinates
N: 14,205,592.11'
E: 1,766,800.11'
Bottom Hole Coordinates
N: 14,224,398.62'
E: 1,760,154.60'



Notes: Well No. Vaneck 1215 N-2H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'00.76" Latitude: 39°10'07.73"
Longitude: 80°32'52.73" Longitude: 80°34'39.73"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,854.277m N: 4,335,605.371m
E: 539,092.526m E: 536,496.195m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

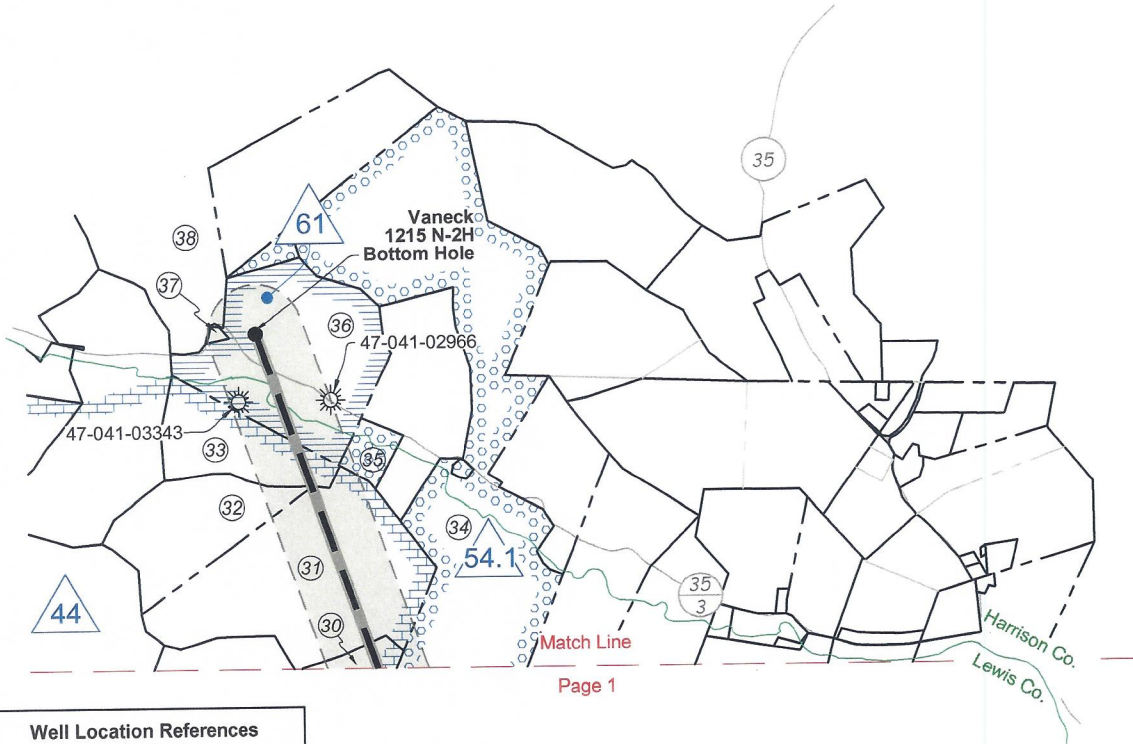
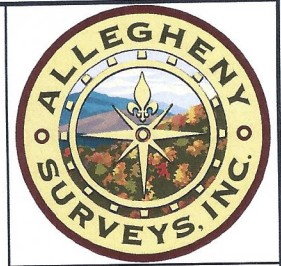
FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-2H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: April 19 2023
OPERATOR'S WELL NO. Vaneck 1215 N-2H
API WELL NO
47 - 041 - 05733
STATE COUNTY PERMIT

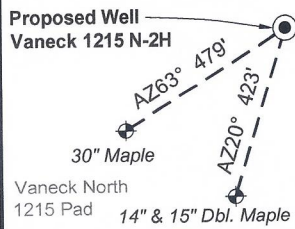
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) LP-MOD 7,087' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,996' 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



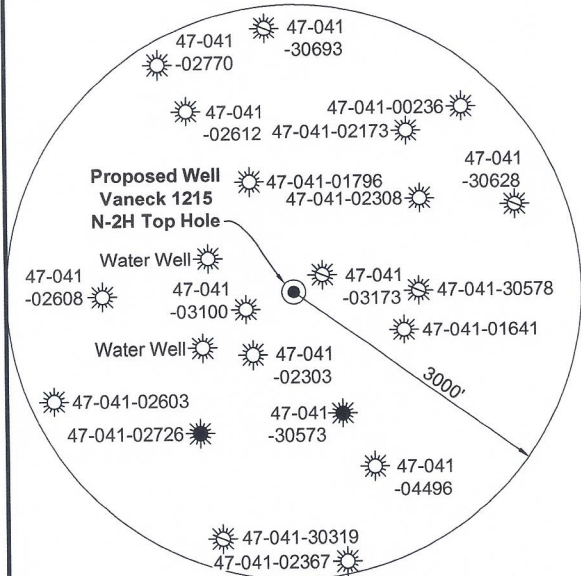
Page 1

**Well Location References
Not to Scale**



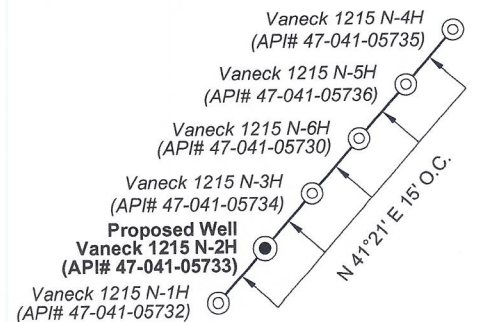
Tag	Bearing	Dist.	Description
L1	N 88°02' W	671.0'	1/2" Rebar
L2	N 22°11' W	591.1'	1/2" Rebar
L3	N 35°32' E	761.9'	47-041-02303
L4	N 75°01' E	533.7'	47-041-03100
L5	N 88°06' W	1,873.6'	Landing point

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.)
	Adjoinder surface tracts (approx.)



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.

Wellhead Layout (NTS)



FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-2H 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: April 19 2023
OPERATOR'S WELL NO. Vaneck 1215 N-2H
API WELL NO
47 - 041 - 05733
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

QUADRANGLE: Top - Camden
Btm - Big Isaac
COUNTY: Lewis
ACREAGE: 56.00

SURFACE OWNER: HG Energy II, Appalachia, LLC, et al
ROYALTY OWNER: George W. Waggoner, et ux, et al

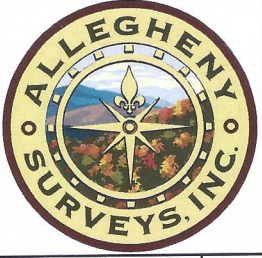
LEASE NO: ACREAGE: 56.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) LP-MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,087' TVD
27,996' 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

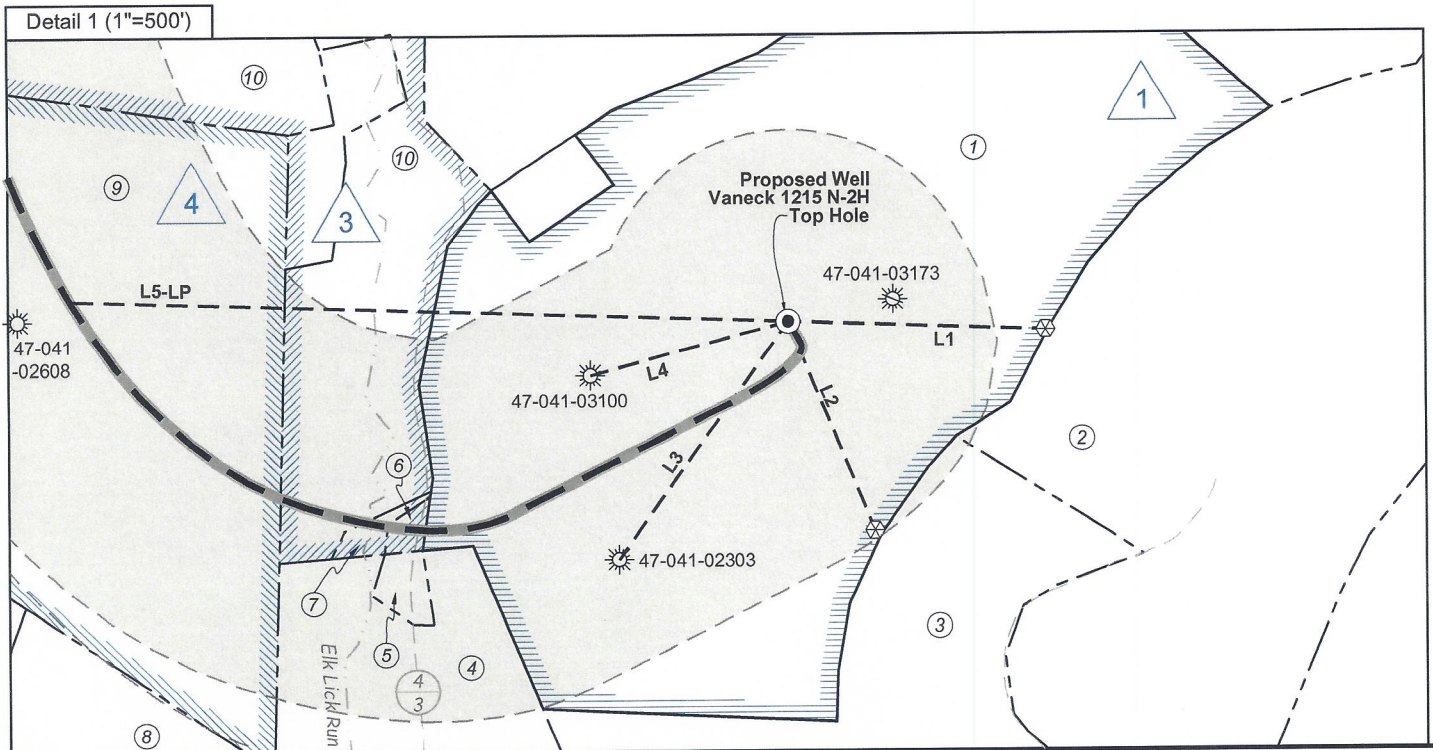
08/18/2023



ID	Lease
1	George W. Waggoner, et ux
3	T.J. Halterman, et ux
4	George W. Waggoner, et ux
19	Eliza L. Haney, et vir, et al
20	Francis M. McKinley, et ux
21	L.E. Gall, et ux
28	L.E. Gall, et ux, et al
29	J.R.H. Straley, et ux
30	W.S. Bennett, et ux
31	C.A. Coffindaffer
33	Mary F. Gaskins, et vir
42	Phillip E. Burnside, et al
43	Bennett Land Management, LLC, et al
44	W. Brent Maxwell, et al
47	Zella Curry, et vir, et al
54.1	Glen E. Kost, et al
61	James F. Balala, et ux
70	Avery F. Gaskins, et ux

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	HG Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
3	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
4	5C / 12	Daniel L. & Rena M. Waggoner	733 / 664	14.50
5	5C / 12.1	Karen J. & Timothy S. Rittenhouse	753 / 130	0.48
6	5C / 11	Gary P. Stalnaker	519 / 599	0.24
7	5C / 7.1	Gary P. Stalnaker	519 / 599	0.35
8	5C / 10.1	Michael L. McLaughlin	365 / 572	13.06
9	5C / 8	Daniel L. & Rena M. Waggoner	733 / 664	49.75
10	5C / 7	Charles B. Curtis, Jr.	W19 / 725	45.65
11	5C / 6	Jason E. & Amy L. Hunt	589 / 3	85.00
12	4C / 27	Jeremy & Rebecca Day	726 / 592	56.50
13	5B / 11	Betty E. Rhoades	W35 / 524	56.00
14	5B / 9	Robert A. & Jane M. Marrison	722 / 374	47.50
15	5B / 8	Robert A. & Jane M. Marrison	722 / 374	47.50
16	5B / 5	Gerold L. & Rita R. Kolva	639 / 517	100.33
17	4B / 40	Curtis G. Ferguson	552 / 449	121.21
18	5B / 4	Coastal Forest Resources Co.	710 / 471	85.00
19	4B / 39	Mike Ross Inc.	678 / 455	67.75
20	5B / 2	Coastal Forest Resources Co.	710 / 471	26.00
21	4B / 36	Jeffrey P. & Anessa E. Griffith	692 / 498	23.50
22	4B / 37	Allen Stewart	715 / 724	19.25
23	4B / 38	Christopher Dobbins	724 / 857	19.25
24	4B / 34	Rachel D. & Joshua M. Wyckoff	762 / 658	10.08
25	4B / 45	Rachel D. & Joshua M. Wyckoff	750 / 260	36.78
26	4A / 38	Rachel D. & Joshua M. Wyckoff	750 / 260	63.97
27	4A / 37	Rachel D. & Joshua M. Wyckoff	750 / 260	48.50
28	4A / 34	Jerry Tomes	W17 / 336	80.00
29	4A / 33	Kinchloe Mitigation Holdings, LLC	710 / 463	47.50
30	4A / 30	Kinchloe Mitigation Holdings, LLC	704 / 324	34.75
31	4A / 28	Kinchloe Mitigation Holdings, LLC	704 / 324	80.00
32	4A / 29	Kinchloe Mitigation Holdings, LLC	704 / 324	39.75
33	4A / 27	Kinchloe Mitigation Holdings, LLC	704 / 324	25.25

Harrison Co. - Union Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
34	421 / 8	Kinchloe Mitigation Holdings, LLC	1565 / 908	185.30
35	421 / 27	Kinchloe Mitigation Holdings, LLC	1565 / 908	6.10
36	421 / 5	Kinchloe Mitigation Holdings, LLC	1565 / 908	71.80
37	421 / 4	Kinchloe Mitigation Holdings, LLC	1565 / 908	0.57
38	421 / 3	Kinchloe Mitigation Holdings, LLC	1565 / 908	98.26



FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-2H 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: April 19 2023
OPERATOR'S WELL NO. Vaneck 1215 N-2H
API WELL NO
47 - 041 - 05733
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

Top - Camden
QUADRANGLE: Btm - Big Isaac
COUNTY: Wayne
ACREAGE: 55.00

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) LP-MOD 7,087' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,996' 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