

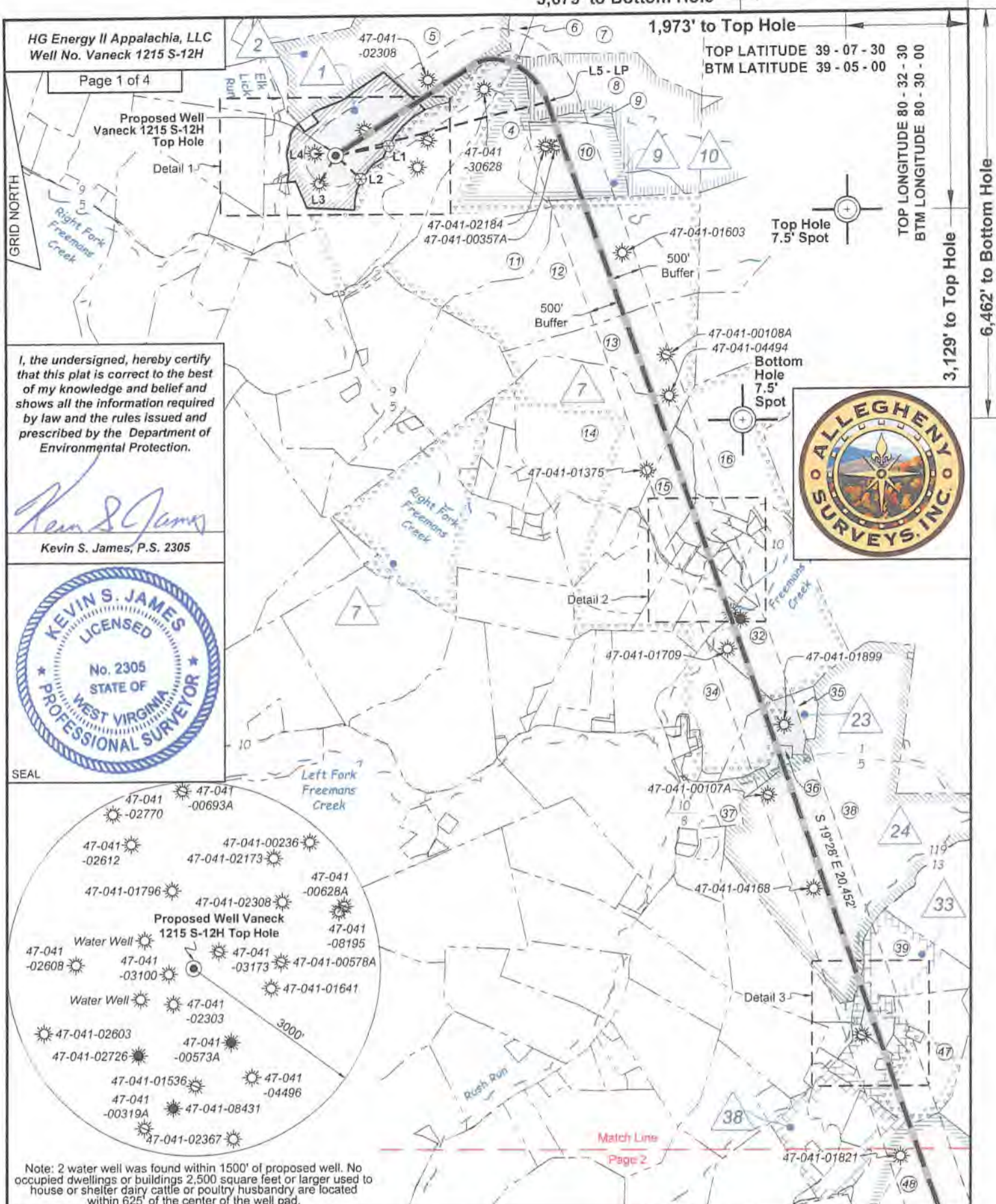
3,679' to Bottom Hole

1,973' to Top Hole

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

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

3,129' to Top Hole
6,462' to Bottom Hole



HG Energy II Appalachia, LLC
Well No. Vaneck 1215 S-12H

Page 1 of 4

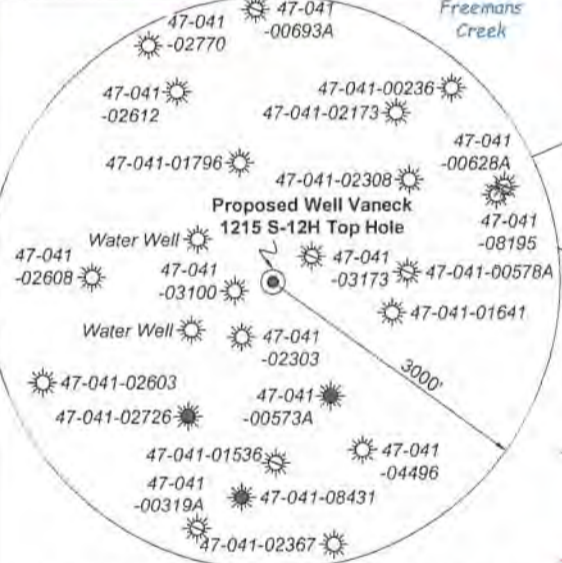
Proposed Well
Vaneck 1215 S-12H
Top Hole
Detail 1

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 for 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-12H Well Plat
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

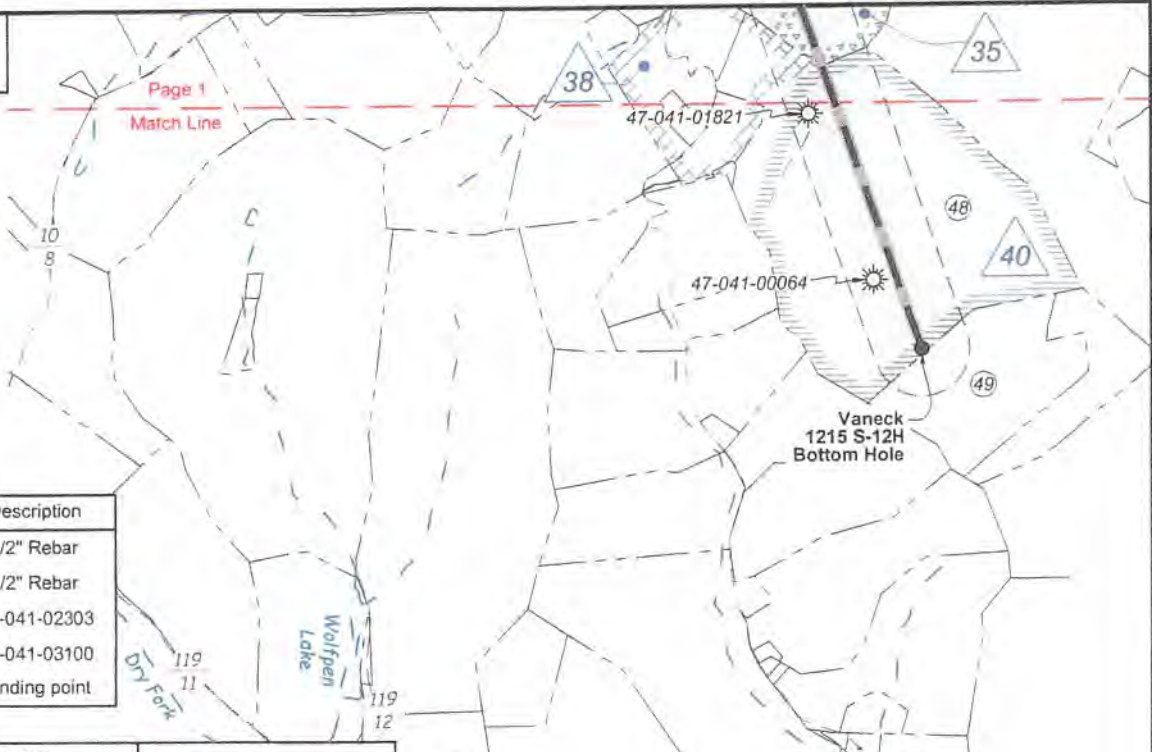
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: August 29 2022
 OPERATOR'S WELL NO. Vaneck 1215 S-12H
 API WELL NO
 47 - 041 - 05738
 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: Logan 09/23/2022
 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) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,790' TVD
 29,325' 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

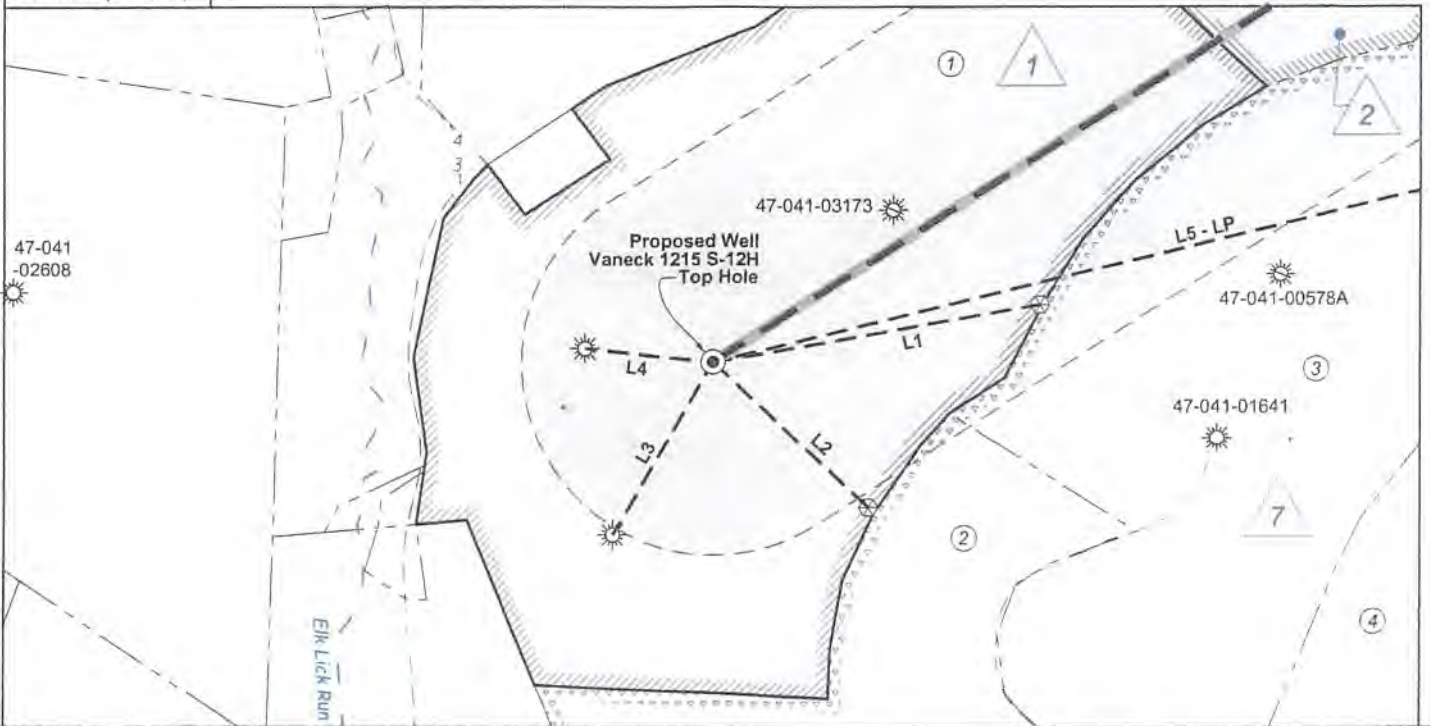


Tag	Bearing	Dist.	Description
L1	S 80°02' W	865.0'	1/2" Rebar
L2	N 47°12' W	551.5'	1/2" Rebar
L3	N 30°18' E	518.1'	47-041-02303
L4	S 84°05' E	335.9'	47-041-03100
L5	N 76°21' E	3,502.0'	Landing point

Notes: Well No. Vaneck 1215 S-12H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'59.06" Latitude: 39°03'56.11"
Longitude: 80°32'55.04" Longitude: 80°30'46.66"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,801.646m N: 4,324,178.176m
E: 539,037.232m E: 542,150.643m
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-12H
UTM NAD 1983 (USFS)
Top Hole Coordinates
N: 14,205,357.57'
E: 1,768,491.32'
Landing Point Coordinates
N: 14,206,184.31'
E: 1,771,894.34'
Bottom Hole Coordinates
N: 14,186,907.90'
E: 1,778,705.90'

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: August 29 2022
OPERATOR'S WELL NO. Vaneck 1215 S-12H
API WELL NO
47 - 041 - 65738
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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DISTRICT: Freemans Creek

QUADRANGLE: Camden
COUNTY: Logan
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

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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

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ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

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

SUBJECT WELL
Vaneck 1215 S-12H



◆ Denotes Possible Water Supply Source to be Tested

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