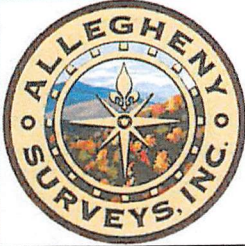


HG Energy II Appalachia, LLC  
Well No. Vaneck 1215 N-4H



Page 1 of 3

Notes:  
Well No. Vaneck 1215 N-4H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,205,575.26'  
E: 1,768,712.34'  
Landing Point Coordinates  
N: 14,206,199.23'  
E: 1,769,237.06'  
Bottom Hole Coordinates  
N: 14,217,176.32'  
E: 1,765,358.17'



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

Notes: Well No. Vaneck 1215 N-4H  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°07'01.21" Latitude: 39°08'56.08"  
Longitude: 80°32'52.23" Longitude: 80°33'34.08"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,329,868.000m N: 4,333,404.009m  
E: 539,104.600m E: 538,082.246m  
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

GRID NORTH

5,046' to Bottom Hole

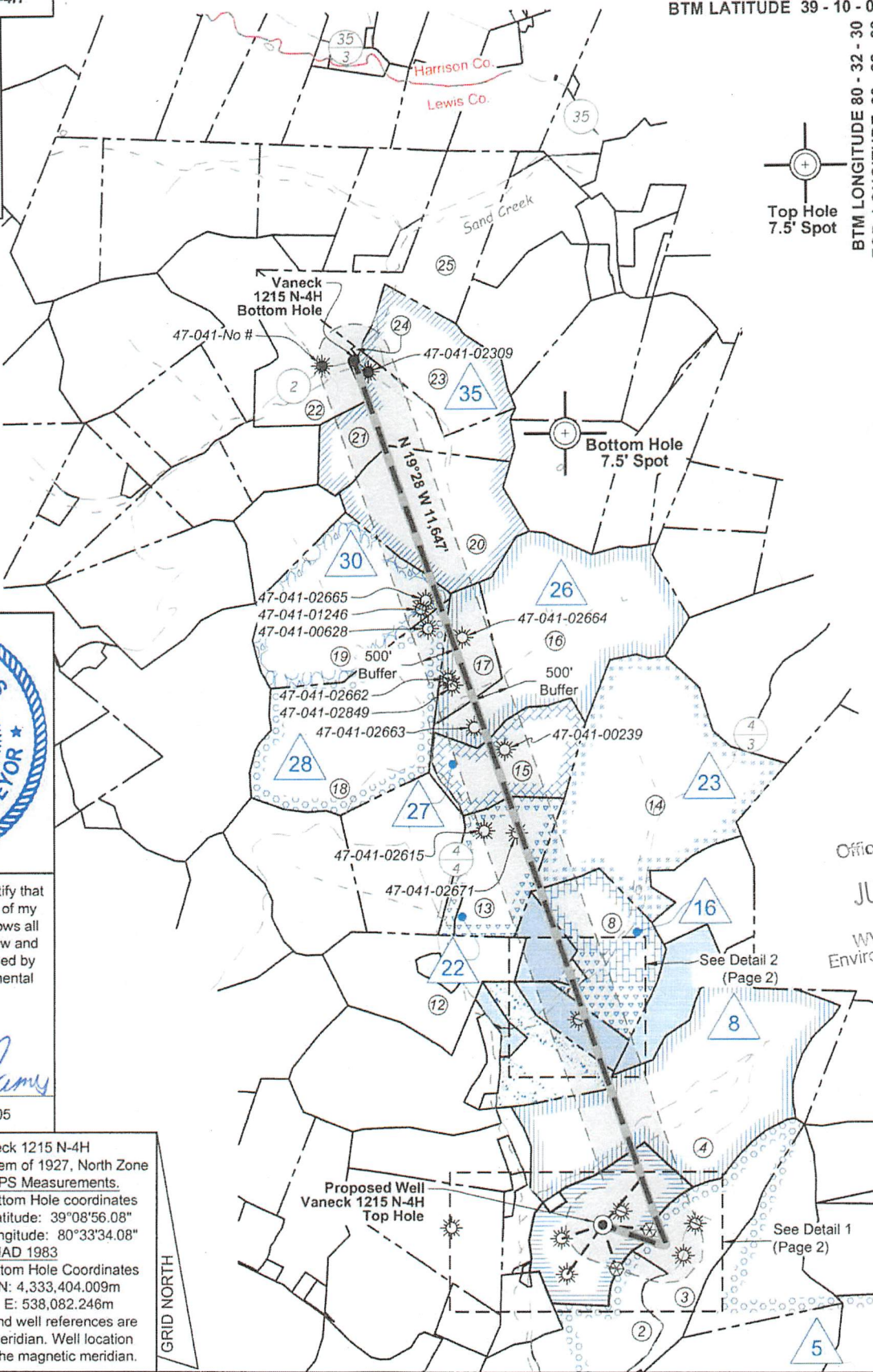
1,751' to Top Hole

TOP LATITUDE 39 - 07 - 30  
BTM LATITUDE 39 - 10 - 00

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



2,912' to Top Hole  
6,466' to Bottom Hole



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WV Department of Environmental Protection

See Detail 2 (Page 2)

See Detail 1 (Page 2)

FILE NO: 156-36-UFC-20  
DRAWING NO: Vaneck 1215 N-4H 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: June 24 2022  
OPERATOR'S WELL NO. Vaneck 1215 N-4H  
API WELL NO  
47 - 041 - 05735  
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)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,100' 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

08/19/2022

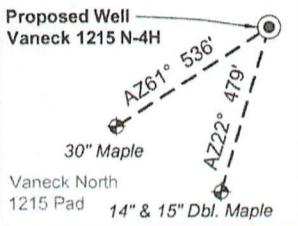


HG Energy II Appalachia, LLC  
Well No. Vaneck 1215 N-4H

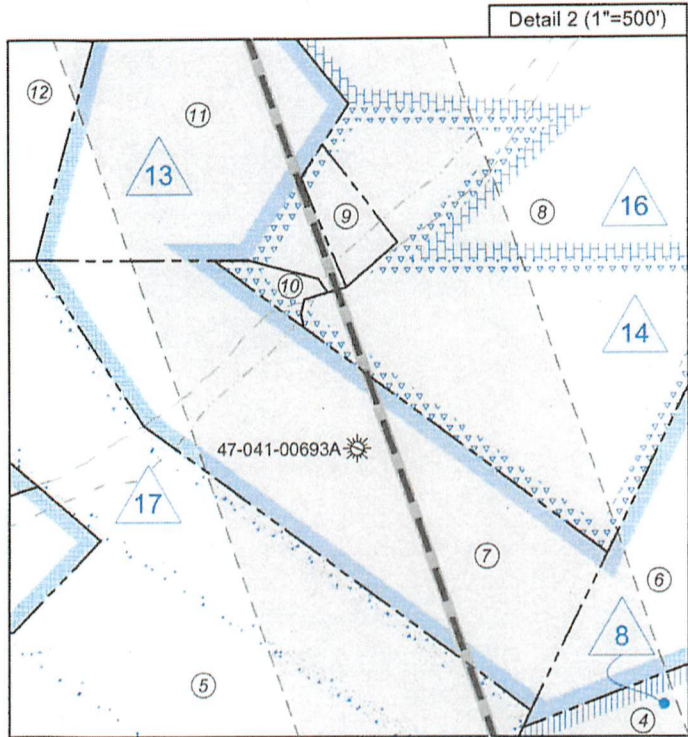


Page 2 of 3

Well Location References  
Not to Scale

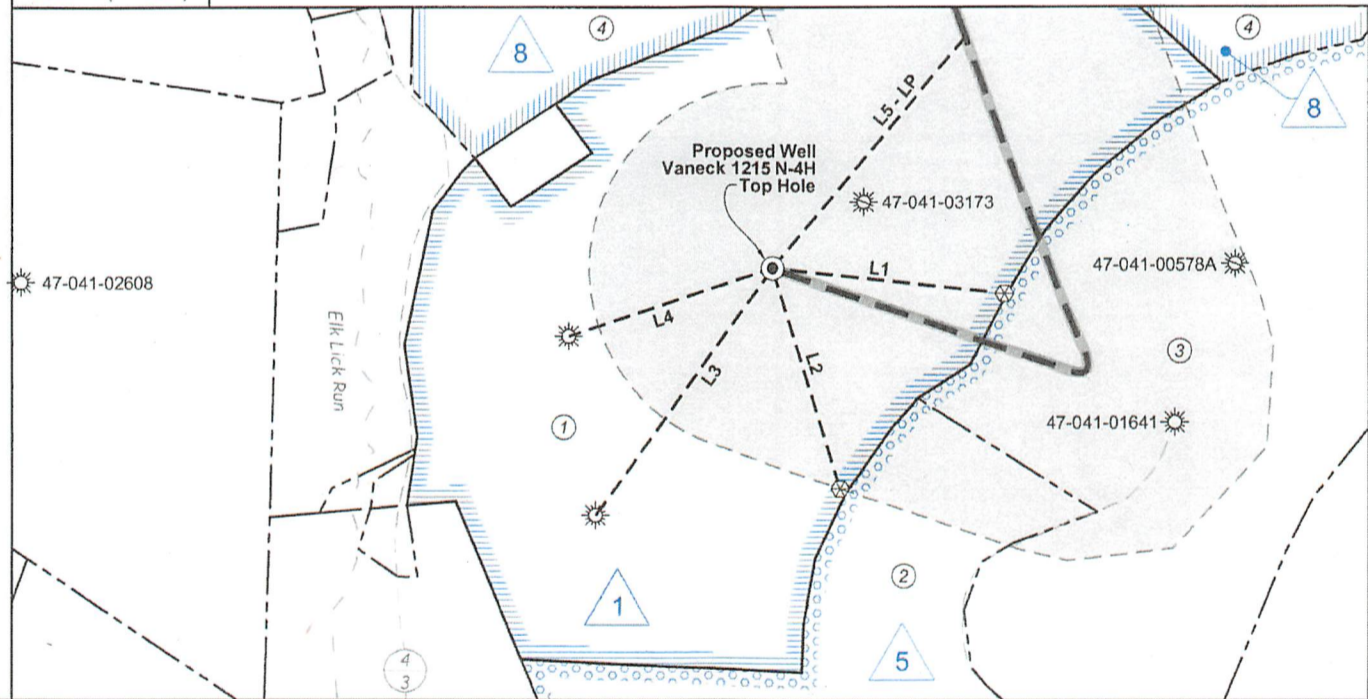


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Environmental Protection



Tag	Bearing	Dist.	Description
L1	N 83°50' W	634.6'	1/2" Rebar
L2	N 17°13' W	620.2'	1/2" Rebar
L3	N 35°58' E	821.6'	#47-041-02303
L4	N 71°45' E	584.5'	#47-041-03100
L5	N 40°04' E	815.3'	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

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API WELL NO  
47 - 041 - 05735  
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: Lewis

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

ACREAGE: 55.00

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

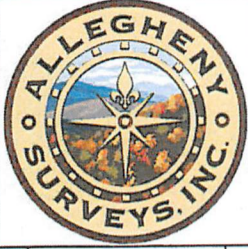
PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,100' MD 6,790' TVD

08/19/2022

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

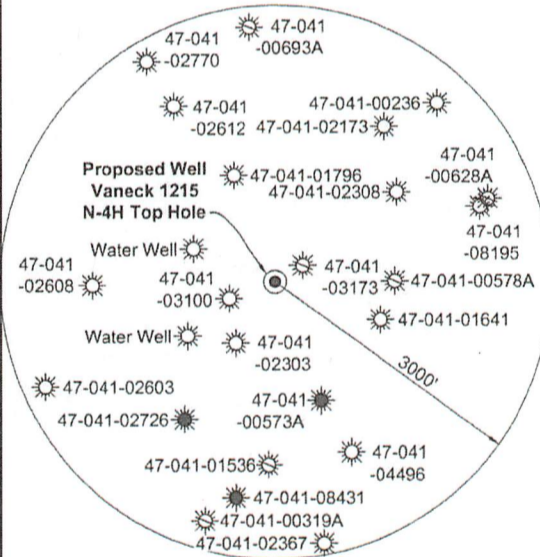




ID	Lease
1	George W. Waggoner, et ux
5	F. White
8	Fielding B. Riley, et al
13	South Penn Natural Gas Co., et al
14	W.W. Minter, et al
16	Caroline Minter
17	Jacob Minter, et ux
22	Geo C. Francis, et al
23	George I. Davison, et al
26	Francis M. McKinley, et ux
27	C. Francis, et al
28	L.E. Gall, et al
30	W.S. Bennett, et ux
35	J.S. Burnside, et ux

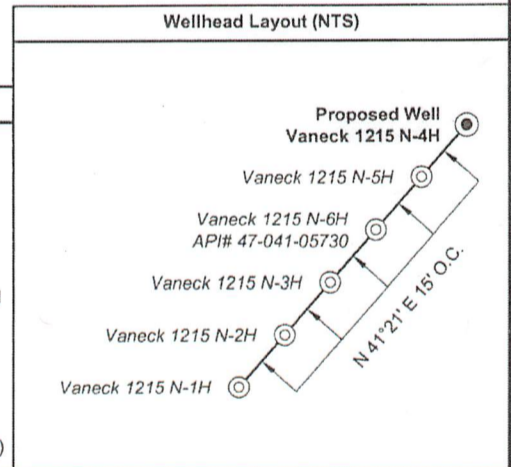
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JUL 14 2022  
WV Department of  
Environmental Protection

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 / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
3	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
4	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
5	5C / 3	Betty E. Rhoades	W35 / 524	33.60
6	5C / 55	Debra Burnside Garrett, et al	WB R / 525	25.00
7	5C / 52	Debra Burnside Garrett, et al	WB R / 525	16.50
8	5B / 15	Edward E. Garrett, et al	429 / 245	53.40
9	5C / 50	Edward E. Garrett, et al	429 / 245	1.00
10	5C / 1	Betty E. Rhoades	W35 / 524	0.50
11	5B / 42	Bruce Garrett, et al	PB 2 / 155	14.10
12	5B / 11	Betty E. Rhoades	W35 / 524	56.00
13	5B / 22	Christopher G. Duerr	594 / 666	34.50
14	5B / 21	Theodore J. & Jacqueline Riley	467 / 254	140.00
15	5B / 23	Christopher G. Duerr	594 / 666	40.00
16	5B / 25.1	Jeffrey P. & Anessa E. Griffith	745 / 338	118.29
17	5B / 25	Misty L. & Gerald Kolva, II	722 / 849	25.27
18	5B / 5	Gerald L. & Rita R. Kolva	639 / 517	100.33
19	5B / 4	Coastal Forest Resources Co.	710 / 471	85.00
20	5B / 3	Jeffrey P. & Anessa E. Griffith	653 / 168	74.00
21	5B / 1	Jeffrey P. & Anessa E. Griffith	692 / 498	49.25
22	5A / 4	Jeffrey P. & Anessa E. Griffith	692 / 498	44.00
23	5A / 5	Jeffrey P. & Anessa E. Griffith	653 / 165	51.25
24	5A / 3	Howard Walker, III	576 / 473	0.19
25	5A / 6	Jeffrey P. & Anessa E. Griffith	692 / 498	78.00



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.

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.)



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

DATE: June 24 2022  
OPERATOR'S WELL NO. Vaneck 1215 N-4H  
API WELL NO  
47 - 041 - 05735  
STATE COUNTY PERMIT

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

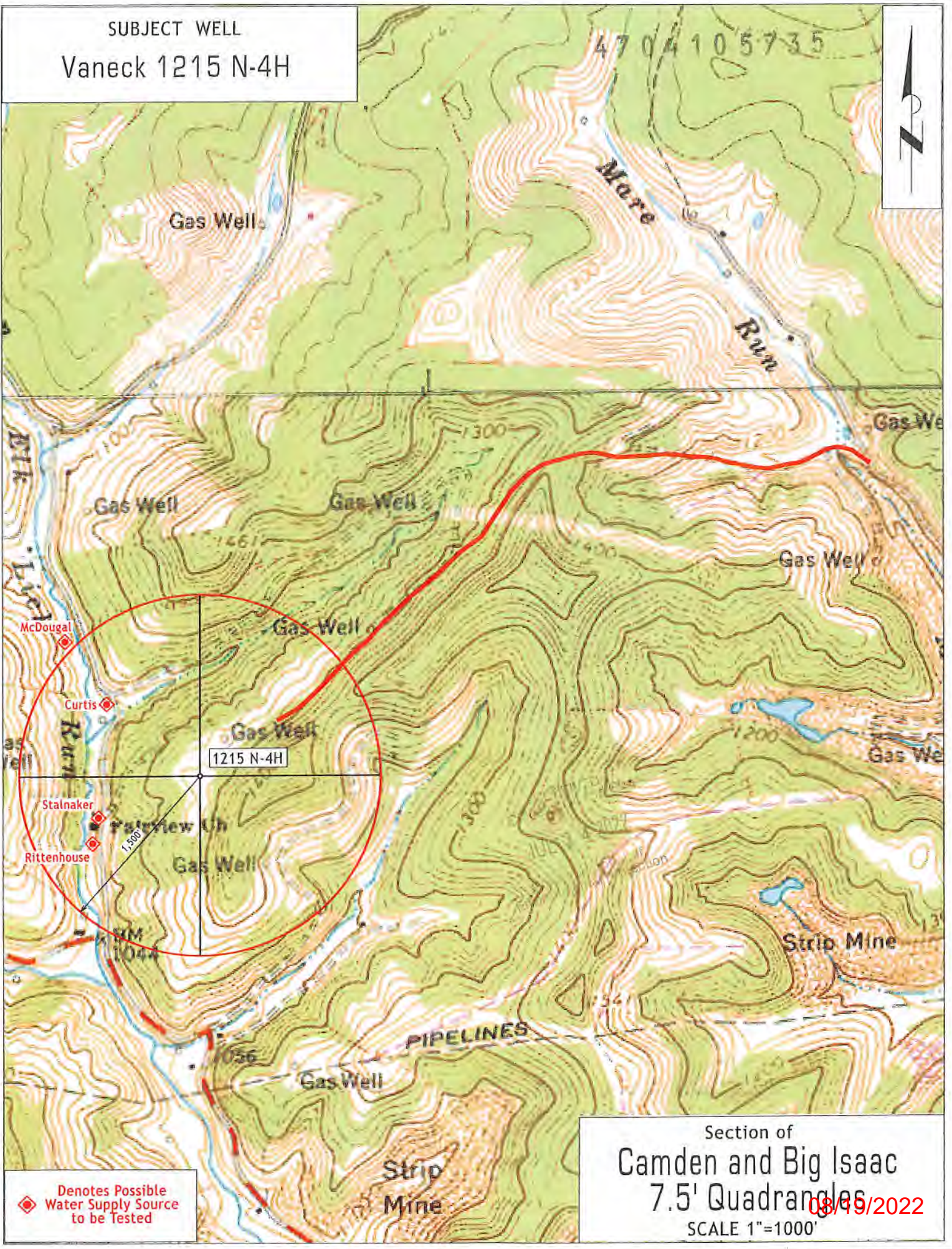
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Parkersburg, WV 26101 Parkersburg, WV 26101

08/19/2022



SUBJECT WELL  
Vaneck 1215 N-4H



◆ Denotes Possible Water Supply Source to be Tested

Section of  
Camden and Big Isaac  
7.5' Quadrangles  
08/19/2022  
SCALE 1"=1000'