

Antero Resources  
Well No. Vulcan 1H  
BHL MOD  
Antero Resources Corporation



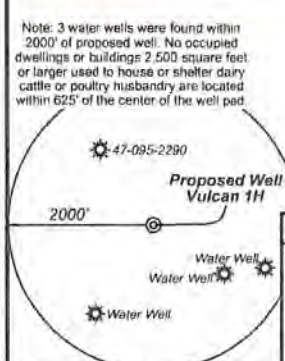
Wellhead Layout

Proposed	Vulcan Unit 1H	47-095-02701
	Vulcan Unit 2H	47-095-02702
	Prosper Unit 1H	47-095-02699
	Prosper Unit 2H	47-095-02700
	Friend Unit 1H	47-095-02695
	Friend Unit 2H	47-095-02696
	Seagrave Unit 1H	47-095-02697
	Seagrave Unit 2H	47-095-02698



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.

*Bradley D. Miller*  
Bradley D. Miller, P.S. 2167



Legend

	Proposed gas well
	Found corner, as noted
	Digitized Well, as noted
	Existing Road
	Surface boundary (approx.)
	Interior surface tracts (approx.)

Notes:  
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
Well No. Vulcan Unit 1H Top Hole coordinates are  
N. 368,483.92' Latitude: 39°30'14.38"  
E. 1,622,668.14' Longitude: 80°50'14.26"  
Bottom Hole coordinates are  
N. 354,277.39' Latitude: 39°27'54.55"  
E. 1,626,605.61' Longitude: 80°48'21.37"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates: Bottom Hole Coordinates  
N. 4,372,729.169m N. 4,368,421.136m  
E. 514,003.173m E. 515,274.967m  
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. Vulcan Unit 1H  
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E. 1,686,311.30'  
Point of Entry Coordinates  
N. 14,344,830.28'  
E. 1,685,847.93'  
Bottom Hole Coordinates  
N. 14,331,347.02'  
E. 1,690,483.91'

Well Location References

Bearing	Dist.
L1	S 36°01' E 1,224.7'
L2	S 77°07' W 2,057.4'
L3	N 73°56' W 1,531.8'
L4	N 46°04' E 1,198.8'
L5	S 36°25' W 799.1'

RECEIVED  
Office of Oil and Gas  
SEP 14 2020  
WV Department of Environmental Protection

FILE NO: 189-54-E-19  
DRAWING NO: Vulcan Unit 1H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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

DATE: July 30 2020  
OPERATOR'S WELL NO. Vulcan 1H  
API WELL NO  
47 - 095 - 02701  
STATE COUNTY PERMIT

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

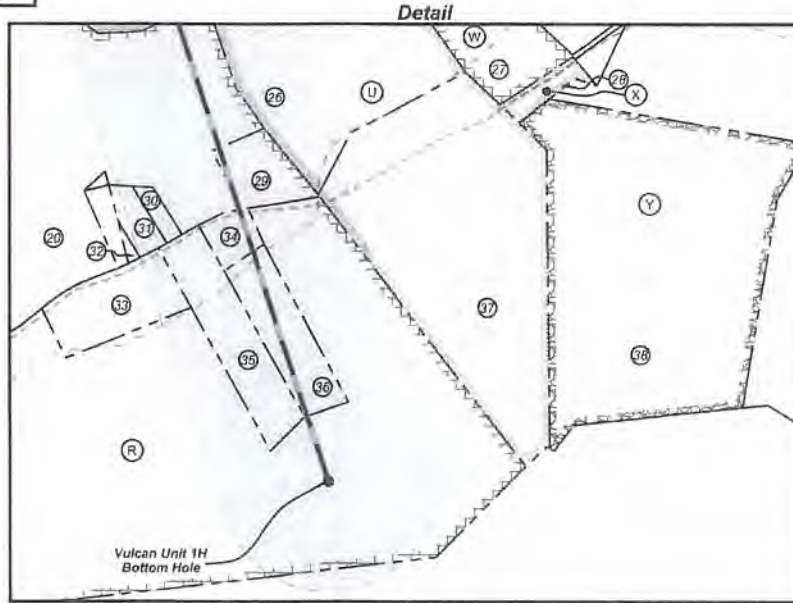
LOCATION: ELEVATION: As-Built 1,081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley  
DISTRICT: Ellsworth COUNTY: Tyler 45.79.042; 177.79.919; 22.95.69.50; 90.222.65; 97.2.271

SURFACE OWNER: Richard D. Pyles, Ronald P. Webb, Richard L. White, II, Kendra K. Wyke, Ridgeton Capital II, LP (2), BRC Appalachian Minerals I, LLC, Anthony Bruce Parr, ACREAGE: 168.5  
ROYALTY OWNER: Richard D. & Cathy J. Pyles, Joseph L. Silko, et ux, William S. Nash, et al, Helen E. Boggas, LEASE NO: ACREAGE: 97.2

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,100' TVD 23,100' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stampler - CT Corporation System  
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313





ID	TMP/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.50
2	16-22	Joseph L. Silko, et ux	298/13	61.70
3	16-23	Joseph L. Silko	314/462	29.70
4	16-44.1	Carl Straight	543/598	3.70
5	15-38	Rodney A. & Candis L. Nash	351/701	85.48
6	16-44	Robert A. Pyles, et al	335/482	87.82
7	16-42.1	Richard D. Pyles	336/815	4.56
8	15-32	William S. & Opal Marie Nash	335/188	78.58
9	22-3	Harold L. & Deborah C. Holloway	287/669	22.95
10	16-43	Alfred L. Eddy	344/22	37.10
11	22-1	Robert I. Reed & Floyd W. Reed	321/763	37.60
12	22-2	Ronald Hartline & Jamie Barnhart	591/741	1.50
13	22-4	Stephen H. & Barbara J. Dunthorn	216/40	69.00
14	22-6	Antero Resources Inc.	662/782	131.57
15	22-5	Antero Resources Corporation	662/782	84.97
16	22-41	Anthony B. Parr	342/763	22.00
17	22-40	Ronald P. & Sandra L. Webb	282/1	65.00
18	22-39	Ronald P. & Sandra L. Webb	770/587	45.00
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24	22-36	B.W. Weekley	107/562	23.50
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T	Nancy L. Mains
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W	Wanda J. Parr
X	Lucille Adams
Y	Bounty Minerals, LLC

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Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV



DATE: July 30 2020  
OPERATOR'S WELL NO. Vulcan 1H  
API WELL NO  
47 - 095 - 02701  
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built 1,081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley  
DISTRICT: Ellsworth COUNTY: Tyler 45, 79, 042;  
177, 79, 919;  
22, 95, 69, 50;  
90, 222, 65;  
97, 2, 271

SURFACE OWNER: Richard D. Pyles, Ronald P. Webb, Richard L. White, II, Kendra K. Wyke;  
Ridgetop Capital II, LP (2); BRC Appalachian Minerals I, LLC, Anthony Bruce Parr;  
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ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313



8,734' to Bottom Hole

1,118' to Top Hole

TOP HOLE LATITUDE 39 - 32 - 30  
BTM HOLE LATITUDE 39 - 30 - 00

TOP LONGITUDE 80 - 50 - 00  
BTM LONGITUDE 80 - 47 - 30

Antero Resources  
Well No. Vulcan 1H  
BHL MOD  
Antero Resources Corporation



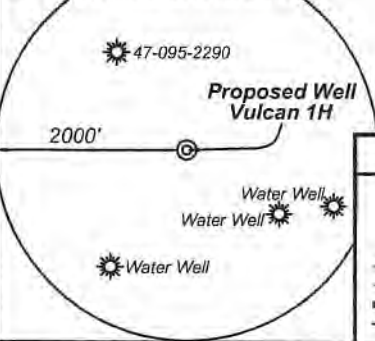
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*Bradley D. Miller*  
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Note: 3 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



**Legend**

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L4	N 46°04' E	1,198.8'
L5	S 36°25' W	799.1'

BTM Hole  
7.5' Spot

Top Hole  
7.5' Spot

Vulcan Unit 1H  
Bottom Hole

See Detail  
(Page 2)

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MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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

DATE: July 30 2020  
OPERATOR'S WELL NO. Vulcan 1H  
API WELL NO M001  
47 - 095 - 02701  
STATE COUNTY PERMIT

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

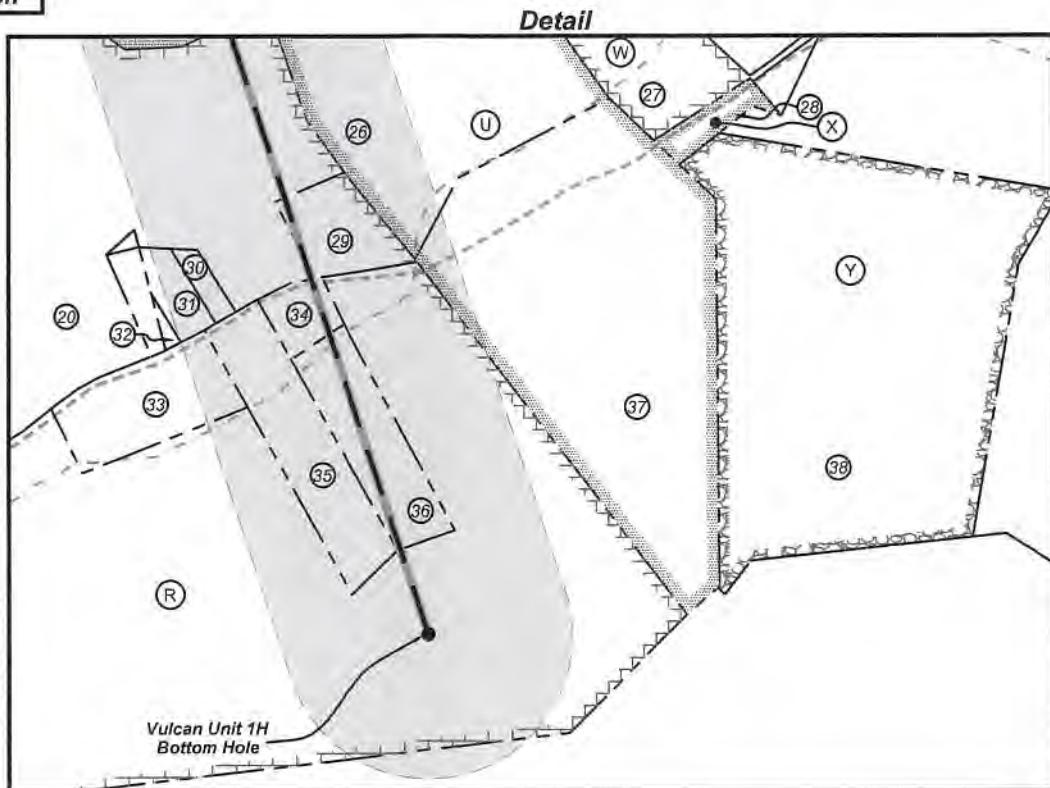
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Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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

DATE: July 30 2020  
OPERATOR'S WELL NO. Vulcan 1H  
API WELL NO H001  
47 - 095 - 02701  
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

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1,118' to Top Hole

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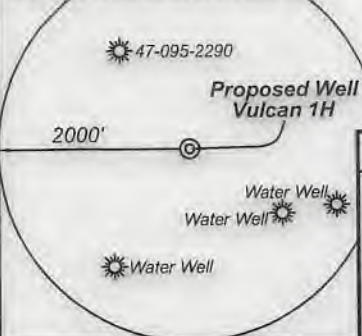
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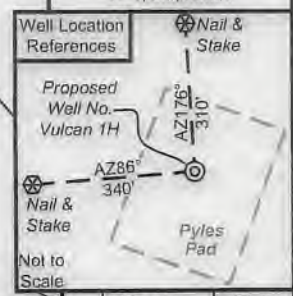


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BTM Hole 7.5' Spot

Top Hole 7.5' Spot

Vulcan Unit 1H Bottom Hole  
See Detail (Page 2)

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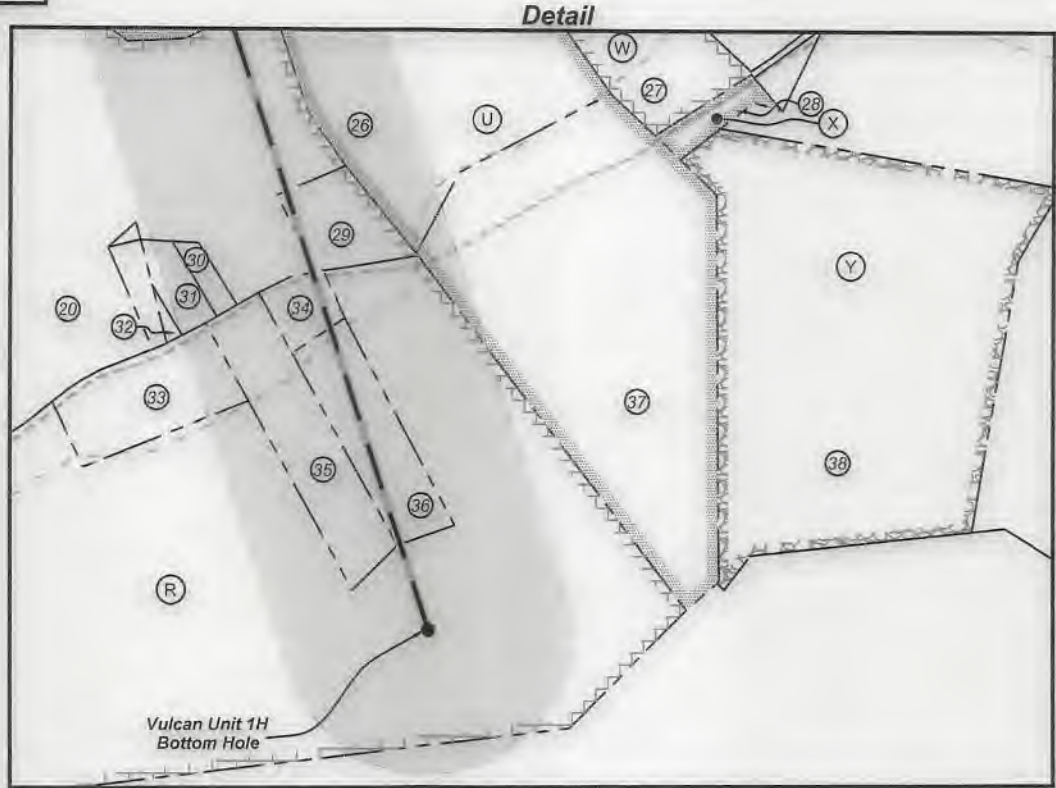
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LOCATION: ELEVATION: As-Built 1,081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley  
DISTRICT: Ellsworth COUNTY: Tyler 45; 79.042;  
SURFACE OWNER: Richard D. Pyles Ronald P. Webb; Richard L. White, II; Kendra K. Wyke; 177; 79.919;  
Ridgetop Capital II, LP (2); BRC Appalachian Minerals I, LLC; Anthony Bruce Parr; ACREAGE: 168.5 22.95; 69.50;  
ROYALTY OWNER: Richard D. & Cathy J. Pyles; Joseph L. Sitko, et ux; William S. Nash, et al; Helen E. Boggs; LEASE NO: ACREAGE: 90; 222; 65;  
97.2; 271  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,100' TVD  
23,100' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313





ID	TM/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.50
2	16-22	Joseph L. Jr. & Karen L. Sitko	296/13	81.70
3	16-23	Joseph L. Sitko	314/462	29.70
4	16-44.1	Carl Straight	543/598	3.70
5	15-38	Rodney A. & Candis L. Nash	351/701	85.48
6	16-44	Robert A. Pyles, et al	335/482	87.82
7	16-42.1	Richard D. Pyles	336/815	4.56
8	15-32	William S. & Opal Marie Nash	335/188	78.58
9	22-3	Harold L. & Deborah C. Hollaway	287/669	22.95
10	16-43	Alfred L. Eddy	344/22	37.10
11	22-1	Robert I. Reed & Floyd W. Reed	321/763	37.60
12	22-2	Ronald Hartline & Jamie Barnhart	591/741	1.50
13	22-4	Stephen H. & Barbara J. Dunthorn	216/40	69.00
14	22-6	Antero Resources Inc.	662/782	131.57
15	22-5	Antero Resources Corporation	662/782	84.67
16	22-41	Anthony B. Parr	342/763	222.00
17	22-40	Ronald P. & Sandra L. Webb	282/1	65.00
18	22-39	Ronald P. & Sandra L. Webb	270/587	45.00
19	28-9	David & Cheryl L. Barrick	263/606	87.53
20	28-31	Victor A. & Lorraine B. Weekley	AR49/717	271.00
21	22-38	Bruce & Sandra L. Parr	368/790	113.0
22	22-37	B.W. Weekley	107/562	15.78
23	22-34	Raymond L. Parr, et al	329/181	55.25
24	22-36	B.W. Weekley	107/562	23.50
25	22-35	Marie Eddy	344/358	52.96
26	28-32	B.W. Weekley	107/562	33.31
27	28-43	Wanda J. Parr	327/435	8.02
28	28-42	Robert H. Anderson	238/76	0.99
29	28-31.1	Joshua M. & Crystal L. Rocchio	348/33	2.30
30	28-31.16	William Morgan	374/472	0.50
31	28-31.12	William Morgan	374/472	1.00
32	28-31.19	James & Peggy Morgan	377/10	0.14
33	28-31.10	Danny Swiger & Peggy Smith	356/675	4.00
34	28-31.20	Randy Wells	445/315	1.00
35	28-31.3	David Lantz & Rita Parr	618/689	5.00
36	28-31.2	David Lantz & Rita Parr	618/689	4.00
37	28-33	B.W. Weekley	107/562	25.30
38	28-35	Shirl N. Baker Jr.	WB 38/1	32.00

Leases	
A	Richard D. & Cathy J. Pyles
B	Joseph L. Sitko, et ux
C	Joseph L. Sitko, et ux
D	Bruce Winkelmann
E	Helen E. Boggs
F	Richard D. & Cathy J. Pyles
G	William S. Nash, et al
H	Ridgetop Capital II, LP
I	Alfred Lonzo Eddy
J	Ridgetop Capital II, LP
K	Marjorie R. Asher Longston, et vir
L	Ridgetop Capital II, LP
M	Anthony Bruce Parr
N	BRC Appalachian Minerals I, LLC
O	Ronald P. Webb
P	Carol J. Knapp
Q	Anthony Bruce Parr, et ux
R	Kendra K. Wyke
S	OPEN
T	Nancy L. Mains
U	Richard Lee White, II
V	Larry Stevens
W	Wanda J. Parr
X	Lucille Adams
Y	Bounty Minerals, LLC

FILE NO: 189-54-E-19  
DRAWING NO: Vulcan Unit 1H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

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

DATE: July 30 2020  
OPERATOR'S WELL NO. Vulcan 1H  
API WELL NO MODI  
47 - 095 - 02701  
STATE COUNTY PERMIT

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

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