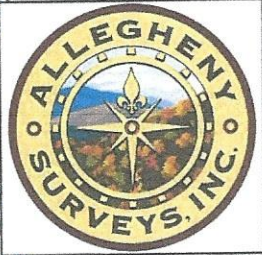
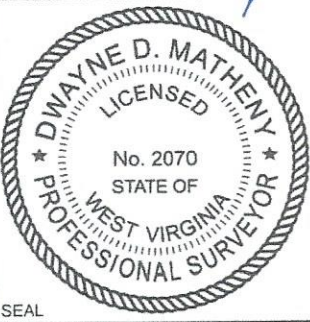


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-11H 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 28 2023
OPERATOR'S WELL NO. Vaneck 1215 S-11H
API WELL NO
47 - 041 - 05741
STATE COUNTY PERMIT

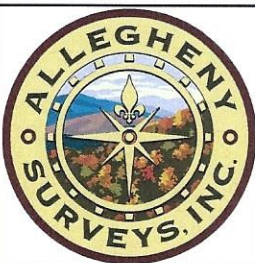
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: Lewis
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 56.00
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: 32,433' 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

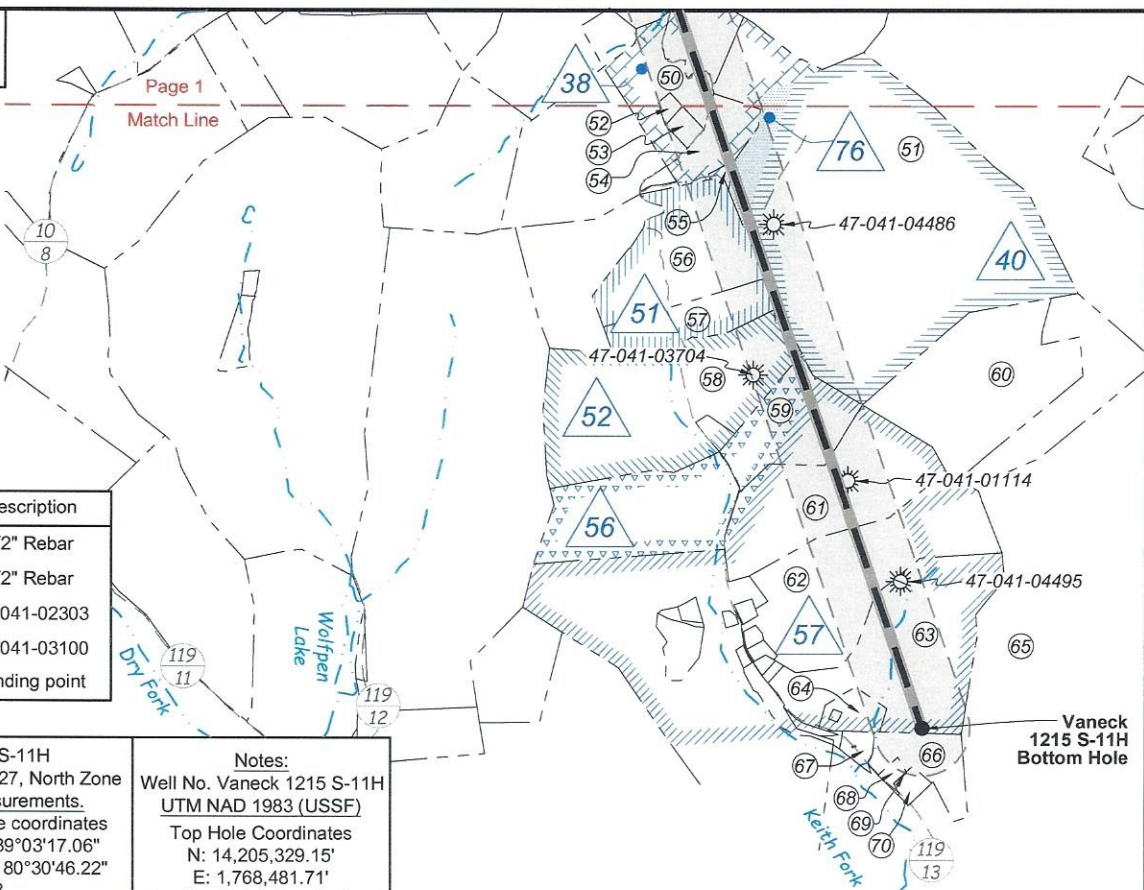
05/05/2023



Tag	Bearing	Dist.	Description
L1	S 78°20' W	879.8'	1/2" Rebar
L2	N 50°07' W	539.9'	1/2" Rebar
L3	N 31°01' E	488.7'	47-041-02303
L4	S 79°00' E	330.6'	47-041-03100
L5	N 78°53' E	2,276.7'	Landing point

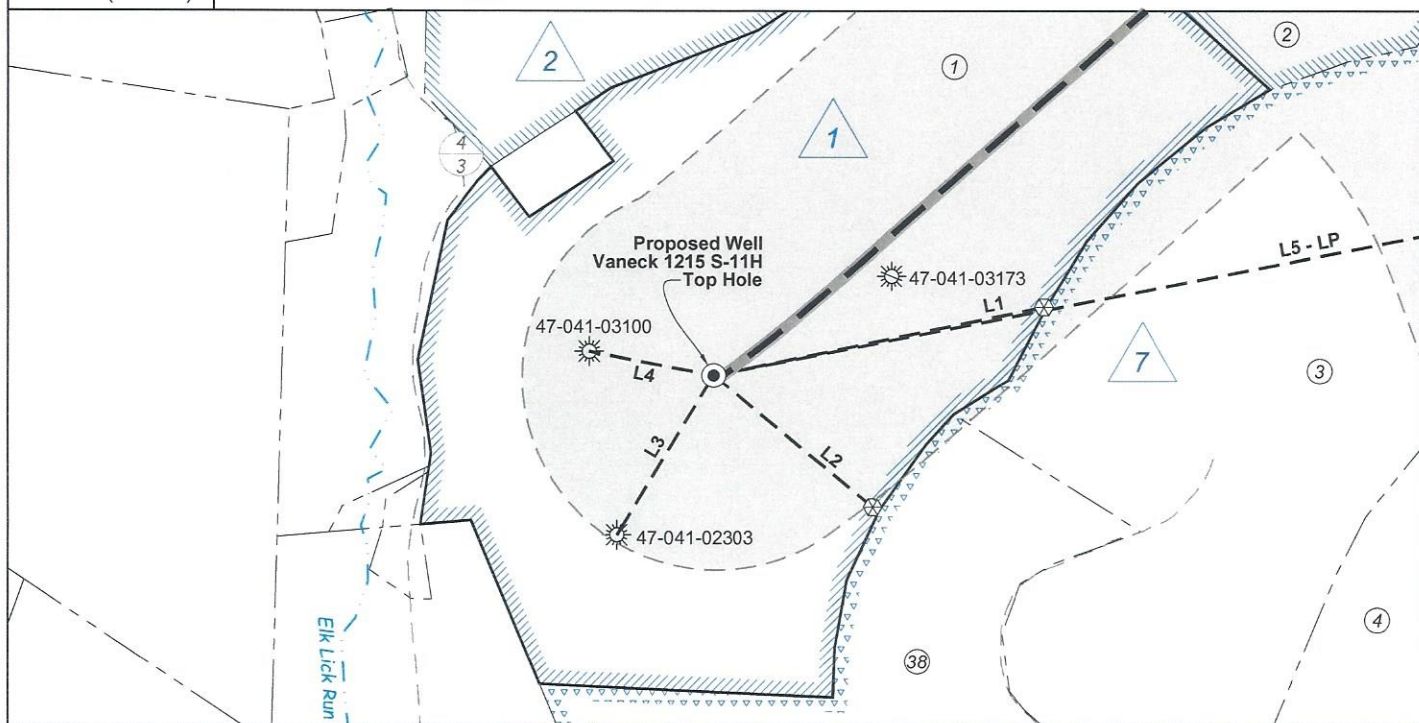
Notes: Well No. Vaneck 1215 S-11H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'58.78" Latitude: 39°03'17.06"
Longitude: 80°32'55.17" Longitude: 80°30'46.22"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,792.985m N: 4,322,974.351m
E: 539,034.303m E: 542,167.681m
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-11H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,329.15'
E: 1,768,481.71'
Landing Point Coordinates
N: 14,205,767.84'
E: 1,770,715.76'
Deflection Point Coordinates
N: 14,196,065.52'
E: 1,774,289.56'
Bottom Hole Coordinates
N: 14,182,958.35'
E: 1,778,761.80'



Vaneck 1215 S-11H Bottom Hole

Detail 1 (1"=500')



FILE NO: 156-36-UFC-20
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PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

DATE: March 16 2023
OPERATOR'S WELL NO. Vaneck 1215 S-11H
API WELL NO
47 - 041 - 05741
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: Lewis

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,040' TVD 32,433' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

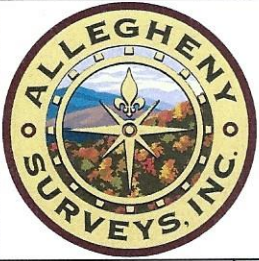
ADDRESS: 5260 Dupont Road

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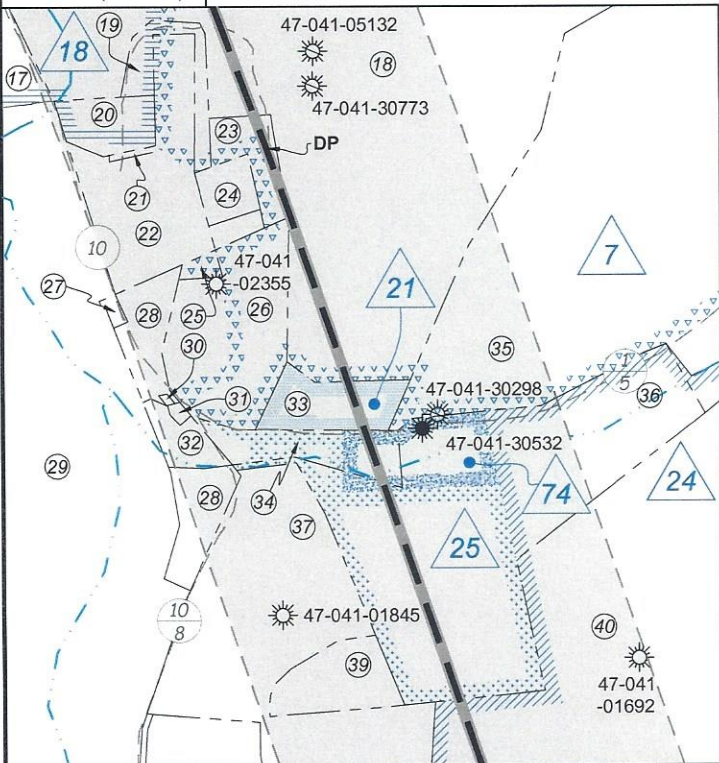
Parkersburg, WV 26101

Parkersburg, WV 26101

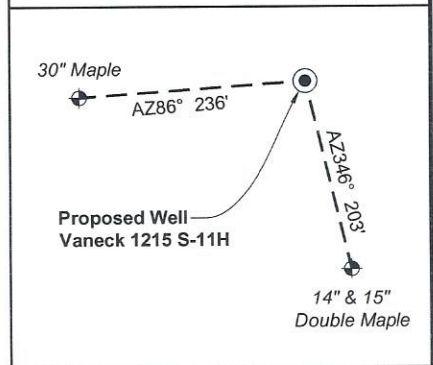
05/05/2023



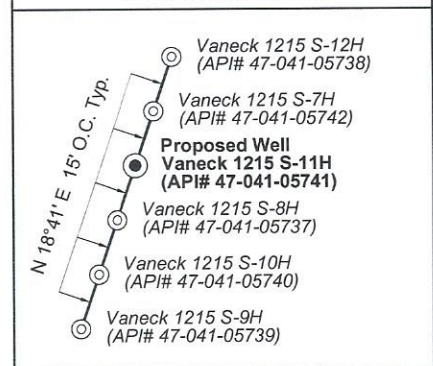
Detail 2 (1"=500')



Well Location References (NTS)



Wellhead Layout (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.)

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-11H 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: March 16 2023
OPERATOR'S WELL NO. Vaneck 1215 S-11H
API WELL NO
47 — 041 — 05741
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: Lewis

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

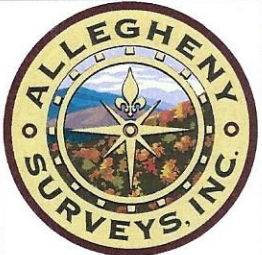
PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 32,433' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

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Parkersburg, WV 26101



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 / 30	Woody Lumber Co. Inc.	590 / 438	140.50
3	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
4	5C / 22	Linda Lou Waggoner	W33 / 157	57.76
5	5C / 39	Phillip E. Burnside, et al	666 / 503	47.00
6	5C / 22.1	Janet L. & Joseph C. Waggoner, Sr.	705 / 183	57.53
7	5C / 45	Phillip E. Burnside, et al	666 / 503	121.42
8	5C / 46	John K. Burnside, et al	W1 / 393	60.00
9	5D / 35	Edward E. Garrett, et al	429 / 245	130.47
10	5D / 60.13	Richard B. & Erica S. Messenger	577 / 212	23.96
11	5D / 36.1	Clifford B. Messenger	625 / 166	5.00
12	5D / 60.1	Michael & Juile Lough	750 / 243	2.02
13	5D / 36.2	Clifford B. Messenger	625 / 166	27.32
14	5D / 36	Carroll G. Gum, et al	625 / 343	9.71
15	5D / 37	Michael & Melissa Lattea	F32 / 55	13.86
16	5D / 38	Marsha Boggs	W8 / 308	18.82
17	5D / 39.3	Janice W. Sundstrom	W41 / 517	35.09
18	5D / 39	John M. & Diana L. Garrett	701 / 658	41.92
19	5D / 40	United Brethern Church Cemetery	219 / 27	1.00
20	5D / 41	Freemansburg U.M. Church	20 / 104	0.90
21	5D / 42	Freemansburg U.M. Church	5 / 216	0.05
22	5D / 56	Freemans Creek Baptist Church	- / -	0.90
23	5D / 39.1	L.L. Kemper (Cemetery)	284 / 287	1.50
24	5D / 44	Freemans Creek Baptist Church	28 / 337	1.00
25	5D / 43	Perry & Grace Waggoner	616 / 250	0.75
26	5D / 45	Perry & Grace Waggoner	616 / 250	2.45
27	5D / 46	Edward E. Garrett, et al	429 / 245	0.07
28	5D / 49	Edward E. Garrett	WB R / 498	1.50
29	5D / 32	Burce Garrett, et al	577 / 351	100.60
30	5D / 55	Harvey A. Hall Estate	F31 / 109	0.02
31	5D / 66	Donald Smith & William Self, Sr.	760 / 898	0.06
32	5D / 47	John P. & Betty L. Rowan	640 / 15	0.50
33	5D / 39.2	Timothy R. & Alicia L. Beer	601 / 673	1.25
34	5D / 48	Edward E. Garrett	553 / 382	1.00
35	5D / 57	John T. Garrett, et al	728 / 296	28.70
36	5D / 54	Edward E. Garrett	W7 / 578	10.50
37	5D / 51	Michael & Glodell Morris	621 / 412	13.55
38	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
39	5D / 51.3	Amanda & William Rowan	726 / 69	1.11
40	6D / 10	Sue E. Hall & Alice J. Fisher	583 / 439	252.44
41	5D / 51.2	Samuel T. & Julia A. Grant	723 / 600	2.28
42	5E / 43	KAIA	721 / 683	58.22
43	5E / 40	Paul J. & Sheila K. Slater	783 / 560	38.00
44	5E / 44	Jacob E. Cogar	745 / 775	1.89
45	6E / 1.8	Patricia A. & Joel S. Harris	721 / 670	4.95
46	5E / 42	Bruce S. Kimmel, et al	778 / 516	1.62
47	6E / 1.5	Diane Mosey	714 / 772	2.00
48	6E / 1.7	Patricia A. & Joel S. Harris	721 / 670	61.20
49	6E / 2	Sand Hill Land Ventures, LP	777 / 873	8.12
50	5E / 37	James E. & Edith A. Browning	486 / 387	17.88
51	6E / 4	Sand Hill Land Ventures, LP	777 / 873	171.06
52	5E / 36	Carolyn Jeffries, et al	753 / 917	1.00
53	5E / 35	Carolyn Jeffries, et al	753 / 917	2.00
54	6E / 3	Sand Hill Land Ventures, LP	777 / 873	9.36
55	6E / 3.1	Sand Hill Land Ventures, LP	777 / 873	0.64
56	6E / 5	Sandra Dodd & William Collins	438 / 339	30.91
57	6E / 5.1	Allen D. Marple	W10 / 258	15.34
58	5E / 32	Allen D. Marple	W47 / 451	67.55
59	6E / 43	Gary L. Wright	767 / 622	22.82
60	6E / 10	Sand Hill Land Ventures, LP	777 / 873	51.75
61	6E / 7	Gerald R. Wright	388 / 322	50.67
62	6F / 1.2	Roger L. & LaDonna F. Sprouse	323 / 649	53.86
63	6F / 34	Kevin & Janet Mullooly	551 / 36	52.27
64	6F / 5.1	Chasidy D. & William D. Murray	729 / 828	4.81
65	6F / 35	Roger D. Clem, Jr.	577 / 558	63.90
66	6F / 33.4	Bobby L. Jones	713 / 59	11.48
67	6F / 33.2	Kevin & Janet Mullooly	551 / 36	1.57
68	6F / 33.3	Charles C. & Paulette Beall	W11 / 551	0.94
69	6F / 33.6	Charles C. & Paulette Beall	490 / 275	0.03
70	6F / 33	Dennis Marple, Sr.	614 / 42	1.85

ID	Lease
1	George W. Waggoner, et ux
2	Fielding B. Riley, et al
7	F. White
9	J.A. Burnside, et ux
16	Clark White, et ux
18	J. Belle Snyder, et al
21	Elaine Lovett Cox
24	S.A. Hall, et ux, et al
25	Ai B. Miller
32	Madge Fultineer, et al
36	H.G. Energy II Appalachia, LLC
38	Simeon A. Hall, Jr., et ux
40	R.H. Hall, et ux
51	Marion Losh, et ux
52	Paul B. Losh, et ux
56	Carl G. Alfred, et ux
57	M.M. Peterson, et ux
74	Donald R. Reynolds
76	Franklin Maxwell Heirs Limited Partnership 1

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-11H Well Plat
SCALE: 1" = 2000'
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: March 16 2023
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API WELL NO
47 - 041 - 05741
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