| WR- Rey. | 8/23/ | 13 ह |
|-------------------------|-----------------|----------------------------|
| FCEIVED of Oil and (| 1 2 2021 | artment of tal Protecti |
| Office | AUM | Environmente |

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

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| Shallow |
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| |
| □ Brine |
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| |
| 2021 |
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

| Freshwater depth(s) ft | 505' | | Open mine(s) (Y/N) depths | No | |
|----------------------------|-----------------|----|------------------------------------|----|--|
| Salt water depth(s) ft | 1378' | | Void(s) encountered (Y/N) depths | No | |
| Coal depth(s) ft | None Identified | | Cavern(s) encountered (Y/N) depths | No | |
| Is coal being mined in are | a (Y/N) | No | | | |

Reviewed by:

19/91/91 12/31/2021

WR-35 Rev. 8/23/13

| API 47-095 | 02712 | Farm n | ame_Eliza | abeth Go | rrell | Wel | l number_M | ills Unit | 2H |
|--|--------------------------------------|--|---------------------|--------------------|-----------------------------------|----------------------------|-------------------------|----------------|---|
| CASING STRINGS | Hole Size | Casing Size | Depth | | w or Grad sed wt/fi | | Basket Depth(s) | | nent circulate (Y/N) de details below* |
| Conductor | 24" | 20" | 80' | 1 | vew 94 | I#, H-40 | N/A | | Y |
| Surface | 17-1/2" | 13-3/8" | 620' | 1 | vew 54 | .5#, J-55 | N/A | | Y |
| Coal | | | | | | | | | |
| Intermediate 1 | 12-1/4" | 9-5/8" | 2558' | 1 | New 30 | 6#, J-55 | N/A | - | Y |
| Intermediate 2 | | | | | | | | | |
| Intermediate 3 | | | | | | | | | |
| Production | 8-3/4"/8-1/2" | 5-1/2" | 20288 | 1 | New 20 | #, P-110 | N/A | | Y |
| Tubing | | 2-3/8" | 6457' | | 4.7 | '#, P-110 | | | |
| Packer type and de | epth set | N/A | | | 1 | | | | |
| Comment Details | | | | | | | | | |
| CEMENT | Class/Type | Numbe | er | Slurry | Yield | Volume | Cen | nent | WOC |
| DATA | of Cement | of Sacl | | wt (ppg) | (ft ³ /sks) | (<u>ft</u> ²) | | (MD) | (hrs) |
| Conductor | Class A | 266 s | | 15.6 | 1.18 | 56 | (| יכ | 8 Hrs. |
| Surface | Class A | 600 s | × | 15.8 | 1.16 | 124 | (| יכ | 8 Hrs. |
| Coal Intermediate 1 | | | | | | | | | |
| | Class A | 900 s | × | 15.8 | 1.17 | 186 | 0 |)' | 8 Hrs. |
| Intermediate 2 | | | | | | | | | |
| Intermediate 3 | | | | | | | | | |
| Production | Class H | 792 sx (Lead) 306 | i5 sx (Tail) 13.5 | (Lead), 15.2(Tail) | 1.4 (Lead), 1.32 (Ta | il) 719 | ~500' into Inter | mediate Casing | 8 Hrs. |
| Tubing | | | | | | | | | |
| Drillers TD (ft) Deepest format Plug back prod Kick off depth | tion penetrated cedure <u>N/A</u> | TVD (BHL), 6258' (Dee | pest Point Drill | | ggers TD (ft) 2 g back to (ft) | | | | |
| Check all wire | line logs run | □ caliper □ neutron | □ densi □ resist | • | deviated/direc gamma ray | | nduction cemperature | ⊐soni | c |
| Well cored | Yes 📕 No | Conventi | onal | Sidewall | V | Vere cutting | s collected | 🗆 Yes 🔳 | No |
| DESCRIBE TH Conductor - 0 | HE CENTRAL | IZER PLACEM | ENT USE | D FOR EA | CH CASING | STRING | | | |
| Surface - 1 above guid | de shoe, 1 above inser | t float, 1 every 4th joint to | surface | | | | | | |
| | | oat collar, 1 every 4th joint collar, 1 every 3rd joint to | | | | | | | |
| | ioarjoint, i below iloar | collar, i every sid joint to | top of cement | | | | | | |
| WAS WELL C | COMPLETED | AS SHOT HOLF | E 🗆 Yes | No | DETAILS | | | | |
| WAS WELL C | OMPLETED | OPEN HOLE? | □ Yes | No No | DETAILS | | | | |
| WERE TRACE | ERS USED | Yes 🔳 No | TYPE (| OF TRACE | ER(S) USED | I/A | | | |

 $Page \underline{2} of \underline{4}$

12/31/2021

| API 4 | 47- 095 _ 02712 Farm name Elizabeth Gorrell | | | | Well numberMills Unit 2H |
|--------------|---|---------------------------|----------------------|---------------------------|--------------------------|
| | | | | | |
| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
| | *PI | FASE S | | | DEXHIBIT 1 |
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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

| Stage | Stimulations | Ave Pump | Ave Treatment | Max Breakdown | | Amount of | Amount of | Amount of |
|-------|--------------|------------|----------------|----------------|------------|----------------|--------------|------------------------|
| No | Date | Rate (BPM) | Pressure (PS1) | Pressure (PSI) | ISIP (PSI) | Proppant (lbs) | Water (bbls) | Nitrogen/other (units) |
| | | | | | | | | |
| | | | | | | | | |
| | 12 C | | | | | | | l. |
| | | ^PLE/ | ASE SEE | | CHED |) FXH | IRIT 2 |) |
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Please insert additional pages as applicable.

12/31/2021

WR-35

Completed by Brandi Hankins

er

Signature

| Rev. 8/23/13 | | | | | | | | |
|---|--|--|----------------------|----------------------|-------------|----------------------|--------------------------------------|------------|
| API 47- 095 | <u>02712</u> | Farm | name Elizabet | th Gorrell | | Well number | _r Mills Unit 2 | 2H |
| PRODUCING | FORMATION | <u>(S)</u> | DEPTHS | | | | | |
| Marcellus | | | 6154' (TOP) | TVD | 7299' (TOP) | MD | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Please insert ad | dditional pages | as applicable. | | | | | | |
| GAS TEST | □ Build up | ⊐ Drawdown | Open Flow | | OIL TEST | Flow 🗆 Pump |) | |
| SHUT-IN PRE | ESSURE Sur | face 2800 | psi Botto | om Hole | psi | DURATION (| OF TEST | hrs |
| OPEN FLOW | | | NGL | | | | | |
| | 20585 mc | fpd <u>523</u> | bpd | _ bpd | 4 bpd | □ Estimated | Orifice | 🗆 Pilot |
| | | | | | | | | |
| LITHOLOGY/ FORMATION | | BOTTOM DEPTH IN FT | TOP DEPTH IN FT | BOTTOM DEPTH IN I | | ROCK TYPE AND | PECOPDOLIA | NITITV AND |
| | NAME TVD | | MD | | | | | |
| | *PLE | EASE | SEE A | ATTA | CHED | EXHI | BII 3 | |
| | *PLE | | SEE A | | | EXHI | BII 3 | |
| | *PLE | | | | | EXHI | BII 3 | |
| | *PLE | | SEE A | | | EXHI | BII 3 | |
| | *PLE | | | | | EXHI | BII 3 | |
| | *PLE | | | | | EXHI | BII 3 | |
| | *PLE | | | | | EXHI | BII 3 | |
| Please insert ad | *PLE | | | | | | BII 3 | |
| Drilling Contra | Iditional pages a actor H & P Drilli | as applicable. | | | | EXHI | BII 3 | |
| Drilling Contra | Iditional pages a actor H & P Drilli | as applicable. | SEE A | Howard | | State PA | Zip <u>1684</u> 1 | |
| Drilling Contra Address 912 N Logging Comp | Iditional pages a actor H & P Drilli Eagle Valley Rd pany Nine Energ | as applicable. | | Howard | | | | |
| Drilling Contra Address 912 N Logging Comp Address 6500 W | iditional pages a actor H & P Drilli Eagle Valley Rd pany <u>Nine Energ</u> Vest Fwy | as applicable. ng y Services | City | | | | | |
| Drilling Contra Address 912 N Logging Comp Address 6500 V Cementing Cor | Iditional pages a actor H & P Drilli Eagle Valley Rd Dany Nine Energ Vest Fwy mpany Halliburto | as applicable. Ing y Services | City City City | Howard Fort Worth | | State PA State TX | Zip <u>16841</u> Zip <u>76116</u> | |
| Drilling Contra Address 912 N Logging Comp Address 6500 V Cementing Cor | iditional pages a actor H & P Drilli Eagle Valley Rd pany <u>Nine Energ</u> Vest Fwy | as applicable. Ing y Services | City | Howard | | State PA | | |
| Drilling Contra Address 912 N Logging Comp Address 6500 W Cementing Cor Address 3000 W Stimulating Co | Iditional pages a actor H & P Drilli Eagle Valley Rd Pany Nine Energ Vest Fwy mpany Halliburto V. Sam Houston Pk | as applicable. ng y Services on Energy Serv wy rton | City City City | Howard Fort Worth | | State PA State TX | Zip <u>16841</u> Zip <u>76116</u> | |

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

2

 Telephone
 303-357-7223

 Title
 Completions Technician
 Date

Date 11 10 21

| Stage No. | Perforation Date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formations |
|-----------|----------------------|----------------------------|-------------------------|---------------------------|------------|
| 1 | 5/30/2021 | 20225 | 20187 | 36 | Marcellus |
| 2 | 5/30/2021 | 20147.60539 | 19982.6324 | 36 | Marcellus |
| 3 | 5/30/2021 | 19947.23775 | 19782.2647 | 36 | Marcellus |
| 4 | 5/30/2021 | 19746.8701 | 19581.8971 | 36 | Marcellus |
| 5 | 5/31/2021 | 19546.50245 | 19381.5294 | 36 | Marcellus |
| 6 | 5/31/2021 | 19346.1348 | 19181.1618 | 36 | Marcellus |
| 7 | 5/31/2021 | 19145.76716 | 18980.7941 | 36 | Marcellus |
| 8 | 5/31/2021 | 18945.39951 | 18780.4265 | 36 | Marcellus |
| 10 | 6/1/2021 | 18745.03186 | 18580.0588 | 36 | Marcellus |
| 10 | 6/1/2021 6/1/2021 | 18544.66422 | 18379.6912 | 36 | Marcellus |
| 12 | 6/1/2021 | 18344.29657 | 18179.3235 | 36 | Marcellus |
| 13 | 6/1/2021 | 18143.92892 17943.56127 | 17978.9559 | 35 | Marcellus |
| 14 | 6/1/2021 | 17943.36127 | 17778.5882 | 36 | Marcellus |
| 15 | 6/2/2021 | 17542.82598 | 17578.2206 | 36 | Marcellus |
| 16 | 6/2/2021 | | 17377.8529 | 36 | Marcellus |
| 10 | 6/2/2021 | 17342.45833 17142.09069 | 17177.4853 | 36 | Marcellus |
| 17 | 6/2/2021 | 16941.72304 | 16977.1176 | 36 | Marcellus |
| 18 | 6/2/2021 | 16941.72304 | 16776.75 | 36 | Marcellus |
| 20 | 6/2/2021 | | 16576.3824 | 36 | Marcellus |
| 20 | 6/2/2021 | 16540.98775 | 16376.0147 | 36 | Marcellus |
| 21 | | 16340.6201 | 16175.6471 | 36 | Marcellus |
| _ | 6/3/2021 | 16140.25245 | 15975.2794 | 36 | Marcellus |
| 23 | 6/3/2021 6/3/2021 | 15939.8848 | 15774.9118 | 36 | Marcellus |
| 24 | | 15739.51716 | 15574.5441 | 36 | Marcellus |
| 25 | 6/3/2021 | 15539.14951 | 15374.1765 | 36 | Marcellus |
| 26 | 6/4/2021 | 15338.78186 | 15173.8088 | 36 | Marcellus |
| 27 | 6/4/2021 | 15138.41422 | 14973.4412 | 36 | Marcellus |
| 28 | 6/4/2021 | 14938.04657 | 14773.0735 | 36 | Marcellus |
| 29 | 6/5/2021 | 14737.67892 | 14572.7059 | 36 | Marcellus |
| 30 | 6/5/2021 | 14537.31127 | 14372.3382 | 36 | Marcellus |
| 31 | 6/5/2021 | 14336.94363 | 14171.9706 | 36 | Marcellus |
| 32 | 6/5/2021 | 14136.57598 | 13971.6029 | 36 | Marcellus |
| 33 | 6/6/2021 | 13936.20833 | 13771.2353 | 36 | Marcellus |
| 34 | 6/6/2021 | 13735.84069 | 13570.8676 | 36 | Marcellus |
| 35 | 6/6/2021 | 13535.47304 | 13370.5 | 36 | Marcellus |
| 36 | 6/6/2021 | 13335.10539 | 13170.1324 | 36 | Marcellus |
| 37 | 6/7/2021 | 13134.73775 | 12969.7647 | 36 | Marcellus |
| 38 | 6/7/2021 | 12934.3701 | 12769.3971 | 36 | Marcellus |
| 39 | 6/7/2021 | 12734.00245 | 12569.0294 | 36 | Marcellus |
| 40 | 6/7/2021 | 12533.6348 | 12368.6618 | 36 | Marcellus |
| 41 | 6/7/2021 | 12333.26716 | 12168.2941 | 36 | Marcellus |
| 42 | 6/7/2021 | 12132.89951 | 11967.9265 | 36 | Marcellus |
| 43 | 6/8/2021 | 11932.53186 | 11767.5588 | 36 | Marcellus |
| 44 | 6/8/2021 | 11732.16422 | 11567.1912 | 36 | Marcellus |
| 45 | 6/8/2021 | 11531.79657 | 11366.8235 | 36 | Marcellus |
| 46 | 6/9/2021 | 11331.42892 | 11166.4559 | 36 | Marcellus |
| 47 | 6/9/2021 | 11131.06127 | 10966.0882 | 36 | Marcellus |
| 48 | 6/9/2021 | 10930.69363 | 10765.7206 | 36 | Marcellus |
| 49 | 6/9/2021 | 10730.32598 | 10565.3529 | 36 | Marcellus |
| 50 | 6/10/2021 | 10529.95833 | 10364.9853 | 36 | Marcellus |
| 51 | 6/10/2021 | 10329.59069 | 10164.6176 | 36 | Marcellus |
| 52 | 6/10/2021 | 10129.22304 | 9964.25 | 36 | Marcellus |
| 53 | 6/11/2021 | 9928.855392 | 9763.88235 | 36 | Marcellus |
| 54 | 6/11/2021 | 9728.487745 | 9563.51471 | 36 | Marcellus |
| 55 | 6/11/2021 | 9528.120098 | 9363.14706 | 36 | Marcellus |
| 56 | 6/12/2021 | 9327.752451 | 9162.77941 | 36 | Marcellus |
| 57 | 6/12/2021 | 9127.384804 | 8962.41176 | 36 | Marcellus |
| 58 | 6/12/2021 | 8927.017157 | 8762.04412 | 36 | Marcellus |
| 59 | 6/13/2021 | 8726.64951 | 8561.67647 | 36 | Marcellus |
| 60 | 6/13/2021 | 8526.281863 | 8361.30882 | 36 | Marcellus |
| 61 | 6/13/2021 | 8325.914216 | 8160.94118 | 36 | Marcellus |
| 62 | 6/14/2021 | 8125.546569 | 7960.57353 | 36 | Marcellus |
| 63 | 6/14/2021 | 7925.178922 | 7760.20588 | 36 | Marcellus |
| 64 | 6/14/2021 | 7724.811275 | 7559.83824 | 36 | Marcellus |
| 65 | 6/14/2021 | 7524.443627 | 7359.47059 | 36 | Marcellus |
| 66 | 6/15/2021 | 7324.07598 | 7159.10294 | 36 | Marcellus |
| 67 | 6/15/2021 | 7123.708333 | 6958.73529 | 36 | Marcellus |
| 68 | 6/15/2021 | 6923.340686 | 6758.36765 | 36 | Marcellus |
| 69 | 6/15/2021 | 6722.973039 | 6558 | 36 | Marcellus |

| | | | <u>, 14</u> rafm N | EXHIB | | ll Number <u>Millis Unit 2H</u> | | |
|-----------|------------------------|------------------|---------------------------------------|---------------------------------------|--------------|---------------------------------|---------------------------|---|
| Stage No. | Stimulations Date | Avg Pump Rate | Avg Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (ibs) | Amount of Water (bbls) | Amount o Nitrogen/ other (units) |
| 1 | 5/30/2021 | 86.82 | 8253 | 9004 | 2564.9 | 160883 | 201362 | N/A |
| 2 | 5/30/2021 | 91.34 | 8602 | 5604 | 3403 | 402140 | 299257 | N/A |
| 3 4 | 5/30/2021 5/30/2021 | 88.77 98.53 | 8326 8490 | 5244 | 3321 | 403040 | 311952 | N/A |
| 5 | 5/31/2021 | 98.55 | 8490 | 5526 5178 | 3475 3552 | 397623 400229 | 316302 309292 | N/A |
| 6 | 5/31/2021 | 99.12 | 8375 | 4856 | 3437 | 399998 | 309292 | N/A N/A |
| 7 | 5/31/2021 | 90.53 | 8620 | 7320 | 3474 | 406820 | 293472 | N/A |
| 8 | 5/31/2021 | 91.27 | 8729 | 8100 | 3625 | 399326 | 288004 | N/A |
| 9 | 6/1/2021 | 66.5 | 8565 | 5437 | 3311 | 399795 | 398535 | N/A |
| 10 11 | 6/1/2021 6/1/2021 | 98.07 94.68 | 8582 8604 | 5665 5756 | 3557 3323 | 399863 | 296984 | N/A |
| 12 | 6/1/2021 | 94.57 | 8556 | 6015 | 3482 | 401233 400600 | 285750 283449 | N/A |
| 13 | 6/1/2021 | 89.53 | 8780 | 4803 | 3489 | 401860 | 312457 | N/A N/A |
| 14 | 6/1/2021 | 93.56 | 8654 | 5873 | 3405 | 404140 | 288085 | N/A |
| 15 | 6/2/2021 | 99.25 | 8598 | 5527 | 3251 | 399791 | 286994 | N/A |
| 16 | 6/2/2021 | 98.84 | 8268 | 5625 | 3223 | 399877 | 279067 | N/A |
| 17 | 6/2/2021 6/2/2021 | 91.08 96.89 | 8573 | 5263 | 3259 | 405336 | 282369 | N/A |
| 18 19 | 6/2/2021 | 96.89 | 8637 8791 | 3632 5583 | 3247 3462 | 403080 | 281285 | N/A |
| 20 | 6/2/2021 | 95.32 | 8645 | 4116 | 3462 | 402300 | 283140 285313 | N/A N/A |
| 21 | 6/3/2021 | 96.03 | 8731 | 6716 | 3613 | 402006 | 318155 | N/A N/A |
| 22 | 6/3/2021 | 95.66 | 8608 | 6062 | 3330 | 396360 | 280072 | N/A |
| 23 | 6/3/2021 | 97.78 | 8675 | 5427 | 3367 | 403960 | 280945 | N/A |
| 24 | 6/3/2021 | 98.46 | 8713 | 3928 | 3478 | 400105 | 280518 | N/A |
| 25 26 | 6/3/2021 6/4/2021 | 96.2 | 8721 8591 | 6334 | 3348 | 399960 | 279200 | N/A |
| 26 | 6/4/2021 | 99.13 96.66 | 8591 8643 | 5647 6389 | 3392 3449 | 401013 | 281474 | N/A |
| 28 | 6/4/2021 | 80.81 | 8494 | 7980 | 3662 | 399298 399686 | 277621 338386 | N/A N/A |
| 29 | 6/5/2021 | 95.63 | 8680 | 5326 | 3557 | 399877 | 281009 | N/A |
| 30 | 6/5/2021 | 98.9 | 8534 | 6109 | 3414 | 400141 | 279067 | N/A |
| 31 | 6/5/2021 | 86.56 | 8199 | 6610 | 3981 | 402720 | 314498 | N/A |
| 32 | 6/5/2021 | 97.98 | 8633 | 4905 | 3741 | 399892 | 282641 | N/A |
| 33 34 | 6/6/2021 6/6/2021 | 99.22 99.6 | 8502 8108 | 5795 5658 | 3784 | 400151 | 278377 | N/A |
| 35 | 6/6/2021 | 98.53 | 8108 | 4288 | 3663 3617 | 399915 399790 | 311420 278859 | N/A |
| 36 | 6/6/2021 | 99.11 | 8289 | 5267 | 3813 | 403560 | 282269 | N/A N/A |
| 37 | 6/7/2021 | 99.62 | 8544 | 5905 | 3733 | 402860 | 285584 | N/A |
| 38 | 6/7/2021 | 98.96 | 8294 | 5175 | 3725 | 399940 | 275649 | N/A |
| 39 | 6/7/2021 | 99.43 | 8146 | 5575 | 3516.92 | 400234 | 279061 | N/A |
| 40 | 6/7/2021 6/7/2021 | 99.26 97.51 | 8453 7959 | 5418 5411 | 3568 3358 | 405460 | 279165 | N/A |
| 42 | 6/7/2021 | 99.28 | 8064 | 5689 | 3358 | 404600 | 286491 276022 | N/A |
| 43 | 6/8/2021 | 99.38 | 7730 | 5041 | 3548 | 400200 | 278022 | N/A N/A |
| 44 | 6/8/2021 | 99.88 | 7624 | 6697 | 3402 | 403620 | 277520 | N/A |
| 45 | 6/8/2021 | 91.49 | 7887 | 5073 | 3894 | 399881 | 326946 | N/A |
| 46 | 6/9/2021 | 98.67 | 8026 | 6163 | 3452 | 402140 | 285187 | N/A |
| 47 | 6/9/2021 6/9/2021 | 99.45 99.66 | 7661 | 8360 | 3244 | 399645 | 280034 | N/A |
| 48 49 | 6/9/2021 | 99.66 99.01 | 7781 8081 | 5201 6890 | 3238 3582 | 406040 | 282031 | N/A |
| 50 | 6/10/2021 | 97.62 | 7822 | 6319 | 3582 | 399902 | 281839 281276 | N/A N/A |
| 51 | 6/10/2021 | 100.1 | 8412 | 8925 | 3552 | 394915 | 276847 | N/A N/A |
| 52 | 6/10/2021 | 98.65 | 7933 | 4667 | 3472 | 400013 | 279847 | N/A |
| 53 | 6/11/2021 | 99.4 | 7588 | 5638 | 3635 | 406620 | 283678 | N/A |
| 54 | 6/11/2021 | 99.57 | 7833 | 6380 | 3555 | 402063 | 295540 | N/A |
| 55 56 | 6/11/2021 6/12/2021 | 96.39 99.31 | 7954 7573 | 4509 5961 | 3565 | 402860 | 306152 | N/A |
| 57 | 6/12/2021 | 99.81 | 7573 | 6680 | 3542 3749 | 401691 395105 | 302268 293490 | N/A |
| 58 | 6/12/2021 | 95.32 | 7534 | 6343 | 3606 | 401781 | 293490 | N/A N/A |
| 59 | 6/13/2021 | 99.84 | 7246 | 6597 | 3627 | 401356 | 328736 | N/A N/A |
| 60 | 6/13/2021 | 100.44 | 7676 | 6767 | 3581 | 401304 | 295964 | N/A |
| 61 | 6/13/2021 | 98.93 | 7674 | 6937 | 3553 | 401699 | 299061 | N/A |
| 62 | 6/14/2021 | 98.9 | 6991 | 5864 | 3298 | 402549 | 299445 | N/A |
| 63 64 | 6/14/2021 6/14/2021 | 100.69 100.1 | 7507 7661 | 6826 | 3576 | 401565 | 289507 | N/A |
| ~ | 6/14/2021 | 98.69 | 7861 | 6174 5871 | 3784 3881 | 402363 401811 | 296649 295482 | N/A |
| 65 | | | | | 3745 | 401811 | | N/A |
| 65 66 | 6/15/2021 | 100.29 | 7729 | 6334 | 3/43 | | 2940144 | Ν/Δ |
| | 6/15/2021 6/15/2021 | 100.29 99.24 | 7226 | 6530 | 3743 | 401526 | 294044 295793 | N/A N/A |
| 66 | | | | | | | | N/A N/A N/A |

| | 11 033 02712 Furth Ham | ne Elizabet Gorrell Well Numb | er Mills Unit 2H | | | | | | |
|---------------------------|---------------------------------|------------------------------------|--------------------------------|-----------------------------------|--|--|--|--|--|
| EXHIBIT 3 | | | | | | | | | |
| LITHOLOGY/ FORMATION | TOP DEPTH (TVD) From Surface | BOTTOM DEPTH (TVD) From Surface | TOP DEPTH (MD) From Surface | BOTTOM DEPTH (MD) From Surface | | | | | |
| Silty Sandstone | 70 | 300 | 70 | 300 | | | | | |
| Sandy Siltstone | 300 | 380 | 300 | 380 | | | | | |
| Sandstone | 380 | 540 | 380 | 540 | | | | | |
| Sandy Siltstone | 540 | 580 | 540 | 580 | | | | | |
| Silty Sandstone | 580 | 630 | 580 | 630 | | | | | |
| Silty Shale | 630 | 720 | 630 | 720 | | | | | |
| Shale | 720 | 1,280 | 720 | 1,280 | | | | | |
| Sandstone | 1,280 | 1,660 | 1,280 | 1,660 | | | | | |
| Sandy Siltstone | 1,660 | 1,780 | 1,660 | 1,780 | | | | | |
| Silty Sandstone, tr Shale | 1,780 | 1,820 | 1,780 | 1,820 | | | | | |
| Sandstone | 1,820 | 1,870 | 1,820 | 1,870 | | | | | |
| Sandy siltstone | 1,870 | 1,880 | 1,870 | 1,880 | | | | | |
| Sandstone | 1,880 | 1,934 | 1,880 | N/A | | | | | |
| Big Lime | 1,964 | 2,798 | 1,934 | 2,798 | | | | | |
| Fifty Foot Sandstone | 2,798 | 2,897 | 2,768 | 2,897 | | | | | |
| Gordon | 2,897 | 3,232 | 2,867 | 3,237 | | | | | |
| Fifth Sandstone | 3,232 | 3,323 | 3,207 | 3,332 | | | | | |
| Bayard | 3,323 | 3,894 | 3,302 | 3,949 | | | | | |
| Speechley | 3,894 | 4,164 | 3,919 | 4,235 | | | | | |
| Balltown | 4,164 | 4,472 | 4,205 | 4,567 | | | | | |
| Bradford | 4,472 | 4,905 | 4,537 | 5,015 | | | | | |
| Benson | 4,905 | 5,203 | 4,985 | 5,315 | | | | | |
| Alexander | 5,203 | 6,089 | 5,285 | 7,138 | | | | | |
| Sycamore | 5,991 | 6,059 | 6,155 | 7,108 | | | | | |
| Middlesex | 6,059 | 6,138 | 7,108 | 7,260 | | | | | |
| Burkett | 6,138 | 6,150 | 7,260 | 7,290 | | | | | |
| Tully | 6,150 | 6,154 | 7,290 | 7,299 | | | | | |
| Marcellus | 6,154 | NA | 7,299 | NA | | | | | |

*Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

Hydraulic Fracturing Fluid Product Component Information Disclosure

| 5/30/2021 | Job Start Date: |
|------------------------------|--------------------------------|
| 6/15/2021 | Job End Date: |
| West Virginia | State: |
| Tyler | County: |
| 47-095-02712-00-00 | API Number: |
| Antero Resources Corporation | Operator Name:" |
| Mills Unit 2H | Well Name and Number: |
| 39.41814700 | Latitude: |
| -80.99081000 | Longitude: |
| NAD83 | Datum: |
| NO | Federal Well: |
| NO | Indian Well: |
| 6,258 | True Vertical Depth: |
| 21,262,224 | Total Base Water Volume (gal): |
| 0 | Total Base Non Water Volume: |







Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|---------------------------|--------------|--------------|-------------|--|--|--|----------------|
| Produced Water Mixture | Halliburton | Base Fluid | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 86.67453 | Density = 8.50 |
| Ingredients | Listed Above | Listed Above | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 0.09663 | |

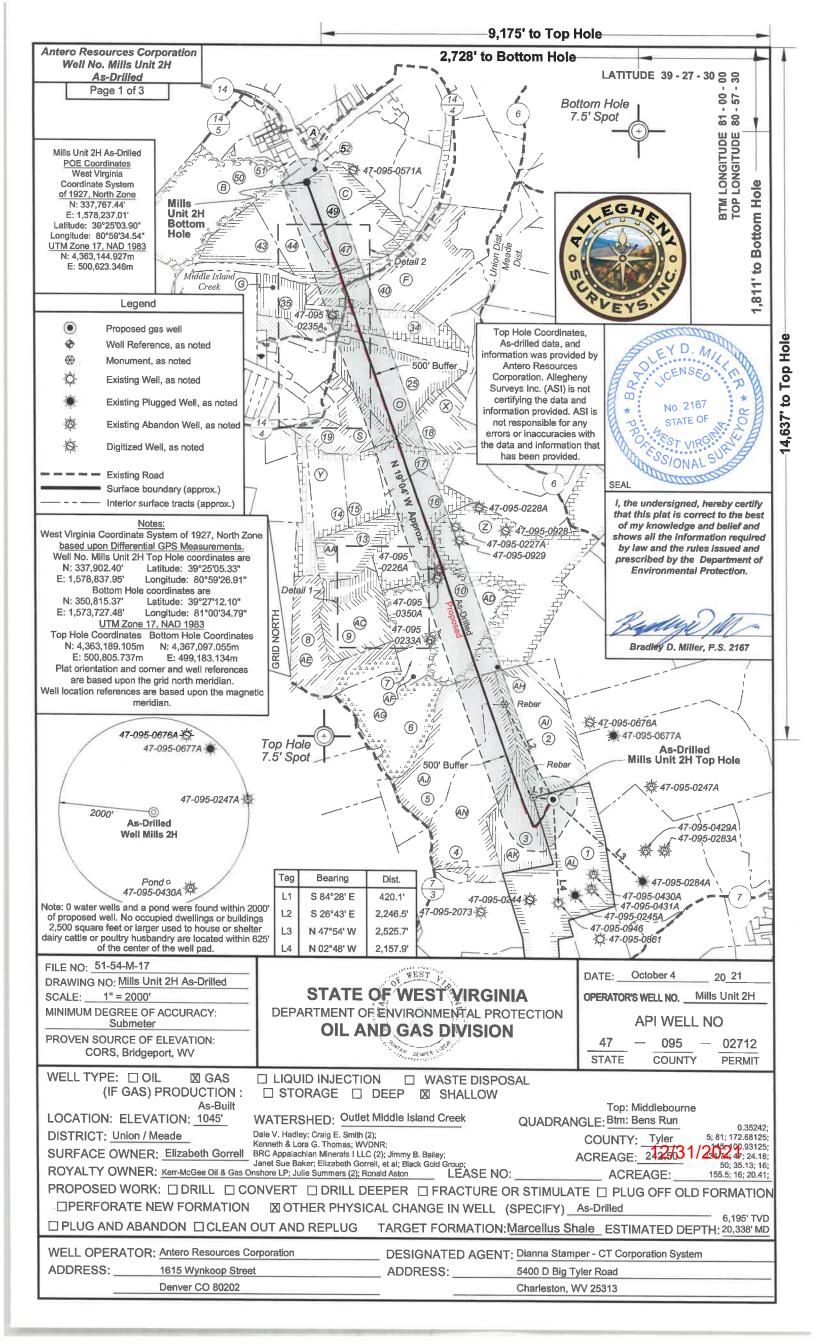
| Sand-Common White-100 Mesh, SSA-2 | Halliburton | Proppant | | |
|---|-----------------------|-----------------------------|--------------|--|
| | | | Listed Below | |
| WG-36 GELLING AGENT | Halliburton | Gelling Agent | | |
| | | | Listed Below | |
| MC B-8614A | MultiChem | Biocide | | |
| | | | Listed Below | |
| HYDROCHLORI C ACID, 22 BAUME | Halliburton | Solvent | | |
| | | | Listed Below | |
| OPTIFLO-II DELAYED RELEASE BREAKER | Halliburton | Breaker | | |
| | | | Listed Below | |
| HAI-501 | Halliburton | Acid Corrosion Inhibitor | | |
| | | | Listed Below | |
| FLUID Enviro- Syn HCR-7000- WL | Fluid Energy Group | Acid Replacement | | |
| | | | Listed Below | |
| Excelerate LX-15 | Halliburton | Friction Reducer | | |
| | | | Listed Below | |

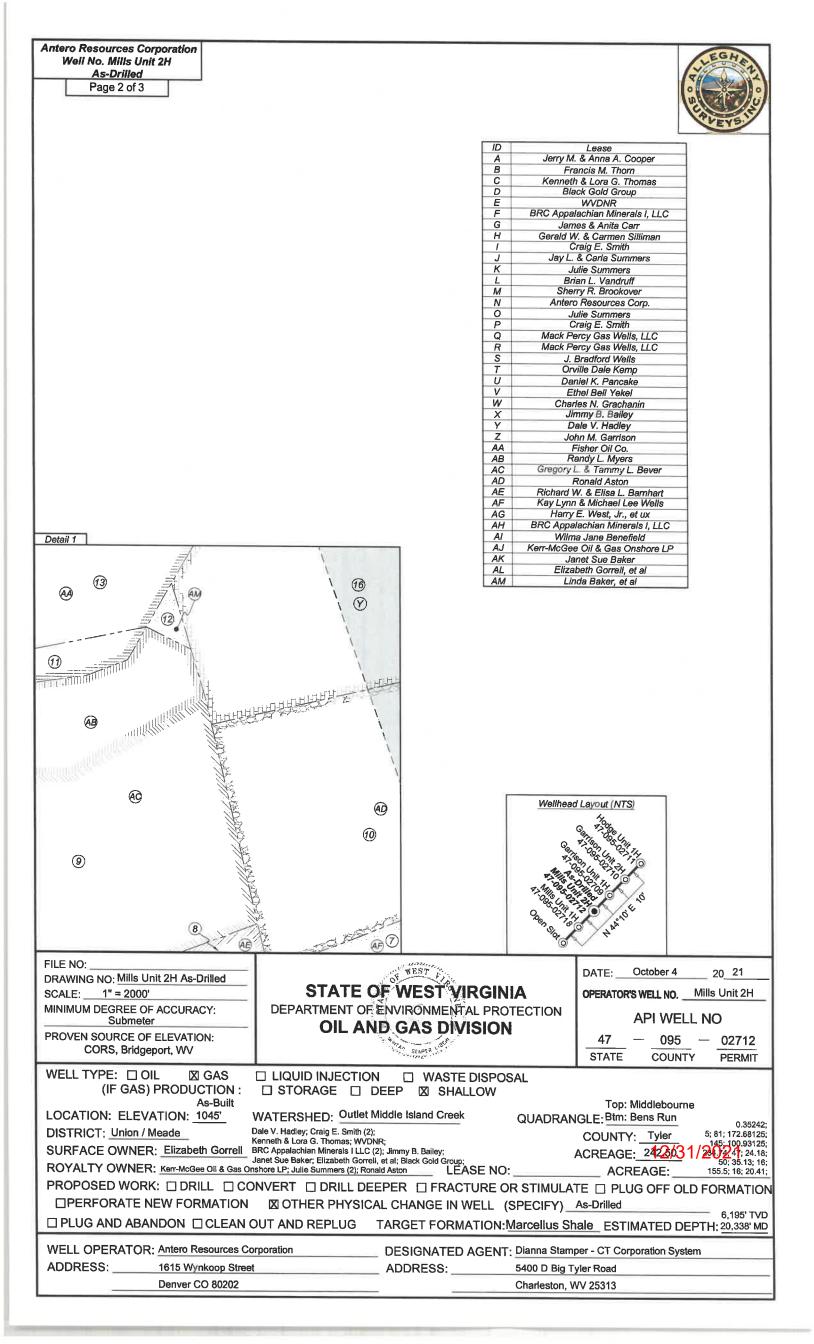
| | Crystalline silica, quartz | 14808-60-7 | 100.00000 | 13.15985 | |
|--|---|-------------|-----------|----------|--|
| | Complex Amine Compound | Proprietary | 60.00000 | 0.02784 | |
| | Hydrochloric acid | 7647-01-0 | 30.00000 | 0.01817 | |
| | Hydrotreated light petroleum distillate | 64742-47-8 | 30.00000 | 0.01392 | |
| | Proprietary | Proprietary | 20.00000 | 0.00902 | |
| | Guar gum | 9000-30-0 | 100.00000 | 0.00520 | |
| | Proprietary | Proprietary | 10.00000 | 0.00451 | |
| | Glutaraldehyde | 111-30-8 | 30.00000 | 0.00246 | |
| | Sobitan, mono-9- octadecenoate, (Z) | 1338-43-8 | 5.00000 | 0.00232 | |
| | Surfactant | Proprietary | 5.00000 | 0.00232 | |
| | Ethoxylated alcohols | Proprietary | 5.00000 | 0.00047 | |
| | Alkoxylated polyhydric alcohol | Proprietary | 1.00000 | 0.00046 | |
| | Organic chloride compound | Proprietary | 1.00000 | 0.00046 | |
| | Alkyl (C12-16) dimethylbenzyl ammonium chloride | 68424-85-1 | 5.00000 | 0.00041 | |
| | Methanol | 67-56-1 | 100.00000 | 0.00011 | |
| | Ethanol | 64-17-5 | 1.00000 | 0.00008 | |
| | Ammonium persulfate | 7727-54-0 | 100.00000 | 0.00004 | |
| | Mixture of dimer and trimer fatty acids of indefinite compostion derived from tall oil | 61790-12-3 | 30.00000 | 0.00003 | |
| | Modified thiourea polymer | Proprietary | 30.00000 | 0.00003 | |
| | Oxylated phenolic resin | Proprietary | 30.00000 | 0.00001 | |
| | Propargyl alcohol | 107-19-7 | 5.00000 | 0.00001 | |
| | Hexadecene | 629-73-2 | 5.00000 | 0.00001 | |
| | Organic salt #2 | Proprietary | 0.01000 | 0.00000 | |
| | Formaldehyde | 50-00-0 | 0.01000 | 0.00000 | |

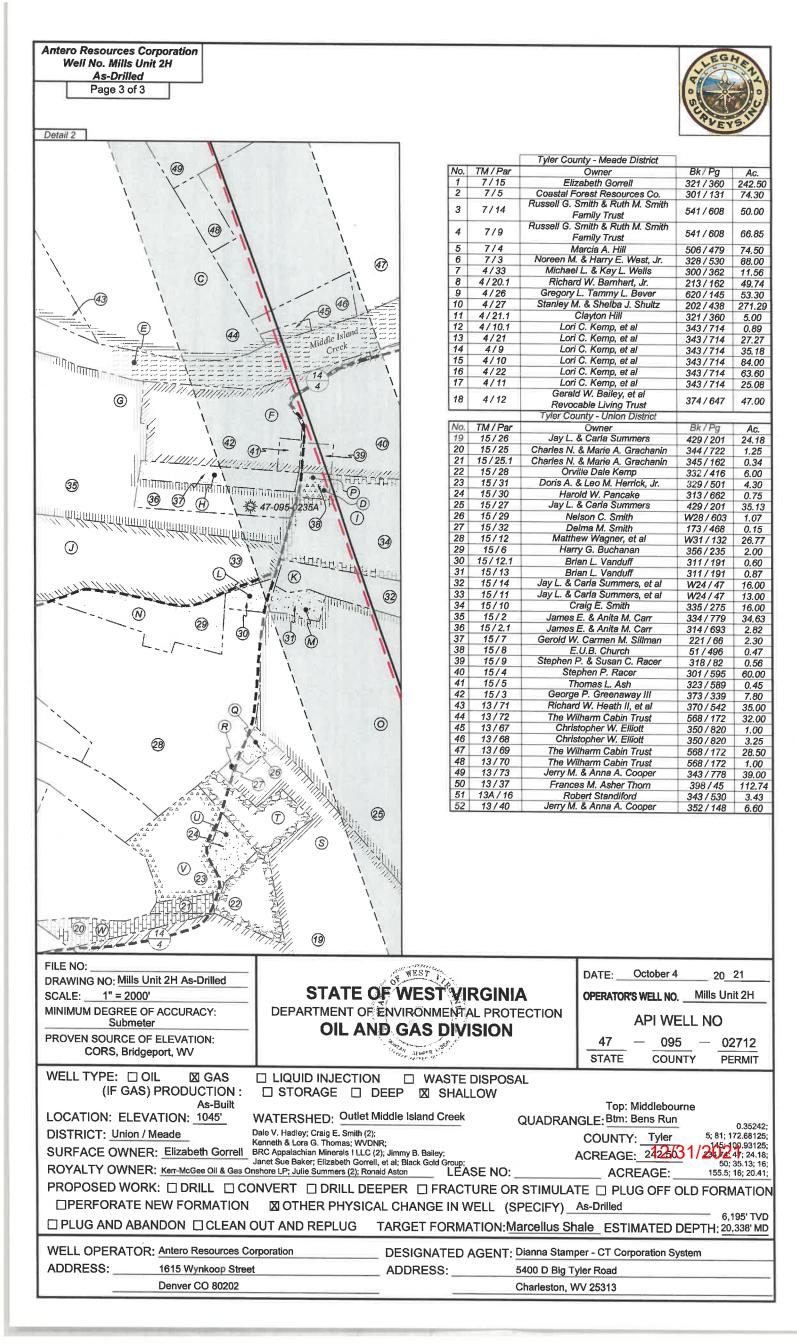
| Sodium glycolate | 2836-32-0 | 0.01000 | 0.00000 | |
|-----------------------|-------------|---------|---------|--|
| Organic salt #1 | Proprietary | 0.01000 | 0.00000 | |
| Sodium hydroxide | 1310-73-2 | 0.01000 | 0.00000 | |
| Acrylamide | 79-06-1 | 0.01000 | 0.00000 | |
| Nitrated acetate salt | Proprietary | 0.01000 | 0.00000 | |
| C.I. pigment Orange 5 | 3468-63-1 | 1.00000 | 0.00000 | |

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water
 *** Information is based on the maximum potential for concentration and thus the total may be over 100%
 *** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)







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State of West Virginia Department of Environmental Protection - Office of Oil and Gas Discharge Monitoring Report Oil and Gas General Permit

| Antero Re | sources Corpo | pration | | | | |
|--------------|--|--|--|---|---|--|
| 47-095-02 | 2712 | | | Count | y: | Tyler |
| Union /Meade | | | | - | Mills Unit 2H | |
| Elizabeth | Gorrell | | | | | |
| rom:(MN | ADDYY) 07 | /13/21 | | To: (N | /MC | DYY) 08/12/21 |
| rom: 0 | :00 | | | | | · |
| Dispose | d from this f | facility (gallo | ons): | 1,030,7 | 780 | |
| Utilized | (write volum | les in gallons | s): | | | |
| ion: 🦉 | 0 | | (Include | a topog | raph | ical map of the Area.) |
| | 1087 | | Permit N | lo. | 340092 | 23821, 3400923823, 3400923824 |
| al: | 0 | | Site Loca | ation: | | |
| | 1,029,692 | | Alternate | e Permi | t Nu | mber: |
| cility: | 0 | | | | | |
| (| 0 | | (Include | an expl | anat | ion) |
| below to | o determine y | our treatmen | nt category | v: | | , |
| nent test: | N/A | | N/A | | mg/l | |
| permissio | on to use exp | | ent from | | | |
|] | If yes, who? | N/A | | | | place a four (4) on line 7. |
| ne 2 | | | | | | |
| id or flov | vback put int | o the pit? (Y | /N) <u>N/A</u> |] | If yes | s, go to line 5. If not, go to |
| | | | | | | |
| | e value pretre | eatment (see | above)? (| (Y/N) | N/A | If yes, go to line 4 |
| | .1 | 110 (marka) | | | | |
| | | | | _ If y | | hen enter a one (1) on line 7. |
| | | or DO? (See | above) (Y | Y/N) | N/A | If yes, go to line 6 |
| | | /10/37/NT) NU | • | 10 | | |
| | | /1?(Y/N) N/ | Α | lf y | /es, e | enter a two (2) on line 7. If |
| | | Tion the A | | | | |
| ie calego | ry of your pit | \therefore Use the A | | e sectioi | a. | |
| | ndition N | I/A no nit on a | ito | | | |
| on Pit co | ondition: <u>N</u> | I/A no pit on s | ite | | | |
| | 47-095-02 Union /Me Elizabeth rom: (MN From: 0 e Dispose Utilized ion: 0 e Dispose Ione 2 id or flow a chlorid ine 5. le level le a pretrea i three (3) e le greater uree (3) o | 47-095-02712 Union /Meade Elizabeth Gorrell rom:(MMDDYY) 07 From: 0:00 e Disposed from this f Utilized (write volum ion: 0 1087 sal: 0 1,029,692 acility: 0 5 below to determine y ment test: N/A permission to use expo If yes, who? ne 2 id or flowback put int a chloride value pretro ine 5. le level less than 5000 a pretreatment value f a three (3) in line 7. rel greater than 2.5 mg uree (3) on line 7. | Union /Meade Elizabeth Gorrell rom: (MMDDYY) 07/13/21 From: 0:00 e Disposed from this facility (gallo Utilized (write volumes in gallons ion: 0 1087 sal: 0 1,029,692 acility: 0 5 below to determine your treatment ment test: N/A Cl- mg/l permission to use expedited treatment If yes, who? N/A ne 2 id or flowback put into the pit? (Y a chloride value pretreatment (see ine 5. le level less than 5000 mg/l? (Y/N) a pretreatment value for DO? (See a three (3) in line 7. el greater than 2.5 mg/l?(Y/N) N/ pres (3) on line 7. | 47-095-02712 Union /Meade Elizabeth Gorrell rom: (MMDDYY) $07/13/21$ From: $0:00$ e Disposed from this facility (gallons): Utilized (write volumes in gallons): ion: 0 1087 Permit N sal: 0 0 Include 1,029,692 Alternate acility: 0 0 Include s below to determine your treatment categor nent test: N/A permission to use expedited treatment from If yes, who? N/A ne 2 id or flowback put into the pit? (Y/N) id or flowback put into the pit? (Y/N) N/A a chloride value pretreatment (see above)? (ine 5. le level less than 5000 mg/l? (Y/N) N/A a pretreatment value for DO? (See above) (0 three (3) in line 7. el greater than 2.5 mg/l?(Y/N) el greater than 2.5 mg/l?(Y/N) N/A uree (3) on line 7. Image: Present test in the form | 47-095-02712CountUnion /MeadeWell NElizabeth GorrellWell Nrom: (MMDDYY) $07/13/21$ To: (Nrom: 0:00To: 2e Disposed from this facility (gallons): $1,030,7$ Utilized (write volumes in gallons): $1,030,7$ ion:0(Include a topog 1087 Permit No.sal:0Site Location: $1,029,692$ Alternate Permitacility:0(Include an expls below to determine your treatment category:nent test:N/ACl- mg/lN/Ane 2id or flowback put into the pit? (Y/N)N/Aa chloride value pretreatment (see above)? (Y/N)in e 5.le level less than 5000 mg/l? (Y/N)N/AIf ya pretreatment value for DO? (See above) (Y/N)in three (3) in line 7.el greater than 2.5 mg/l?(Y/N)N/AIf yuree (3) on line 7.If y | 47-095-02712County: Well No:Union /MeadeWell No:Elizabeth GorrellTo: (MMD To: 24:00rom: (MMDDYY)07/13/21To: (MMD To: 24:00From:0:00To: 24:00e Disposed from this facility (gallons):1,030,780Utilized (write volumes in gallons):1,030,780utilized (write volumes in gallons):1,030,780ion:0(Include a topograph 10871087Permit No.340092sal:0Site Location:1,029,692Alternate Permit Nu Inclity:oPermit No.s below to determine your treatment category: nent test:N/Ao(Include an explanat s below to determine your treatment from the Director If yes, who?N/Anent test:N/ACl- mg/lN/Aand ne 2id or flowback put into the pit?(Y/N)N/Ain e 5.If yes, the a pretreatment value for DO?If yes, the a pretreatment value for DO?le level less than 5000 mg/l?N/AIf yes, the a pretreatment value for DO?a pretreatment value for DO?See above)(Y/N)N/AIf yes, endIf yes, endu three (3) in line 7.If yes, of the pretreatment the pretreatment the a pretreatment value for DO?If yes, end |

 Title of Officer:
 Director, Environmental and Regulatory Compliance

 Date Completed:
 10/27/21

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Gretchen Kohler

Signature of a Principal Exec. Officer or Authorized agent.

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Category 1 Sampling Results API No :

| | Predischarge | | Disc | | |
|--------------------|-----------------|--------------|---------|----------|---------|
| Parameter | Limits | Reported | Limits | Reported | Units |
| pH | 6-10 | | 6-10 | | S.U |
| Settling Time | 5 | | N/A | N/A | Days |
| Fe | 6 | | 6 | | mg/l |
| D.O. | 2.5 | | 2.5 | | mg/l |
| Settleable Sol. | 0.5 | | 0.5 | | mg/l |
| Cl | 5,000 | | 5,000 | | mg/1 |
| Oil | Trace | | Trace | | Obs. |
| TOC** | | | Monitor | | mg/l |
| Oil and Grease | | | Monitor | | mg/1 |
| Total Al*** | | | Monitor | | mg/l |
| TSS | | | Monitor | | mg/l |
| Total Mn | Monitor | | Monitor | | mg/l |
| Volume | | | Monitor | | Gal |
| Flow | | | Monitor | | Gal/min |
| Disposal Area | | | Monitor | | Acres |
| *** Al is only rep | orted if the pH | is above 9.0 | | | |

Category 2 Sampling Results

API No :

| | Predischarge | | Disc | | |
|-------------------|------------------|-----------|---------|----------|---------|
| Parameter | Limits | Reported | Limits | Reported | Units |
| pH | 6-10 | | 6-10 | | S.U |
| Settling Time | 10 | | N/A | N/A | Days |
| Fe | 6 | | 6 | | mg/l |
| D.O. | 2.5 | | 2.5 | | mg/l |
| Settleable Sol. | 0.5 | | 0.5 | | mg/l |
| Cl* | 12,500 | | 12,500 | | mg/l |
| Oil | Trace | | Trace | | Obs. |
| TOC** | | | Monitor | | mg/l |
| Oil and Grease | | | Monitor | | mg/l |
| Total Al*** | | | Monitor | | mg/l |
| TSS | | | Monitor | | mg/l |
| Total Mn | Monitor | | Monitor | | mg/l |
| Volume | | | Monitor | | Gal |
| Flow | | | Monitor | | Gal/min |
| Disposal Area | | | Monitor | | Acres |
| * Can be 25,000 v | vith inspector's | approval, | | | |

(Inspector's signature): ** Include a description of your aeration technique. *** Al is only reported if the pH is above 9.0

Date:

Aeration Code:

12/31/2021

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Category 3 Sampling Results API No :

| | Predis | scharge | Disc | harge | |
|-------------------|------------------|-----------|---------|----------|---------|
| Parameter | Limits | Reported | Limits | Reported | Units |
| pH | 6-10 | | 6-10 | | S.U |
| Settling Time | 20 | | N/A | N/A | Days |
| Fe | 6 | | 6 | | mg/l |
| D.O. | 2.5 | | 2.5 | | mg/1 |
| Settleable Sol. | 0.5 | | 0.5 | | mg/l |
| C1* | 12,500 | | 12,500 | | mg/l |
| Oil | Trace | | Trace | | Obs. |
| TOC** | | | Monitor | · | mg/l |
| Oil and Grease | | | Monitor | | mg/l |
| Total Al*** | | | Monitor | | mg/l |
| TSS | | | Monitor | | mg/l |
| Total Mn | Monitor | | Monitor | | mg/l |
| Volume | | | Monitor | | Gal |
| Flow | | | Monitor | | Gal/min |
| Disposal Area | | , | Monitor | | Acres |
| * Can be 25,000 v | with inspector's | approval, | womto | | ALICS |

| (Inspector's signature): | Date: |
|--|----------------|
| ** Include a description of your aeration technique. | Aeration Code: |
| *** Al is only reported if the pH is above 9.0. | 8 |

Category 4 Sampling Results API No:

| | Predis | charge | Disc | harge | |
|-----------------------|---------------|-----------|---------|----------|-------------------|
| Parameter | Limits | Reported | Limits | Reported | Units |
| pH | 6-10 | | 6-10 | - | S.U |
| Settling Time | 1 | | N/A | N/A | Days |
| Fe | Monitor | | Monitor | | mg/l |
| D.O. | Monitor | | Monitor | | mg/l |
| Settleable Sol. | Monitor | | Monitor | | mg/l |
| Cl* | 12,500 | | 12,500 | · | mg/l |
| Oil | Trace | | Trace | | Obs. |
| TOC** | | | Monitor | | mg/l |
| Oil and Grease | | | Monitor | | mg/l |
| TSS | | | Monitor | | mg/l |
| Total Mn | Monitor | | Monitor | | mg/l |
| Volume | | | Monitor | | Gal |
| Flow | | | Monitor | | Gal/min |
| Activated Carbon (0.1 | 75) | | N/A | N/A | lb/Bl |
| Date Site Reclaimed | N/A | N/A | IVA | 19/74 | |
| Disposal Area | 14/21 | 10/71 | Monitor | | 10 days from dis. |
| • | h increator's | | wonnor | | Acres |
| * Can be 25,000 wit | n inspector's | approvai, | | | |
| | | | | | |

(Inspector's signature):

Date: