

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

API 47-095-02869 County ~~Wetzel~~ Tyler District ~~Green~~ Ellsworth
Quad Porter Falls 7.5' Pad Name Big Run Field/Pool Name -----
Farm name Antero Resources Corporation Well Number Presley Unit 1H
Operator (as registered with the OOG) Antero Resources Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4378366m Easting 515570m
Landing Point of Curve Northing 515636.72m Easting 4378276.35m
Bottom Hole Northing 4384068m Easting 513663m

Elevation (ft) 1250' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other -----
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other -----
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Air - Foam & 4% KCL
Mud - Polymer

Date permit issued 9/5/2023 Date drilling commenced 9/8/2023 Date drilling ceased 11/28/2023
Date completion activities began 2/23/2024 Date completion activities ceased 5/11/2024
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 31' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 2311' Void(s) encountered (Y/N) depths No
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by: [Signature]
APPROVED
11/08/2024

WR-35
Rev. 8/23/13

API 47- 095 - 02869

Farm name Antero Resources Corporation Well number Presley Unit 1H

| CASING STRINGS | Hole Size | Casing Size | Depth | New or Used | Grade wt/ft | Basket Depth(s) | Did cement circulate (Y/N) * Provide details below* |
|---------------------------|----------------|-------------|--------|-------------|--------------|-----------------|--|
| Conductor | 28" | 20" | 130' | New | 91.59#, J-55 | N/A | Y |
| Surface | 17-1/2" | 13-3/8" | 378' | New | 54.5#, J-55 | N/A | Y |
| Coal | | | | | | | |
| Intermediate 1 | 12-1/4" | 9-5/8" | 3546' | New | 36#, J-55 | N/A | Y |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8-3/4" /8-1/2" | 5-1/2" | 27660' | New | 23#, P-110 | N/A | Y |
| Tubing | | 2-3/8" | 7134' | | 4.7#, J-55 | | |
| Packer type and depth set | | N/A | | | | | |

Comment Details _____

| CEMENT DATA | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft ³ /sks) | Volume (ft ³) | Cement Top (MD) | WOC (hrs) |
|----------------|----------------------|-----------------|----------------------------|------------------------------|---------------------------|--------------------------------|-----------|
| Conductor | Class A | 215 sx | 15.6 | 1.18 | 254 | 0' | 8 Hrs. |
| Surface | Class A | 330 sx | 15.8 | 1.17 | 386 | 0' | 8 Hrs. |
| Coal | | | | | | | |
| Intermediate 1 | Class A | 1251 sx | 15.8 | 1.16 | 1451 | 0' | 8 Hrs. |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | Class H | 4730 sx (Tail) | 13.5 (Spacer), 15.2 (Lead) | 1.35 (Tail) | 6386 | -500' into Intermediate Casing | 8 Hrs. |
| Tubing | | | | | | | |

Drillers TD (ft) 27660' MD, 6804' TVD (BHL), 6852' TVD (Deepest Point Drilled) Loggers TD (ft) 27660' MD

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5432'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Conductor - 0
 Surface - 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface
 Intermediate - 1 above float joint, 1 above float collar, 1 every 4th joint to surface
 Production - 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED N/A

11/08/2024

WR-35
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API 47- 095 - 02869

Farm name Antero Resources Corporation Well number Presley Unit 1H

PRODUCING FORMATION(S)

DEPTHS

Marcellus

6794' (TOP) TVD 7307' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 16148.88 mcfpd Oil 922.18 bpd NGL _____ bpd Water 1263.82 bpd GAS MEASURED BY Estimated Orifice Pilot

| LITHOLOGY/ FORMATION | TOP | BOTTOM | TOP | BOTTOM | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|-------------------------|-------------------------|--------------------|-------------------|-------------------|--|
| | DEPTH IN FT NAME TVD | DEPTH IN FT TVD | DEPTH IN FT MD | DEPTH IN FT MD | |

***PLEASE SEE ATTACHED EXHIBIT 3**

| | | | | | |
|--|--|--|--|--|--|
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| | | | | | |

Please insert additional pages as applicable.

Drilling Contractor H & P Drilling
Address 912 N Eagle Valley Rd City Howard State PA Zip 16841

Logging Company Nine Energy Services
Address 6500 West Fwy City Fort Worth State TX Zip 76116

Cementing Company Halliburton Energy Services
Address 3000 N Sam Houston Pkwy E City Houston State TX Zip 77032

Stimulating Company Halliburton
Address 3000 N Sam Houston Pkwy E. City Houston State TX Zip 77032

Please insert additional pages as applicable.

Completed by Stefan Gaspar Telephone 303-357-6959
Signature _____ Title Permitting Agent Date _____

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

11/08/2024



EXHIBIT 1

| Stage No. | Perforation Date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formations |
|-----------|------------------|------------------------|----------------------|------------------------|------------|
| 1 | 2/23/2024 | 27544.00 | 27501.00 | 36 | Marcellus |
| 2 | 2/24/2024 | 27462.77 | 27298.60 | 36 | Marcellus |
| 3 | 2/24/2024 | 27263.37 | 27099.21 | 36 | Marcellus |
| 4 | 2/25/2024 | 27063.98 | 26899.81 | 36 | Marcellus |
| 5 | 2/25/2024 | 26864.58 | 26700.42 | 36 | Marcellus |
| 6 | 2/26/2024 | 26665.18 | 26501.02 | 36 | Marcellus |
| 7 | 2/27/2024 | 26465.79 | 26301.62 | 36 | Marcellus |
| 8 | 2/27/2024 | 26266.39 | 26102.23 | 36 | Marcellus |
| 9 | 2/28/2024 | 26067.00 | 25902.83 | 36 | Marcellus |
| 10 | 2/29/2024 | 25867.60 | 25703.44 | 36 | Marcellus |
| 11 | 2/29/2024 | 25668.20 | 25504.04 | 36 | Marcellus |
| 12 | 3/1/2024 | 25468.81 | 25304.64 | 36 | Marcellus |
| 13 | 3/2/2024 | 25269.41 | 25105.25 | 36 | Marcellus |
| 14 | 3/2/2024 | 25070.01 | 24905.85 | 36 | Marcellus |
| 15 | 3/3/2024 | 24870.62 | 24706.46 | 36 | Marcellus |
| 16 | 3/3/2024 | 24671.22 | 24507.06 | 36 | Marcellus |
| 17 | 3/4/2024 | 24471.83 | 24307.66 | 36 | Marcellus |
| 18 | 3/4/2024 | 24272.43 | 24108.27 | 36 | Marcellus |
| 19 | 3/5/2024 | 24073.03 | 23908.87 | 36 | Marcellus |
| 20 | 3/5/2024 | 23873.64 | 23709.48 | 36 | Marcellus |
| 21 | 3/6/2024 | 23674.24 | 23510.08 | 36 | Marcellus |
| 22 | 3/6/2024 | 23474.85 | 23310.68 | 36 | Marcellus |
| 23 | 3/7/2024 | 23275.45 | 23111.29 | 36 | Marcellus |
| 24 | 3/7/2024 | 23076.05 | 22911.89 | 36 | Marcellus |
| 25 | 3/8/2024 | 22876.66 | 22712.50 | 36 | Marcellus |
| 26 | 3/9/2024 | 22677.26 | 22513.10 | 36 | Marcellus |
| 27 | 3/9/2024 | 22477.87 | 22313.70 | 36 | Marcellus |
| 28 | 3/10/2024 | 22278.47 | 22114.31 | 36 | Marcellus |
| 29 | 3/10/2024 | 22079.07 | 21914.91 | 36 | Marcellus |
| 30 | 3/11/2024 | 21879.68 | 21715.51 | 36 | Marcellus |
| 31 | 3/11/2024 | 21680.28 | 21516.12 | 36 | Marcellus |
| 32 | 3/12/2024 | 21480.89 | 21316.72 | 36 | Marcellus |
| 33 | 3/12/2024 | 21281.49 | 21117.33 | 36 | Marcellus |
| 34 | 3/13/2024 | 21082.09 | 20917.93 | 36 | Marcellus |
| 35 | 3/13/2024 | 20882.70 | 20718.53 | 36 | Marcellus |
| 36 | 3/14/2024 | 20683.30 | 20519.14 | 36 | Marcellus |
| 37 | 3/15/2024 | 20483.91 | 20319.74 | 36 | Marcellus |
| 38 | 3/15/2024 | 20284.51 | 20120.35 | 36 | Marcellus |
| 39 | 3/15/2024 | 20085.11 | 19920.95 | 36 | Marcellus |
| 40 | 3/15/2024 | 19885.72 | 19721.55 | 36 | Marcellus |
| 41 | 3/16/2024 | 19686.32 | 19522.16 | 36 | Marcellus |
| 42 | 3/16/2024 | 19486.93 | 19322.76 | 36 | Marcellus |
| 43 | 3/16/2024 | 19287.53 | 19123.37 | 36 | Marcellus |
| 44 | 3/17/2024 | 19088.13 | 18923.97 | 36 | Marcellus |
| 45 | 3/17/2024 | 18888.74 | 18724.57 | 36 | Marcellus |
| 46 | 3/17/2024 | 18689.34 | 18525.18 | 36 | Marcellus |
| 47 | 3/18/2024 | 18489.95 | 18325.78 | 36 | Marcellus |
| 48 | 3/18/2024 | 18290.55 | 18126.39 | 36 | Marcellus |
| 49 | 3/18/2024 | 18091.15 | 17926.99 | 36 | Marcellus |
| 50 | 3/19/2024 | 17891.76 | 17727.59 | 36 | Marcellus |
| 51 | 3/19/2024 | 17692.36 | 17528.20 | 36 | Marcellus |
| 52 | 3/19/2024 | 17492.97 | 17328.80 | 36 | Marcellus |
| 53 | 3/20/2024 | 17293.57 | 17129.41 | 36 | Marcellus |
| 54 | 3/20/2024 | 17094.17 | 16930.01 | 36 | Marcellus |
| 55 | 3/21/2024 | 16894.78 | 16730.61 | 36 | Marcellus |
| 56 | 3/21/2024 | 16695.38 | 16531.22 | 36 | Marcellus |
| 57 | 3/21/2024 | 16495.99 | 16331.82 | 36 | Marcellus |
| 58 | 3/22/2024 | 16296.59 | 16132.43 | 36 | Marcellus |
| 59 | 3/22/2024 | 16097.19 | 15933.03 | 36 | Marcellus |
| 60 | 3/22/2024 | 15897.80 | 15733.63 | 36 | Marcellus |
| 61 | 3/22/2024 | 15698.40 | 15534.24 | 36 | Marcellus |
| 62 | 3/23/2024 | 15499.00 | 15334.84 | 36 | Marcellus |
| 63 | 3/23/2024 | 15299.61 | 15135.45 | 36 | Marcellus |
| 64 | 3/24/2024 | 15100.21 | 14936.05 | 36 | Marcellus |
| 65 | 3/24/2024 | 14900.82 | 14736.65 | 36 | Marcellus |
| 66 | 3/24/2024 | 14701.42 | 14537.26 | 36 | Marcellus |
| 67 | 3/24/2024 | 14502.02 | 14337.86 | 36 | Marcellus |
| 68 | 3/25/2024 | 14302.63 | 14138.47 | 36 | Marcellus |
| 69 | 3/25/2024 | 14103.23 | 13939.07 | 36 | Marcellus |
| 70 | 3/25/2024 | 13903.84 | 13739.67 | 36 | Marcellus |
| 71 | 3/26/2024 | 13704.44 | 13540.28 | 36 | Marcellus |
| 72 | 3/26/2024 | 13505.04 | 13340.88 | 36 | Marcellus |
| 73 | 3/26/2024 | 13305.65 | 13141.49 | 36 | Marcellus |
| 74 | 3/27/2024 | 13106.25 | 12942.09 | 36 | Marcellus |
| 75 | 3/27/2024 | 12906.86 | 12742.69 | 36 | Marcellus |
| 76 | 3/27/2024 | 12707.46 | 12543.30 | 36 | Marcellus |
| 77 | 3/27/2024 | 12508.06 | 12343.90 | 36 | Marcellus |
| 78 | 3/28/2024 | 12308.67 | 12144.50 | 36 | Marcellus |
| 79 | 3/28/2024 | 12109.27 | 11945.11 | 36 | Marcellus |
| 80 | 3/28/2024 | 11909.88 | 11745.71 | 36 | Marcellus |
| 81 | 3/29/2024 | 11710.48 | 11546.32 | 36 | Marcellus |
| 82 | 3/29/2024 | 11511.08 | 11346.92 | 36 | Marcellus |
| 83 | 3/29/2024 | 11311.69 | 11147.52 | 36 | Marcellus |
| 84 | 3/30/2024 | 11112.29 | 10948.13 | 36 | Marcellus |
| 85 | 3/30/2024 | 10912.90 | 10748.73 | 36 | Marcellus |
| 86 | 3/30/2024 | 10713.50 | 10549.34 | 36 | Marcellus |
| 87 | 3/30/2024 | 10514.10 | 10349.94 | 36 | Marcellus |
| 88 | 3/31/2024 | 10314.71 | 10150.54 | 36 | Marcellus |
| 89 | 3/31/2024 | 10115.31 | 9951.15 | 36 | Marcellus |
| 90 | 3/31/2024 | 9915.92 | 9751.75 | 36 | Marcellus |
| 91 | 3/31/2024 | 9716.52 | 9552.36 | 36 | Marcellus |
| 92 | 4/1/2024 | 9517.12 | 9352.96 | 36 | Marcellus |
| 93 | 4/1/2024 | 9317.73 | 9153.56 | 36 | Marcellus |
| 94 | 4/1/2024 | 9118.33 | 8954.17 | 36 | Marcellus |
| 95 | 4/2/2024 | 8918.94 | 8754.77 | 36 | Marcellus |
| 96 | 4/2/2024 | 8719.54 | 8555.38 | 36 | Marcellus |
| 97 | 4/2/2024 | 8520.14 | 8355.98 | 36 | Marcellus |
| 98 | 4/2/2024 | 8320.75 | 8156.58 | 36 | Marcellus |
| 99 | 4/3/2024 | 8121.35 | 7957.19 | 36 | Marcellus |
| 100 | 4/3/2024 | 7921.96 | 7757.79 | 36 | Marcellus |
| 101 | 4/3/2024 | 7722.56 | 7558.40 | 36 | Marcellus |
| 102 | 4/3/2024 | 7523.16 | 7359.00 | 36 | Marcellus |

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Office of Oil and Gas
JUL 29 2024
WV Department of
Environmental Protection

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EXHIBIT 3

| LITHOLOGY/ FORMATION | TOP DEPTH (TVD) | BOTTOM DEPTH (TVD) | TOP DEPTH (MD) | BOTTOM DEPTH (MD) |
|---------------------------|-----------------|--------------------|----------------|-------------------|
| | From Surface | From Surface | From Surface | From Surface |
| Sandstone | 70 | 470 | 70 | 470 |
| Sandy Siltstone | 470 | 720 | 470 | 720 |
| Siltstone, occ Sandstone | 720 | 820 | 720 | 820 |
| Siltstone, rr Limestone | 820 | 870 | 820 | 870 |
| Siltstone, occ Sandstone | 870 | 1,170 | 870 | 1,170 |
| Shaly Siltstone, occ LS | 1,170 | 1,270 | 1,170 | 1,270 |
| Siltstone, rr SH, rr Coal | 1,270 | 1,470 | 1,270 | 1,470 |
| Shaly Siltstone | 1,470 | 1,620 | 1,470 | 1,620 |
| Shaly Sandstone | 1,620 | 1,670 | 1,620 | 1,670 |
| Silty, Shaly, Sandstone | 1,670 | 1,920 | 1,670 | 1,920 |
| Silty Sandstone, Tr Coal | 1,920 | 1,970 | 1,920 | 1,970 |
| Silty Sandstone | 1,970 | 2,070 | 1,970 | 2,070 |
| Silty Sandstone, calc cmt | 2,070 | 2,122 | 2,070 | 2,170 |
| Big Lime | 2,152 | 2,862 | 2,200 | 2,939 |
| Fifty Foot Sandstone | 2,862 | 3,005 | 2,939 | 3,087 |
| Gordon | 3,005 | 3,245 | 3,087 | 3,337 |
| Fifth Sandstone | 3,245 | 3,287 | 3,337 | 3,380 |
| Bayard | 3,287 | 4,151 | 3,380 | 4,284 |
| Speechley | 4,151 | 4,383 | 4,284 | 4,525 |
| Balltown | 4,383 | 4,915 | 4,525 | 5,082 |
| Bradford | 4,915 | 5,173 | 5,082 | 5,354 |
| Benson | 5,173 | 5,513 | 5,354 | 5,705 |
| Alexander | 5,513 | 6,645 | 5,705 | 6,977 |
| Sycamore | 6,506 | 6,615 | 6,804 | 6,947 |
| Middlesex | 6,615 | 6,710 | 6,947 | 7,098 |
| Burkett | 6,710 | 6,727 | 7,098 | 7,133 |
| Tully | 6,727 | 6,794 | 7,133 | 7,307 |
| Marcellus | 6794 | NA | 7307 | NA |

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LATITUDE 39°35'00"

7,690'

LATITUDE 39°37'30"

2,166' TO BOTTOM HOLE

Antero Resources Corporation Well No. Presley #1H

AS DRILLED DATA: WELL 1H TOP HOLE INFORMATION: N: 386,895ft E: 1,628,118ft LAT: 39°33'17.13" LON: 80°49'08.19" BOTTOM HOLE INFORMATION: N: 405,709ft E: 1,621,173ft LAT: 39°36'22.20" LON: 80°50'27.67" WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 4,378,366m E: 515,570m BOTTOM HOLE INFORMATION: N: 4,384,068m E: 513,663m

(NAD) 27 (UTM) ZONE 17 COORDS: WELL 1H TOP HOLE INFORMATION: N: 14,363,974ft E: 1,691,452ft POINT OF ENTRY INFORMATION: N: 14,363,474ft E: 1,691,800ft BOTTOM HOLE INFORMATION: N: 14,382,680ft E: 1,685,195ft

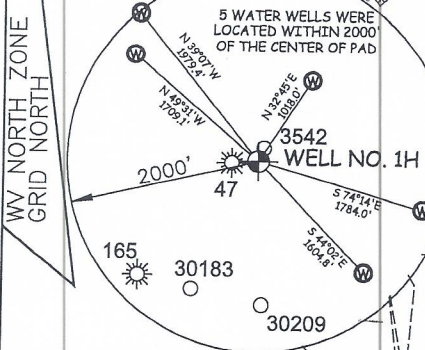
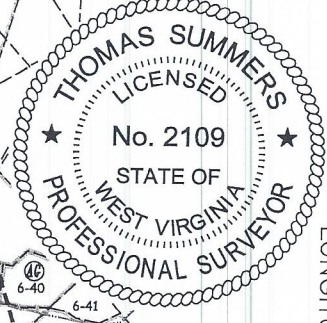


Table listing property owners and their addresses in the Magnolia District, Green District, and Ellsworth District. Includes names like Barbara McAdams, Jacob Morgan, and M/B Investments.

NOT TO SCALE

PAD LAYOUT

NOTE: 1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

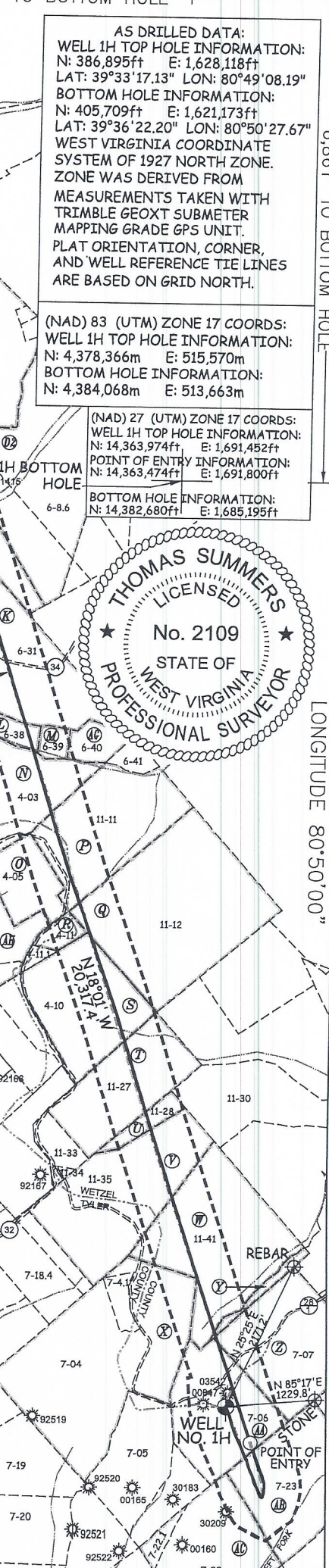


STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS. WILLOW LAND SURVEYING PLLC, 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 21-011WA, DRAWING # PRESLEY1HAD, SCALE 1" = 2000', MINIMUM DEGREE OF ACCURACY SUBMETER, PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS, STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND: Surface Owner Boundary Lines +/-, Interior Surface Tracts +/-, Proposed Well Path, As Drilled Well Path. OPERATOR'S WELL# PRESLEY UNIT #1H, DATE 07/15/24, 47 - 095 - 02869, STATE COUNTY PERMIT

Table listing various mineral rights owners and their interests, including M/B INVESTMENTS, MICHOPOLIS, INC., and others.



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X. LOCATION: ELEVATION AS BUILT - 1250.0' WATERSHED OUTLET MIDDLE ISLAND CREEK QUADRANGLE PORTER FALLS 7.5' DISTRICT ELLSWORTH COUNTY TYLER. SURFACE OWNER ANTERO RESOURCES CORPORATION ACREAGE 50 ACRES +/- OIL & GAS ROYALTY OWNER MARY E. MIDCAP LEASE ACREAGE 50 ACRES+ PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,804' TVD 27,660' MD WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT KEVIN ELLIS ADDRESS 1615 WYNKOOP ST. ADDRESS 535 WHITE OAK BLVD. BRIDGEPORT, WV 26330

11/08/2024

Hydraulic Fracturing Fluid Product Component Information Disclosure



| | |
|---------------------------------|------------------------------|
| Job Start Date: | 02/23/2024 |
| Job End Date: | 04/03/2024 |
| State: | West Virginia |
| County: | Tyler |
| API Number: | 47-095-02869-00-00 |
| Operator Name: | Antero Resources Corporation |
| Well Name and Number: | PRESLEY UNIT 1H |
| Latitude: | 39.5547 |
| Longitude: | -80.8188 |
| Datum: | NAD27 |
| Federal Well: | NO |
| Indian Well: | NO |
| True Vertical Depth: | 6852 |
| Total Base Water Volume (gal)*: | 32111310.999999996 |
| Total Base Non Water Volume: | 0 |

| Water Source | Percent |
|----------------|---------|
| Produced Water | 100.00% |

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 |
|------------------------------------|-------------|--------------------------|-------------|--|--|--|--|
| Excelerate LX-21 | Halliburton | Friction Reducer | | | | | |
| FDP-S1470-23 | Halliburton | Friction Reducer | | | | | |
| FDP-S1489-23 | Halliburton | Friction Reducer | | | | | |
| HAI-501 | Halliburton | Acid Corrosion Inhibitor | | | | | RECEIVED Office of Oil and Gas JUL 29 2024 |
| HYDROCHLORIC ACID, 22 BAUME | Halliburton | Solvent | | | | | WV Department of Environmental Protection |
| MC B-8614A | MultiChem | Biocide | | | | | |
| OPTIFLO-II DELAYED RELEASE BREAKER | Halliburton | Breaker | | | | | |
| Produced Water (Density 10.0) | Operator | Base Fluid | | | | | |
| Sand-Common White-100 Mesh, | Halliburton | Proppant | | | | | |

11/08/2024

| | | | | | | | |
|--|-------------|---------------|---|-------------|-----------|----------|------|
| SSA-2 | | | | | | | |
| WG-36 GELLING AGENT | Halliburton | Gelling Agent | | | | | |
| Items above are Trade Names. Items below are the individual ingredients. | | | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 88.24064 | None |
| | | | Crystalline silica, quartz | 14808-60-7 | 100.00000 | 11.59049 | None |
| | | | Water | 7732-18-5 | 100.00000 | 0.14458 | None |
| | | | Hydrochloric acid | 7647-01-0 | 30.00000 | 0.03263 | None |
| | | | Complex amine compound | Proprietary | 60.00000 | 0.02926 | None |
| | | | Hydrotreated distillate | Proprietary | 30.00000 | 0.01364 | None |
| | | | Guar gum | 9000-30-0 | 100.00000 | 0.00345 | None |
| | | | Ethoxylated alcohol | Proprietary | 5.00000 | 0.00244 | None |
| | | | Ammonium chloride | 12125-02-9 | 5.00000 | 0.00230 | None |
| | | | Fatty nitrogen derived amides | Proprietary | 5.00000 | 0.00227 | None |
| | | | Glutaraldehyde | 111-30-8 | 30.00000 | 0.00212 | None |
| | | | Petroleum distillate | Proprietary | 30.00000 | 0.00099 | None |
| | | | Sorbitan, mono-9-octadecenoate, (Z) | 1338-43-8 | 1.00000 | 0.00046 | None |
| | | | Sorbitan monooleate polyoxyethylene derivative | 9005-65-6 | 1.00000 | 0.00046 | None |
| | | | Alkyl (C12-16) dimethylbenzyl ammonium chloride | 68424-85-1 | 5.00000 | 0.00035 | None |
| | | | Ethanaminium, N,N,N-trimethyl-2-(1-oxo-2-propen-1-yl)oxy-, chloride (1:1), polymer with 2-propenamide | 69418-26-4 | 60.00000 | 0.00033 | None |
| | | | Methanol | 67-56-1 | 100.00000 | 0.00020 | None |
| | | | Sodium chloride | 7647-14-5 | 5.00000 | 0.00017 | None |
| | | | Ethoxylated fatty acid | Proprietary | 5.00000 | 0.00017 | None |
| | | | Amide | Proprietary | 5.00000 | 0.00017 | None |
| | | | Hydrotreated light petroleum distillates | 64742-47-8 | 30.00000 | 0.00016 | None |
| | | | Ammonium persulfate | 7727-54-0 | 100.00000 | 0.00009 | None |
| | | | Ethanol | 64-17-5 | 1.00000 | 0.00007 | None |
| | | | Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil | 61790-12-3 | 30.00000 | 0.00006 | None |
| | | | Modified thiourea polymer | Proprietary | 30.00000 | 0.00006 | None |
| | | | Amides, tall-oil fatty, N,N-bis(hydroxyethyl) | 68155-20-4 | 5.00000 | 0.00003 | None |
| | | | Ethoxylated branched C13 | 78330-21-9 | 5.00000 | 0.00003 | None |

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| | | | | | | | |
|--|--|--|---|-------------|----------|---------|------|
| | | | alcohol | | | | |
| | | | Oxylated phenolic resin | Proprietary | 30.00000 | 0.00003 | None |
| | | | Propargyl alcohol | 107-19-7 | 5.00000 | 0.00001 | None |
| | | | Hexadecene | 629-73-2 | 5.00000 | 0.00001 | None |
| | | | Ethoxylated alcohols | Proprietary | 5.00000 | 0.00001 | None |
| | | | Diethanolamine | 111-42-2 | 0.10000 | 0.00000 | None |
| | | | Hydroquinone monomethyl ether | 150-76-5 | 0.10000 | 0.00000 | None |
| | | | Ethylenediaminetetraacetic acid, tetrasodium salt | 64-02-8 | 0.10000 | 0.00000 | None |
| | | | 1,2,4 Trimethylbenzene | 95-63-6 | 0.10000 | 0.00000 | None |
| | | | Inorganic acid salt | Proprietary | 0.10000 | 0.00000 | None |
| | | | Fatty acid ester | Proprietary | 0.10000 | 0.00000 | None |
| | | | C.I. pigment Orange 5 | 3468-63-1 | 1.00000 | 0.00000 | None |
| | | | Oleic acids | 112-80-1 | 0.01000 | 0.00000 | None |

* 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%

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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