

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

API 47-095-02813 County Tyler District Meade
Quad TH: Bens Run BH: Middlebourne Pad Name Wrigley Field/Pool Name -----
Farm name Shirley J. Wells & Suise Cunningham Well Number Martindill Unit PH
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 4363524.201m Easting 499386.981m
Landing Point of Curve Northing 4363371.32m Easting 499020.81m
Bottom Hole Northing 4359862.377m Easting 500297.512m

Elevation (ft) 937' 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 8/30/2022 Date drilling commenced 12/15/2022 Date drilling ceased 3/5/2023
Date completion activities began 4/20/2023 Date completion activities ceased 5/28/2023
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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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 397' Open mine(s) (Y/N) depths No WV Department of Environmental Protection
Salt water depth(s) ft 1436, 1847' 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:

APPROVED

[Signature]
12-11-23 02/09/2024

API 47-095 - 02813 Farm name Shirley J. Wells & Suisse Cunningham Well number Martindill Unit 2H

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"	618'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3350'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	19030'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	6274'		4.7#, P-110		
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	202 sx	15.6	1.18	238	0'	8 Hrs.
Surface	Class A	555 sx	15.8	1.16	644	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1146 sx	15.8	1.16	1329	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	2950 sx (Lead)	15.2	1.28 (Lead)	3776	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 19030' MD, 6201' TVD (BHL), 6201' (Deepest Point Drilled) Loggers TD (ft) 19030' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 5477'

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

02/09/2024


API 47-095 - 02813 Farm name Shirley J. Wells & Suise Cunningham Well number Martindill Unit 2H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
*PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

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API 47- 095 - 02813 Farm name Shirley J. Wells & Suisse Cunningham Well number Martindill Unit 2H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6037' (TOP) TVD</u>	<u>6460' (TOP) MD</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1969 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 14737 mcfpd Oil 233 bpd NGL --- bpd Water 1102 bpd GAS MEASURED BY Estimated Orifice Pilot

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

WV Department of Environmental Protection

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

Cementing Company Halliburton Energy Services
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Stimulating Company Halliburton
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114

Please insert additional pages as applicable.

Completed by Carly Marvel Telephone 303-357-7373
Signature Carly Marvel Title Permitting Agent Date 8/1/2023

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

02/09/2024

API 47-095-02813 Farm Name Shirley J. Wells & Sulse Cunningham Well Number Martindill Unit 1H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/20/2023	18912	18868	60	Marcellus
2	4/20/2023	18830.2459	18663.4754	60	Marcellus
3	4/21/2023	18627.72131	18460.9508	60	Marcellus
4	4/21/2023	18425.19672	18258.4262	60	Marcellus
5	4/21/2023	18222.67213	18055.9016	60	Marcellus
6	4/21/2023	18020.14754	17853.377	60	Marcellus
7	4/22/2023	17817.62295	17650.8525	60	Marcellus
8	4/22/2023	17615.09836	17448.3279	60	Marcellus
9	4/22/2023	17412.57377	17245.8033	60	Marcellus
10	4/22/2023	17210.04918	17043.2787	60	Marcellus
11	4/23/2023	17007.52459	16840.7541	60	Marcellus
12	4/23/2023	16805	16638.2295	60	Marcellus
13	4/24/2023	16602.47541	16435.7049	60	Marcellus
14	4/24/2023	16399.95082	16233.1803	60	Marcellus
15	4/24/2023	16197.42623	16030.6557	60	Marcellus
16	4/25/2023	15994.90164	15828.1311	60	Marcellus
17	4/25/2023	15792.37705	15625.6066	60	Marcellus
18	4/25/2023	15589.85246	15423.082	60	Marcellus
19	4/25/2023	15387.32787	15220.5574	60	Marcellus
20	4/26/2023	15184.80328	15018.0328	60	Marcellus
21	4/26/2023	14982.27869	14815.5082	60	Marcellus
22	4/26/2023	14779.7541	14612.9836	60	Marcellus
23	4/26/2023	14577.22951	14410.459	60	Marcellus
24	4/27/2023	14374.70492	14207.9344	60	Marcellus
25	4/27/2023	14172.18033	14005.4098	60	Marcellus
26	4/27/2023	13969.65574	13802.8852	60	Marcellus
27	4/27/2023	13767.13115	13600.3607	60	Marcellus
28	4/28/2023	13564.60656	13397.8361	60	Marcellus
29	4/28/2023	13362.08197	13195.3115	60	Marcellus
30	4/28/2023	13159.55738	12992.7869	60	Marcellus
31	4/29/2023	12957.03279	12790.2623	60	Marcellus
32	4/29/2023	12754.5082	12587.7377	60	Marcellus
33	4/29/2023	12551.98361	12385.2131	60	Marcellus
34	4/29/2023	12349.45902	12182.6885	60	Marcellus
35	4/30/2023	12146.93443	11980.1639	60	Marcellus
36	4/30/2023	11944.40984	11777.6393	60	Marcellus
37	4/30/2023	11741.88525	11575.1148	60	Marcellus
38	4/30/2023	11539.36066	11372.5902	60	Marcellus
39	5/1/2023	11336.83607	11170.0656	60	Marcellus
40	5/1/2023	11134.31148	10967.541	60	Marcellus
41	5/1/2023	10931.78689	10765.0164	60	Marcellus
42	5/1/2023	10729.2623	10562.4918	60	Marcellus
43	5/2/2023	10526.7377	10359.9672	60	Marcellus
44	5/2/2023	10324.21311	10157.4426	60	Marcellus
45	5/2/2023	10121.68852	9954.91803	60	Marcellus
46	5/3/2023	9919.163934	9752.39344	60	Marcellus
47	5/3/2023	9716.639344	9549.86885	60	Marcellus
48	5/3/2023	9514.114754	9347.34426	60	Marcellus
49	5/3/2023	9311.590164	9144.81967	60	Marcellus
50	5/4/2023	9109.065574	8942.29508	60	Marcellus
51	5/4/2023	8906.540984	8739.77049	60	Marcellus
52	5/4/2023	8704.016393	8537.2459	60	Marcellus
53	5/4/2023	8501.491803	8334.72131	60	Marcellus
54	5/4/2023	8298.967213	8132.19672	60	Marcellus
55	5/5/2023	8096.442623	7929.67213	60	Marcellus
56	5/5/2023	7893.918033	7727.14754	60	Marcellus
57	5/5/2023	7691.393443	7524.62295	60	Marcellus
58	5/5/2023	7488.868852	7322.09836	60	Marcellus
59	5/6/2023	7286.344262	7119.57377	60	Marcellus
60	5/6/2023	7083.819672	6917.04918	60	Marcellus
61	5/6/2023	6881.295082	6714.52459	60	Marcellus
62	5/6/2023	6678.770492	6512	60	Marcellus

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EXHIBIT 2

Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)
1	4/20/2023	75.5	8642	7304	3786	174840	4825.90762	N/A
2	4/20/2023	90.4	9163	5884	3948	396999	8005.20571	N/A
3	4/21/2023	92.8	9363	5401	4005	416460	7541.36286	N/A
4	4/21/2023	90.3	9457	5195	4021	398940	6950.81548	N/A
5	4/21/2023	89.1	9402	5077	3454	416580	7166.59024	N/A
6	4/21/2023	92.8	9682	5164	3613	419000	7075.22619	N/A
7	4/22/2023	90.6	9670	5372	3562	417470	7282.38	N/A
8	4/22/2023	90.0	9350	4940	3557	413720	7216.27881	N/A
9	4/22/2023	91.2	9595	5098	4257	415870	7139.94667	N/A
10	4/22/2023	93.1	9656	5285	3343	421660	7103.32595	N/A
11	4/23/2023	28.6	7393	5283	5395	21670	5827.88143	N/A
12	4/23/2023	87.7	8978	5081	3562	403850	6974.53548	N/A
13	4/24/2023	86.1	8993	5299	3704	416570	6982.93095	N/A
14	4/24/2023	87.2	8892	5050	4177	398900	6864.24214	N/A
15	4/24/2023	88.5	9088	5074	4532	415730	8336.74357	N/A
16	4/25/2023	82.0	8693	5968	3858	419850	7228.48381	N/A
17	4/25/2023	87.4	8923	5515	4326	417560	7141.25595	N/A
18	4/25/2023	84.4	8534	4910	4653	418680	7034.73119	N/A
19	4/25/2023	84.0	8116	4946	3982	415480	7292.4531	N/A
20	4/26/2023	84.1	8014	5272	3616	415740	7210.76738	N/A
21	4/26/2023	82.6	7809	5272	3787	418120	7222.04929	N/A
22	4/26/2023	83.6	8060	4871	3841	414040	7153.70619	N/A
23	4/26/2023	85.1	8137	5187	3985	412280	7288.89286	N/A
24	4/27/2023	86.5	7993	5146	4012	418510	7240.53286	N/A
25	4/27/2023	86.5	7874	5098	4031	417920	7091.33619	N/A
26	4/27/2023	85.9	7958	5173	4479	398970	6924.87571	N/A
27	4/27/2023	83.2	7662	5025	4205	396660	7107.9681	N/A
28	4/28/2023	84.2	7563	5551	4012	396080	7000.79143	N/A
29	4/28/2023	88.1	7891	5322	4870	415240	7047.69667	N/A
30	4/28/2023	89.0	7784	5369	4627	414170	7714.74476	N/A
31	4/29/2023	84.7	7416	5191	3963	411580	7555.31952	N/A
32	4/29/2023	83.3	7384	5084	4074	399840	6652.4219	N/A
33	4/29/2023	88.5	7620	3926	4373	399280	6910.49048	N/A
34	4/29/2023	88.9	7754	5379	3829	397140	6862.44357	N/A
35	4/30/2023	85.7	7328	5198	4241	412220	7489.10595	N/A
36	4/30/2023	83.7	7317	5278	3740	415196	6778.30952	N/A
37	4/30/2023	89.1	7510	3918	4146	415610	6791.71024	N/A
38	4/30/2023	83.0	7019	4649	3737	399010	6714.17095	N/A
39	5/1/2023	83.4	7092	5374	3714	417840	7001.10214	N/A
40	5/1/2023	90.0	7185	4978	3621	414880	6903.20071	N/A
41	5/1/2023	87.9	7305	4598	3902	399510	6782.93	N/A
42	5/1/2023	88.8	7315	5071	3602	396300	6925.12571	N/A
43	5/2/2023	85.8	7022	5542	3218	418750	6938.26762	N/A
44	5/2/2023	87.4	6950	5589	3625	410640	7029.97571	N/A
45	5/2/2023	86.4	7004	3317	3700	406410	6950.28	N/A
46	5/3/2023	87.0	6922	5601	3648	403360	6830.51048	N/A
47	5/3/2023	88.3	6712	3286	3447	412890	6856.54929	N/A
48	5/3/2023	88.6	6869	5498	3711	407260	7020.15095	N/A
49	5/3/2023	87.8	6889	5104	3936	407890	7082.75238	N/A
50	5/4/2023	87.5	7037	5347	3897	410570	6924.12357	N/A
51	5/4/2023	86.0	6936	3735	3796	411950	6946.27405	N/A
52	5/4/2023	92.8	7035	5258	3982	415390	6989.89286	N/A
53	5/4/2023	89.9	6945	4598	3810	419440	7021.77429	N/A
54	5/4/2023	89.2	6876	4326	3664	416950	6891.0231	N/A
55	5/5/2023	88.8	6854	5606	3979	412790	6924.24262	N/A
56	5/5/2023	90.2	7182	5378	3384	416740	6911.40833	N/A
57	5/5/2023	89.7	6519	4986	3511	418040	6952.71452	N/A
58	5/5/2023	85.4	6305	5401	3589	408030	6841.1669	N/A
59	5/6/2023	88.8	6560	5164	3693	403410	6794.03286	N/A
60	5/6/2023	90.5	6505	5064	3899	407800	6806.60095	N/A
61	5/6/2023	90.3	6456	5066	3567	413850	6817.42048	N/A
62	5/6/2023	89.0	6217	4820	3335	400670	6730.98024	N/A
AVERAGE		86	7,780	5,104	3,896	24,838,795	434,620	TOTAL

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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
Silty Sandstone	120	220	120	220
Sandy Siltstone	220	420	220	420
Sandstone, tr Siltstone	420	720	420	720
Sandy Siltstone	570	770	570	770
Sandstone	720	770	720	770
Sandstone, com LS	770	820	770	820
Silty Sandstone	820	870	820	870
Sandy Siltstone	870	1,070	870	1,070
Sandstone, rr Siltstone	1,070	1,370	1,070	1,370
Silty Sandstone, tr imb pyr	1,370	1,420	1,370	1,420
Silty Sandstone, com coal	1,420	1,570	1,420	1,570
Sandstone	1,570	1,620	1,570	1,620
Silty Sandstone	1,620	1,670	1,620	1,670
Sandstone, tr Coal	1,670	1,720	1,670	1,720
Silty Sandstone	1,720	1,764	1,720	1,786
Big Lime	1,794	2,520	1,786	2,582
Fifty Foot Sandstone	2,520	2,595	2,552	2,660
Gordon	2,595	2,803	2,630	2,877
Fifth Sandstone	2,803	3,178	2,847	3,268
Bayard	3,178	3,767	3,238	3,885
Speechley	3,767	4,077	3,855	4,213
Balltown	4,077	4,396	4,183	4,546
Bradford	4,396	4,686	4,516	4,849
Benson	4,686	5,008	4,819	5,187
Alexander	5,008	5,967	5,157	6,264
Sycamore	5,843	5,937	6,091	6,234
Middlesex	5,937	6,017	6,234	6,402
Burkett	6,017	6,037	6,402	6,460
Tully	N/A	N/A	N/A	N/A
Marcellus	6,037	N/A	6,460	N/A

*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.

02/09/2024

10,848' to Bottom Hole

Page 1 of 2

2,060' to Top Hole

TOP HOLE LATITUDE 39 - 27 - 30
BTM HOLE LATITUDE 39 - 25 - 00

TOP HOLE LONGITUDE 81 - 00 - 00
BTM HOLE LONGITUDE 80 - 57 - 30

10,379' to Bottom Hole
13,538' to Top Hole

Antero Resources
Well No. Martindill 1H
As-Drilled
Antero Resources Corporation



Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

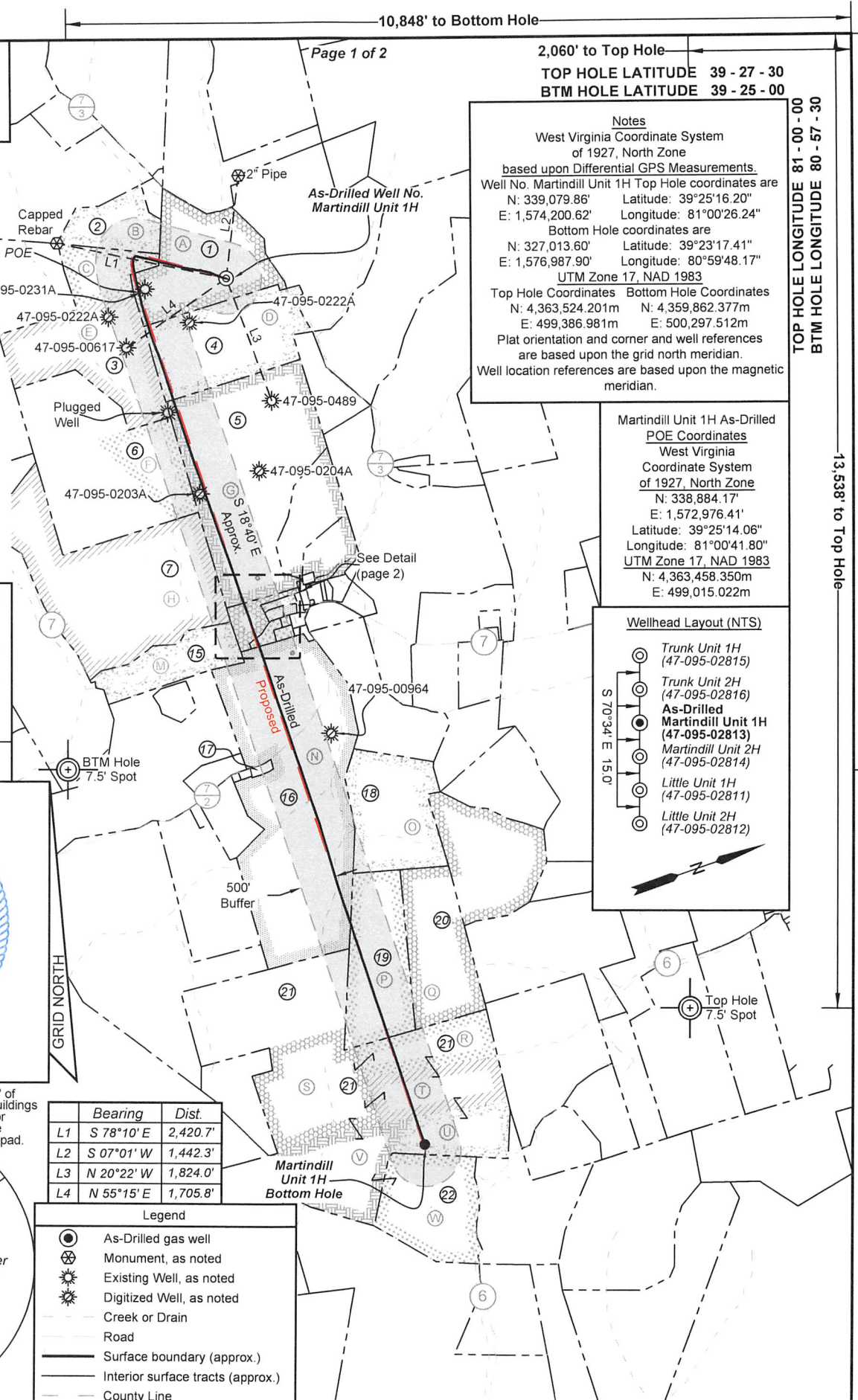
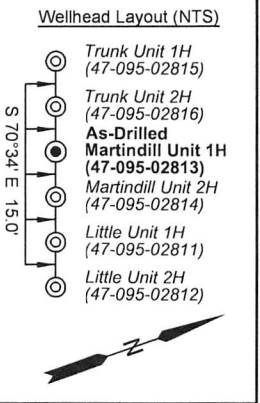
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167



Notes
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Well No. Martindill Unit 1H Top Hole coordinates are
N: 339,079.86' Latitude: 39°25'16.20"
E: 1,574,200.62' Longitude: 81°00'26.24"
Bottom Hole coordinates are
N: 327,013.60' Latitude: 39°23'17.41"
E: 1,576,987.90' Longitude: 80°59'48.17"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,363,524.201m N: 4,359,862.377m
E: 499,386.981m E: 500,297.512m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

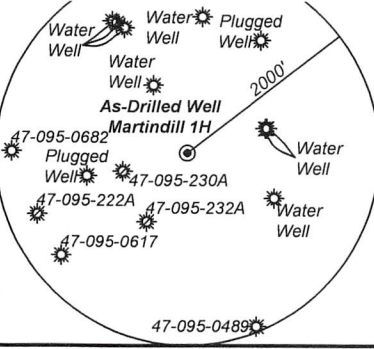
Martindill Unit 1H As-Drilled POE Coordinates
West Virginia Coordinate System of 1927, North Zone
N: 338,884.17'
E: 1,572,976.41'
Latitude: 39°25'14.06"
Longitude: 81°00'41.80"
UTM Zone 17, NAD 1983
N: 4,363,458.350m
E: 499,015.022m



	Bearing	Dist.
L1	S 78°10' E	2,420.7'
L2	S 07°01' W	1,442.3'
L3	N 20°22' W	1,824.0'
L4	N 55°15' E	1,705.8'

- Legend**
- As-Drilled gas well
 - Monument, as noted
 - Existing Well, as noted
 - Digitized Well, as noted
 - Creek or Drain
 - Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)
 - County Line

Note: 8 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.



FILE NO: 42-54-M-18
DRAWING NO: Martindill Unit 1H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

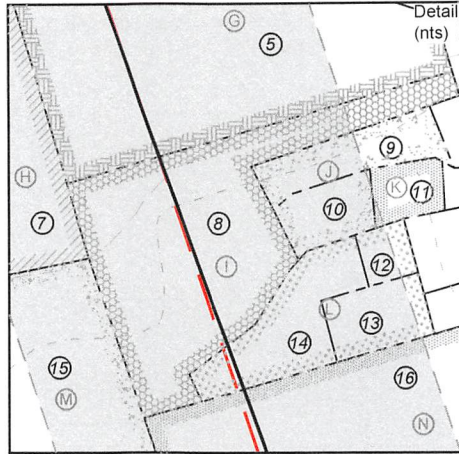
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: August 17 2023
OPERATOR'S WELL NO. Martindill Unit 1H
API WELL NO
47 - 095 - 02813
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As-Built: 937' WATERSHED: Middle Island Creek QUADRANGLE: TH:Bens Run BH:Middlebourne
DISTRICT: Meade COUNTY: Tyler 02/09/2024
SURFACE OWNER: Shirley J. Wells & David Quentin Carse; JayBee Production Company (2); Wilma Jane Benefiel; William H. Jemison; Lawrence D. Mossor ACREAGE: 53.85 57.375; 19.25; 63.95937; 140; 7.74;
ROYALTY OWNER: Greenbrier Royalty Fund II, LLC; Mary C. Robinson Living Trust; Janelle Sue Perkins LEASE NO: ACREAGE: 133.25; 45; 25; 25; 25
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,201' TVD 19,030' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
Denver, CO 80202 Bridgeport, WV 26330

Antero Resources
Well No. Martindill 1H
As-Drilled
 Antero Resources Corporation



Leases	
A	Greenbrier Royalty Fund II LLC
B	Antero Minerals, LLC
C	Janelle Sue Perkins
D	Mary C. Robinson Living Trust
E	Inex B. Fletcher, et vir
F	E.E. Bonner, et ux
G	Wilma Jane Benefiel
H	Robert Carl Anderson
I	Hope Isenberg
J	Russell J. Lough, et ux
K	David C. Henderson
L	Richard C. Mossor, et ux
M	Richard L. Gorrell, et ux
N	William H. Jemison
O	Ridgetop Royalties, LLC
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S	JayBee Production Company
T	JayBee Production Company
U	Lawrence D. Mossor
V	B&A Bradford Family LP
W	Ronald L. Simons

ID	TM/Par	Owner	BK/Pg	Acres
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2	7-1.1	Daniel Preston Bonner	416/11	20.19
3	7-7	Janelle S. Perkins	184/378	74.08
4	7-8	John Wells	428/412	52.39
5	7-12	Wilma Jane (Benefiel) Wagner	W35/225	110.30
6	7-11	Timothy Bryant Perkins	481/481	91.77
7	7-17&18	Barbara Trunk Renner	332/525	97.00
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9	7A-2.1	Russell J. & Judith Ann Lough	299/337	1.25
10	7A-17	Russell J. & Judith Ann Lough	299/337	1.25
11	7A-11	David Henderson & Sharley Shortridge	W47/263	0.72
12	7A-14	Richard C. & Shelly J. Mossor	558/470	0.40
13	7A-16	Richard C. & Shelly J. Mossor	58/472	1.00
14	7A-15	Richard C. & Shelly J. Mossor	558/474	1.36
15	7-17.2	Barbara Trunk Renner, et al	248/471	20.00
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17	10-32	Wilma J. Monroe	W75/840	0.98
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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: August 17 2023
 OPERATOR'S WELL NO. Martindill Unit 1H
 API WELL NO
47 - 095 - 02813
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,030' MD 6,201' TVD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Kevin Ellis
 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
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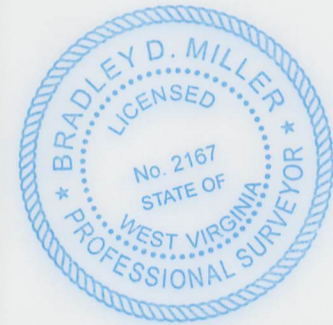
Antero Resources
Well No. Martindill 1H
As-Drilled
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Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

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



Note: 8 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.



	Bearing	Dist.
L1	S 78°10' E	2,420.7'
L2	S 07°01' W	1,442.3'
L3	N 20°22' W	1,824.0'
L4	N 55°15' E	1,705.8'

- Legend**
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Page 1 of 2

2,060' to Top Hole
 TOP HOLE LATITUDE 39 - 27 - 30
 BTM HOLE LATITUDE 39 - 25 - 00

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Martindill Unit 1H Top Hole coordinates are
 N: 339,079.86' Latitude: 39°25'16.20"
 E: 1,574,200.62' Longitude: 81°00'26.24"
 Bottom Hole coordinates are
 N: 327,013.60' Latitude: 39°23'17.41"
 E: 1,576,987.90' Longitude: 80°59'48.17"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,363,524.201m N: 4,359,862.377m
 E: 499,386.981m E: 500,297.512m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Martindill Unit 1H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 338,884.17'
 E: 1,572,976.41'
 Latitude: 39°25'14.06"
 Longitude: 81°00'41.80"
 UTM Zone 17, NAD 1983
 N: 4,363,458.350m
 E: 499,015.022m

Wellhead Layout (NTS)



TOP HOLE LONGITUDE 81 - 00 - 00
 BTM HOLE LONGITUDE 80 - 57 - 30

10,379' to Bottom Hole
 13,538' to Top Hole

FILE NO: 42-54-M-18
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STATE OF WEST VIRGINIA
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OIL AND GAS DIVISION

DATE: August 17 2023
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 API WELL NO
 47 - 095 - 02813
 STATE COUNTY PERMIT

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 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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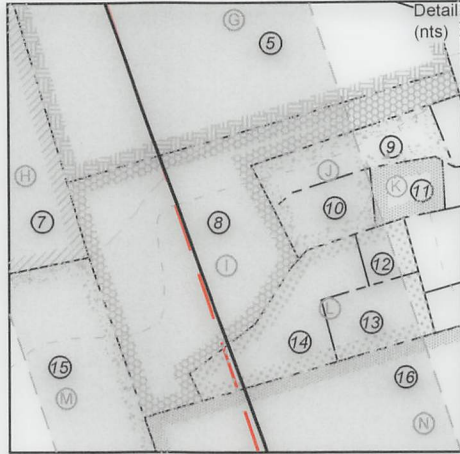
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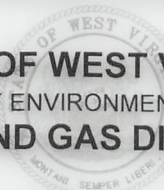
02/09/2024

Antero Resources
Well No. Martindill 1H
As-Drilled
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STATE OF WEST VIRGINIA
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OIL AND GAS DIVISION

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 ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.
 Denver, CO 80202 Bridgeport, WV 26330

02/09/2024

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/20/2023
Job End Date:	5/6/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02813-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Wrigley Martindill 1H
Latitude:	39.42124200
Longitude:	-81.00712200
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,199
Total Base Water Volume (gal):	19,000,129
Total Base Non Water Volume:	0



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	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.83910	Density = 8.80
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.22099	

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Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
FDP-S1464-22	Halliburton	Friction Reducer					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			

RECEIVED
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Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

			Crystalline silica, quartz	14808-60-7	100.00000	12.90054	
			Hydrochloric acid	7647-01-0	30.00000	0.05394	
			Complex amine compound	Proprietary	60.00000	0.02054	
			Guar gum	9000-30-0	100.00000	0.01657	
			Complex Amine Compound	Proprietary	60.00000	0.01264	
			Hydrotreated distillate	Proprietary	30.00000	0.01027	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.00632	
			Glutaraldehyde	111-30-8	30.00000	0.00240	
			Ammonium chloride	12125-02-9	5.00000	0.00171	
			Fatty nitrogen derived amides	Proprietary	5.00000	0.00171	
			Ethoxylated alcohol	Proprietary	5.00000	0.00171	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00140	
			Surfactant	Proprietary	5.00000	0.00105	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00040	
			Ammonium persulfate	7727-54-0	100.00000	0.00038	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	1.00000	0.00034	
			Methanol	67-56-1	100.00000	0.00034	
			Ethoxylated alcohols	Proprietary	5.00000	0.00023	
			Organic chloride compound	Proprietary	1.00000	0.00021	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00021	
			Oxylated phenolic resin	Proprietary	30.00000	0.00011	
			Modified thiourea polymer	Proprietary	30.00000	0.00010	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00010	

WV Department of
 Environmental Protection

AUG 21 2023

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 Office of Oil and Gas

			Ethanol	64-17-5	1.00000	0.00008	
			Hexadecene	629-73-2	5.00000	0.00002	
			Propargyl alcohol	107-19-7	5.00000	0.00002	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	
			Organic salt #2	Proprietary	0.01000	0.00000	
			Formaldehyde	50-00-0	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Acrylamide	79-06-1	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Organic salt #1	Proprietary	0.01000	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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