

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

API 47 - 095 - 02814 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 2H
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 4363522.756m Easting 499391.345m
Landing Point of Curve Northing 4363186.95m Easting 499420.58m
Bottom Hole Northing 4360107.592m Easting 500539.933m

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 2/21/2023
Date completion activities began 4/5/2023 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

APPROVED

Reviewed by:

[Signature]
12-15-2023 02/09/2024

API 47-095 - 02814 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"	620'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3244'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	18471'	New	23#, P-110-ICY	N/A	Y
Tubing		2-3/8"	6190'		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	2700 sx (Lead)	15.2	1.28 (Lead)	3456	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18471' MD, 6180' TVD (BHL), 6181' (Deepest Point Drilled) Loggers TD (ft) 18471' MD

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

Plug back procedure N/A

Kick off depth (ft) 5279'

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

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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 47-095-02814 Farm Name Shirley J. Wells & Suise Cunningham Well Number Martindill Unit 2H

Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	4/5/2023	18349.5	18305.5	60	Marcellus
2	4/6/2023	18267.84605	18101.5763	60	Marcellus
3	4/6/2023	18065.92232	17899.6525	60	Marcellus
4	4/7/2023	17863.99859	17697.7288	60	Marcellus
5	4/7/2023	17662.07486	17495.8051	60	Marcellus
6	4/7/2023	17460.15113	17293.8814	60	Marcellus
7	4/8/2023	17258.2274	17091.9576	60	Marcellus
8	4/8/2023	17056.30367	16890.0339	60	Marcellus
9	4/8/2023	16854.37994	16688.1102	60	Marcellus
10	4/9/2023	16652.45621	16486.1864	60	Marcellus
11	4/9/2023	16450.53249	16284.2627	60	Marcellus
12	4/9/2023	16248.60876	16082.339	60	Marcellus
13	4/10/2023	16046.68503	15880.4153	60	Marcellus
14	4/10/2023	15844.7613	15678.4915	60	Marcellus
15	4/10/2023	15642.83757	15476.5678	60	Marcellus
16	4/11/2023	15440.91384	15274.6441	60	Marcellus
17	4/11/2023	15238.99011	15072.7203	60	Marcellus
18	4/11/2023	15037.06638	14870.7966	60	Marcellus
19	4/12/2023	14835.14266	14668.8729	60	Marcellus
20	4/12/2023	14633.21893	14466.9492	60	Marcellus
21	4/12/2023	14431.2952	14265.0254	60	Marcellus
22	4/13/2023	14229.37147	14063.1017	60	Marcellus
23	4/13/2023	14027.44774	13861.178	60	Marcellus
24	4/13/2023	13825.52401	13659.2542	60	Marcellus
25	4/15/2023	13623.60028	13457.3305	60	Marcellus
26	4/15/2023	13421.67655	13255.4068	60	Marcellus
27	4/16/2023	13219.75282	13053.4831	60	Marcellus
28	4/16/2023	13017.8291	12851.5593	60	Marcellus
29	4/16/2023	12815.90537	12649.6356	60	Marcellus
30	4/16/2023	12613.98164	12447.7119	60	Marcellus
31	4/16/2023	12412.05791	12245.7881	60	Marcellus
32	4/16/2023	12210.13418	12043.8644	60	Marcellus
33	4/16/2023	12008.21045	11841.9407	60	Marcellus
34	4/17/2023	11806.28672	11640.0169	60	Marcellus
35	4/17/2023	11604.36299	11438.0932	60	Marcellus
36	4/17/2023	11402.43927	11236.1695	60	Marcellus
37	4/17/2023	11200.51554	11034.2458	60	Marcellus
38	4/17/2023	10998.59181	10832.322	60	Marcellus
39	4/17/2023	10796.66808	10630.3983	60	Marcellus
40	4/18/2023	10594.74435	10428.4746	60	Marcellus
41	4/18/2023	10392.82062	10226.5508	60	Marcellus
42	4/18/2023	10190.89689	10024.6271	60	Marcellus
43	4/18/2023	9988.973164	9822.70339	60	Marcellus
44	4/19/2023	9787.049435	9620.77966	60	Marcellus
45	4/19/2023	9585.125706	9418.85593	60	Marcellus
46	4/19/2023	9383.201977	9216.9322	60	Marcellus
47	4/19/2023	9181.278249	9015.00847	60	Marcellus
48	4/19/2023	8979.35452	8813.08475	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	4/5/2023	84.5	10217	10671	4676	169960	5278.72143	N/A
2	4/6/2023	97.6	10084.79	4746.19	4328.988	401770	7274.06857	N/A
3	4/6/2023	97.3	10055	6884	4546	404710	7516.18357	N/A
4	4/7/2023	95.6	9982	4956	4396	404000	7776.74738	N/A
5	4/7/2023	98.0	10089	5217	4413	410520	7046.84143	N/A
6	4/7/2023	96.6	9807.335	5108.42	4425.102	412340	7157.835	N/A
7	4/8/2023	97.5	9914	5719	4616	404260	7155.93214	N/A
8	4/8/2023	96.8	10087.37	4001.52	4257.138	406500	6968.20452	N/A
9	4/8/2023	97.0	9918	6039	4335	416150	6960.18381	N/A
10	4/9/2023	97.3	9917	4933	4278	413130	7069.23762	N/A
11	4/9/2023	96.0	9955	4735	4864	401380	6857.61857	N/A
12	4/9/2023	95.7	10108	4979	4401	394580	6922	N/A
13	4/10/2023	97.2	10099	4979	4495	405350	6798.48595	N/A
14	4/10/2023	95.7	9676	4855	4132	409270	6951.71881	N/A
15	4/10/2023	97.3	9806	4488	3557	418870	6996.84071	N/A
16	4/11/2023	96.8	9563	5020	3899	403980	7018.08	N/A
17	4/11/2023	96.1	9681	4004	4067	417050	7153.22976	N/A
18	4/11/2023	95.0	9499	5050	4003	411240	6894.51381	N/A
19	4/12/2023	95.1	9429	4819	4190	406980	7064.55762	N/A
20	4/12/2023	96.4	9551	3990	3942	407690	6851.2519	N/A
21	4/12/2023	96.6	9583	4030	3983	406780	7044.85548	N/A
22	4/13/2023	96.7	9074	4933	4059	406180	7837.62857	N/A
23	4/13/2023	95.7	9099	3763	3958	407230	6859.15333	N/A
24	4/13/2023	97.8	9673	5083	3989	407200	6724.86714	N/A
25	4/15/2023	96.6	9038	4981	4012	414180	7154.80238	N/A
26	4/15/2023	98.4	9050	4882	3626	412090	6960.21357	N/A
27	4/16/2023	97.6	9060	3156	3425	403630	6882.20571	N/A
28	4/16/2023	97.0	9055	3496	3760	419860	7070.91643	N/A
29	4/16/2023	95.4	8896	4764	3444	418160	6935.51024	N/A
30	4/16/2023	95.0	9035	5209	3727	399500	6779.10095	N/A
31	4/16/2023	96.5	8855	4871	3697	400530	6806.54095	N/A
32	4/16/2023	96.9	8760	3128	3474	406000	7104.64976	N/A
33	4/16/2023	97.3	8810	5089	3200	419810	7032.64976	N/A
34	4/17/2023	97.9	8824	4379	3363	411910	6889.01452	N/A
35	4/17/2023	96.7	8852	5099	4296	412900	6999.76476	N/A
36	4/17/2023	96.2	8356	4924	4118	413400	6832.85262	N/A
37	4/17/2023	97.5	8041	4867	3902	416100	6998.04595	N/A
38	4/17/2023	97.6	8196	5091	3894	416460	7061.95333	N/A
39	4/17/2023	99.3	8268	5177	3994	416230	6995.05429	N/A
40	4/18/2023	81.5	7870	3790	4459	416180	10303.3621	N/A
41	4/18/2023	91.0	7827	4963	3765	413880	6945.27643	N/A
42	4/18/2023	93.2	8071	4903	3654	414570	6936.53714	N/A
43	4/18/2023	91.8	7800	5173	3644	415680	6944.86667	N/A
44	4/19/2023	92.0	8248	5175	3338	418510	7072.62857	N/A
45	4/19/2023	92.7	7767	5683	4004	412260	6980.9419	N/A
46	4/19/2023	92.4	7642	5772	4215	413320	6874.64738	N/A
47	4/19/2023	92.2	7633	3950	3936	417810	6909.165	N/A
48	4/19/2023	91.6	7310	4781	3834	413420	6810.67381	N/A
	AVERAGE	95	9,086	4,923	4,012	19,463,510	338,460	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	1,749	1,720	1,749
Big Lime	1,779	2,515	1,749	2,515
Fifty Foot Sandstone	2,515	2,601	2,485	2,601
Gordon	2,601	2,798	2,571	2,799
Fifth Sandstone	2,798	3,173	2,769	3,184
Bayard	3,173	3,767	3,154	3,804
Speechley	3,767	4,066	3,774	4,114
Balltown	4,066	4,379	4,084	4,437
Bradford	4,379	4,679	4,407	4,749
Benson	4,679	4,990	4,719	5,076
Alexander	4,990	5,964	5,046	6,143
Sycamore	5,840	5,934	5,979	6,113
Middlesex	5,934	6,014	6,113	6,272
Burkett	6,014	6,035	6,272	6,337
Tully	N/A	N/A	N/A	N/A
Marcellus	6,035	N/A	6,337	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.

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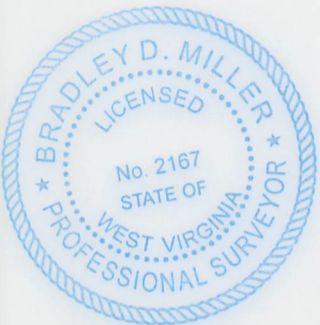
Antero Resources
Well No. Martindill 2H
As-Drilled
 Antero Resources Corporation



Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheeny 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°08' E	2,435.6'
L2	S 06°25' W	1,445.3'
L3	N 20°00' W	1,814.5'
L4	N 55°40' E	1,714.7'

- 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

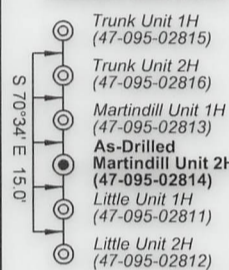
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2,045' to Top Hole
 TOP HOLE LATITUDE 39 - 27 - 30
 BTM HOLE LATITUDE 39 - 25 - 00

Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Martindill Unit 2H Top Hole coordinates are
 N: 339,074.88' Longitude: 81°00'26.06"
 E: 1,574,214.86'
 Bottom Hole coordinates are
 N: 327,804.97' Longitude: 39°23'25.37"
 E: 1,577,796.85' Longitude: 80°59'38.03"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,363,522.756m N: 4,360,107.592m
 E: 499,391.345m E: 500,539.933m
 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 2H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 339,246.50'
 E: 1,573,874.48'
 Latitude: 39°25'17.79"
 Longitude: 81°00'30.44"
 UTM Zone 17, NAD 1983
 N: 4,363,573.307m
 E: 499,286.775m

Wellhead Layout (NTS)



GRID NORTH

Martindill Unit 2H Bottom Hole

Top Hole 7.5' Spot

FILE NO: 42-54-M-18
 DRAWING NO: Martindill Unit 2H 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 2H
 API WELL NO
 47 - 095 - 02814
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built: 937' WATERSHED: Outlet Middle Island Creek QUADRANGLE: TH: Bens Run BH: Middlebourne

DISTRICT: Meade COUNTY: Tyler 02/09/2024

SURFACE OWNER: Shirley J. Wells & Gary W. Freeland; JayBee Production Company; David C. Henderson; William C. & Rebecca Doty; William H. Jemison; Ridgetop Royalties, LLC; ACREAGE: 53.85 140; 4.445; 31; 133.25; 44.73; 50;

ROYALTY OWNER: Greenbrier Royalty Fund II, LLC; Mary C. Robinson Living Trust; LEASE NO: ACREAGE: 57.375; 228.798

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,180' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,471' 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

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

13,542' to Top Hole

9,574' to Bottom Hole

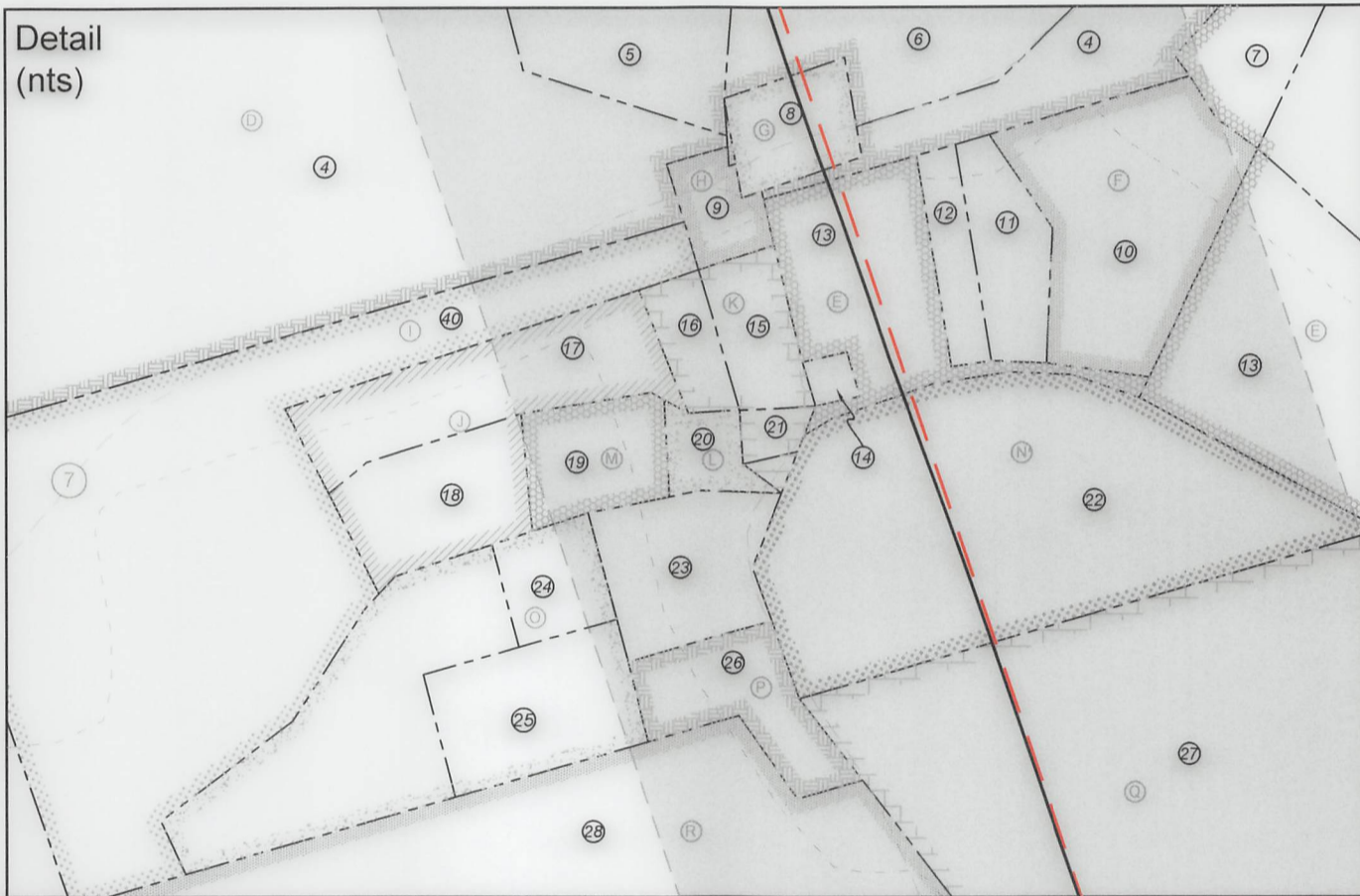
10,052' to Bottom Hole



Leases					
A	Greenbrier Royalty Fund II LLC	J	Russell J. Lough, et ux	S	Ridgetop Royalties, LLC
B	Kerr-McGee Oil & Gas Onshore LP	K	Kenneth G. Hall	T	David Quentin Carse
C	Mary C. Robinson Living Trust	L	Michael A. Mossor, et ux	U	Steven L. & Jeral A. McGowan
D	Wilma Jane Benefiel	M	David C. Henderson	V	Arnold L. Schulberg Oil & Gas Trust
E	David C. Henderson	N	Kerr-McGee Oil & Gas Onshore LP	W	JayBee Production Company
F	Jerry Irvin Lowther, Jr., et ux	O	Richard C. Mossor, et ux	X	Lawrence D. Mossor
G	Gary W. Freeland	P	Sherry Snyder	Y	Robert R. Osterland, et ux
H	Stephen M. Deaton	Q	William C. Doty & Rebecca Doty	Z	Ronald L. Simons
I	Hope Isenberg	R	William H. Jemison		

ID	TM/Par	Owner	Bk/Pg	Acres	ID	TM/Par	Owner	Bk/Pg	Acres
1	7-2	Shirley J. Wells & Susie Cunningham	W41/317	53.85	21	7A-6	Kenneth G. Hall	555/34	0.13
2	4-20.1	Richard W. Barnhart Jr.	213/162	49.74	22	7A-1.1	Thaddeus R. & Deborah A. Biedrzycki	504/359	4.44
3	7-8	John Wells	428/412	52.39	23	7A-5	Jay W. Westbrook & Teresa K. Hill	324/537	0.88
4	7-12	Wilma Jane (Benefiel) Wagner	W35/225	110.30	24	7A-14	Richard C. & Shelly J. Mossor	558/470	0.40
5	7-12.2	Gary W. Freeland	336/530	19.97	25	7A-16	Richard C. & Shelly J. Mossor	58/472	1.00
6	7-12.1	Gary W. Freeland	251/546	8.73	26	7A-4	Sherry Snyder	420/53	1.00
7	7-19.1/2	Kenneth G. Hall	555/34	0.45	27	7-22	Thaddeus R. & Deborah A. Biedrzycki	581/74	31.00
8	7A-7	Gary W. Freeland	256/480	0.35	28	7-21	Wilma J. Monroe	W75/840	133.25
9	7A-19	Paul & David Frum	W12/154	0.31	29	7-19	Darlene Henderson	W47/263	122.83
10	7A-9	Jerry Irvin, Jr. & Linda Sue Lowther	568/361	2.00	30	10-5	Thaddeus R. & Deborah A. Biedrzycki	349/513	44.73
11	7A-12	Sandra Samples & Janet Triplett	226/578	0.66	31	10-8	David Henderson & Sharley Shortridge	W47/263	44.28
12	7A-13	William J. & Marilee Edna Triplett	264/416	0.33	32	10-7	David Henderson & Sharley Shortridge	W47/263	41.00
13	7A-1	Trevor L. & Marina M. Tallman	547/710	2.97	33	10-6	BB Farm Investments LLC	594/417	45.00
14	7A-8	Trevor L. & Marina M. Tallman	431/691	0.08	34	10-9	Charles L. & Laura McGowan, et al	348/320	61.51
15	7A-10	Kenneth G. Hall	555/34	0.53	35	10-23	BB Farm Investments LLC	594/417	66.69
16	7A-8.1	Kenneth G. Hall	555/34	0.16	36	10-24	BB Farm Investments LLC	594/417	220.80
17	7A-2.1	Russell J. & Judith Ann Lough	299/337	1.25	37	10-34	Dale A. & Melanie L. Proctor	642/567	43.55
18	7A-17	Russell J. & Judith Ann Lough	299/337	1.25	38	10-22	Clayton Hill	321/409	15.00
19	7A-11	David Henderson & Sharley Shortridge	W47/263	0.72	39	10-28	Ronald L. Simmons	340/784	42.04
20	7A-3	Michael A. & Tammy L. Mossor	294/487	0.64	40	7A-2	Hope Isenberg	358/449	7.74

Detail
(nts)



FILE NO: 42-54-M-18
 DRAWING NO: Martindill Unit 2H 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 2H
 API WELL NO
 47 - 095 - 02814
 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
 SURFACE OWNER: Shirley J. Wells & Susie Cunningham; Gary W. Freeland; JayBee Production Company; David C. Henderson; William C. & Rebecca Doty; William H. Jemison; Ridgetop Royalties, LLC; ACREAGE: 53.85
 ROYALTY OWNER: Greenbrier Royalty Fund II, LLC; Mary C. Robinson Living Trust; LEASE NO: ACREAGE: 57.375; 228.798

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: 6,180' TVD 18,471' 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

02/09/2024

Antero Resources
Well No. Martindill 2H
As-Drilled
 Antero Resources Corporation



Top Hole Coordinates, As-drilled data, and information was provided by Antero Resources Corporation. Allegheeny 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



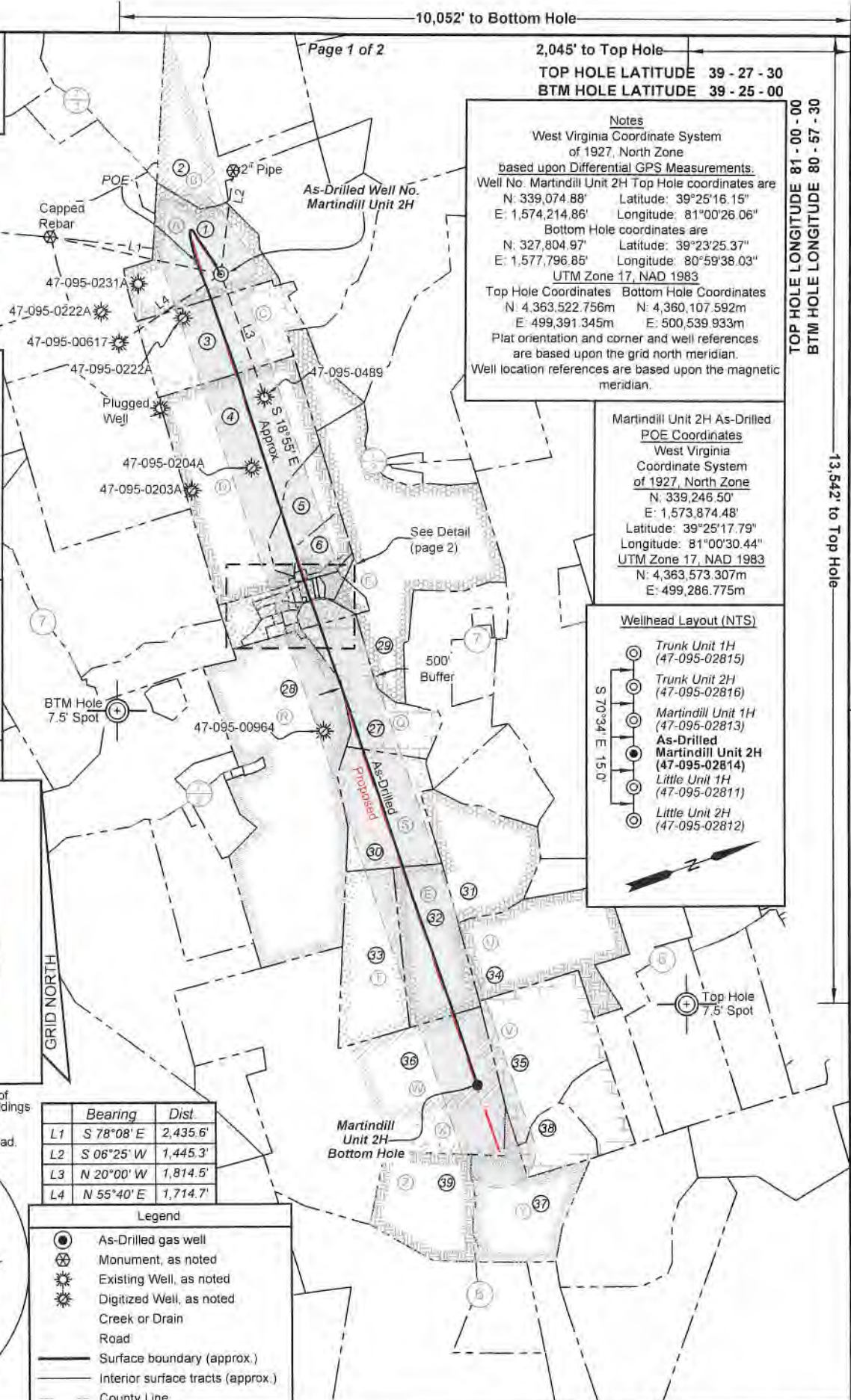
Note: 8 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



	Bearing	Dist.
L1	S 78°08' E	2,435.6'
L2	S 06°25' W	1,445.3'
L3	N 20°00' W	1,814.5'
L4	N 55°40' E	1,714.7'

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



Notes
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Martindill Unit 2H Top Hole coordinates are N: 339,074.88' Longitude: 81°00'26.06" E: 1,574,214.86' Bottom Hole coordinates are N: 327,804.97' Longitude: 80°59'38.03" E: 1,577,796.85' UTM Zone 17, NAD 1983 Top Hole Coordinates N: 4,363,522.756m E: 499,391.345m Bottom Hole Coordinates N: 4,360,107.592m E: 500,539.933m 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 2H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone N: 339,246.50' E: 1,573,874.48' Latitude: 39°25'17.79" Longitude: 81°00'30.44" UTM Zone 17, NAD 1983 N: 4,363,573.307m E: 499,286.775m



FILE NO: 42-54-M-18
 DRAWING NO: Martindill Unit 2H 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 2H
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 47 - 095 - 02814
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 ROYALTY OWNER: Greenbrier Royalty Fund II, LLC; Mary C. Robinson Living Trust; LEASE NO: ACREAGE: 57.375; 228.798

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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,471' MD

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

9,574' to Bottom Hole

13,542' to Top Hole

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

Page 1 of 2

2,045' to Top Hole
 TOP HOLE LATITUDE 39 - 27 - 30
 BTM HOLE LATITUDE 39 - 25 - 00

10,052' to Bottom Hole



Leases					
A	Greenbrier Royalty Fund II LLC	J	Russell J. Lough, et ux	S	Ridgetop Royalties, LLC
B	Kerr-McGee Oil & Gas Onshore LP	K	Kenneth G. Hall	T	David Quentin Carse
C	Mary C. Robinson Living Trust	L	Michael A. Mossor, et ux	U	Steven L. & Jeral A. McGowan
D	Wilma Jane Benefiel	M	David C. Henderson	V	Arnold L. Schulberg Oil & Gas Trust
E	David C. Henderson	N	Kerr-McGee Oil & Gas Onshore LP	W	JayBee Production Company
F	Jerry Irvin Lowther, Jr., et ux	O	Richard C. Mossor, et ux	X	Lawrence D. Mossor
G	Gary W. Freeland	P	Sherry Snyder	Y	Robert R. Osterland, et ux
H	Stephen M. Deaton	Q	William C. Doty & Rebecca Doty	Z	Ronald L. Simons
I	Hope Isenberg	R	William H. Jemison		

ID	TM/Par	Owner	Bk/Pg	Acres	ID	TM/Par	Owner	Bk/Pg	Acres
1	7-2	Shirley J. Wells & Susie Cunningham	W41/317	53.85	21	7A-6	Kenneth G. Hall	555/34	0.13
2	4-20.1	Richard W. Barnhart Jr.	213/162	49.74	22	7A-1.1	Thaddeus R. & Deborah A. Biedrzycki	504/359	4.44
3	7-8	John Wells	428/412	52.39	23	7A-5	Jay W. Westbrook & Teresa K. Hill	324/537	0.88
4	7-12	Wilma Jane (Benefiel) Wagner	W35/225	110.30	24	7A-14	Richard C. & Shelly J. Mossor	558/470	0.40
5	7-12.2	Gary W. Freeland	336/530	19.97	25	7A-16	Richard C. & Shelly J. Mossor	58/472	1.00
6	7-12.1	Gary W. Freeland	251/546	8.73	26	7A-4	Sherry Snyder	420/53	1.00
7	7-19.1/2	Kenneth G. Hall	555/34	0.45	27	7-22	Thaddeus R. & Deborah A. Biedrzycki	581/74	31.00
8	7A-7	Gary W. Freeland	256/480	0.35	28	7-21	Wilma J. Monroe	W75/840	133.25
9	7A-19	Paul & David Frum	W12/154	0.31	29	7-19	Darlene Henderson	W47/263	122.83
10	7A-9	Jerry Irvin, Jr. & Linda Sue Lowther	568/361	2.00	30	10-5	Thaddeus R. & Deborah A. Biedrzycki	349/513	44.73
11	7A-12	Sandra Samples & Janet Triplett	226/578	0.66	31	10-8	David Henderson & Sharley Shortridge	W47/263	44.28
12	7A-13	William J. & Marilee Edna Triplett	264/416	0.33	32	10-7	David Henderson & Sharley Shortridge	W47/263	41.00
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FILE NO: 42-54-M-18	 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE: August 17 2023
DRAWING NO: Martindill Unit 2H As-Drilled		OPERATOR'S WELL NO. Martindill Unit 2H
SCALE: 1" = 2000'		API WELL NO
MINIMUM DEGREE OF ACCURACY: Submeter		47 - 095 - 02814
PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV		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 & Susie Cunningham; Gary W. Freeland; JayBee Production Company; David C. Henderson; William C. & Rebecca Doty; William H. Jemison; Ridgetop Royalties, LLC; ACREAGE: 53.85 140; 4.445; 31; 133.25; 44.73; 50;

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PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18.471' 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

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/5/2023
Job End Date:	4/19/2023
State:	West Virginia
County:	Tyler
API Number:	47-095-02814-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Wrigley Martindill 2H
Latitude:	39.42115300
Longitude:	-80.00723900
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,181
Total Base Water Volume (gal):	14,836,951
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	86.85051	Density = 8.80
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.17292	

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DM

MC B-8614A	MultiChem	Biocide					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
Chemstream StimSTREAM FR 2800	Chemstream, Inc.	Friction Reducer					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			

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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	12.94693	
			Hydrochloric acid	7647-01-0	30.00000	0.04159	
			Complex Amine Compound	Proprietary	60.00000	0.02624	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01312	
			Guar gum	9000-30-0	100.00000	0.00621	
			Glutaraldehyde	111-30-8	30.00000	0.00241	
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00219	
			Surfactant	Proprietary	5.00000	0.00219	
			Distillates, (petroleum), hydrotreated light	64742-47-8	25.00000	0.00137	
			Ethoxylated alcohols	Proprietary	5.00000	0.00045	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00044	
			Organic chloride compound	Proprietary	1.00000	0.00044	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00040	
			Alcohols, C11-14-iso, C-13-rich, ethoxylated	78330-21-9	5.00000	0.00027	
			Methanol	67-56-1	100.00000	0.00026	
			Ammonium persulfate	7727-54-0	100.00000	0.00018	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00008	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00008	
			Oxylated phenolic resin	Proprietary	30.00000	0.00006	
			Hexadecene	629-73-2	5.00000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	

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			Organic salt #2	Proprietary	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	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	
			Acrylamide	79-06-1	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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