

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

API 47-095-02781 County Tyler District Lincoln  
Quad Paden City Pad Name Nalley Field/Pool Name -----  
Farm name Robert D. & Virginia A. Nalley Well Number Wable 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 4377208m Easting 503895m  
Landing Point of Curve Northing 4377020.031m Easting 503293.563m  
Bottom Hole Northing 4372714m Easting 504776m

Elevation (ft) 972' 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 1/21/2022 Date drilling commenced 3/11/2022 Date drilling ceased 6/1/2022  
Date completion activities began 7/12/2022 Date completion activities ceased 8/30/2022  
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

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Freshwater depth(s) ft 264' Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft 1376' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft No Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:

03/17/2023

API 47-095 - 02781 Farm name Robert D. & Virginia A. Nalley Well number Wable 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	78.67#, X-60	N/A	Y
Surface	17-1/2"	13-3/8"	389'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2641'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"/8-3/4"	5-1/2"	21687'	New	23#, P-110cy	N/A	Y
Tubing		2-3/8"	6553'		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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	190 sx	15.6	1.18	224	0'	8 Hrs.
Surface	Class A	330 sx	15.8	1.20	396	0'	8 Hrs.
Coal							
Intermediate 1	Class C	935 sx	15.8	1.16	1085	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	3695 sx (Tail)	15.2(Tail)	1.18 (Tail)	4360	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 21687' MD, 6267' TVD (BHL), 6267' (Deepest Point Drilled) Loggers TD (ft) 21687' MD

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

Plug back procedure N/A

Kick off depth (ft) 5760'

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

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*[Handwritten Signature]*  
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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>			
<u>Marcellus</u>	<u>6056'</u> (TOP)	<u>TVD</u>	<u>6703'</u> (TOP)	<u>MD</u>
<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>

Please insert additional pages as applicable.

GAS TEST    Build up    Drawdown    Open Flow   OIL TEST    Flow    Pump

SHUT-IN PRESSURE   Surface 1557   psi   Bottom Hole ---   psi   DURATION OF TEST ---   hrs

OPEN FLOW   Gas   Oil   NGL   Water   GAS MEASURED BY  
17529   mcfpd   492   bpd   ---   bpd   2083   bpd    Estimated    Orifice    Pilot

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

**\*PLEASE SEE ATTACHED EXHIBIT 3**


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 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 12/20/2022

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

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*Smiley*  
*2/1/23*  
**03/17/2023**



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Exhibit 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	07/12/2022	21554.4	21508.4	60	Marcellus
2	07/12/2022	21469.5	21303.1	60	Marcellus
3	07/12/2022	21267.5	21101.1	60	Marcellus
4	07/13/2022	21065.4	20899.0	60	Marcellus
5	07/13/2022	20863.4	20697.0	60	Marcellus
6	07/13/2022	20661.3	20494.9	60	Marcellus
7	07/14/2022	20459.2	20292.9	60	Marcellus
8	07/14/2022	20257.2	20090.8	60	Marcellus
9	07/14/2022	20055.1	19888.7	60	Marcellus
10	07/16/2022	19853.1	19686.7	60	Marcellus
11	07/16/2022	19651.0	19484.6	60	Marcellus
12	07/17/2022	19448.9	19282.6	60	Marcellus
13	07/18/2022	19246.9	19080.5	60	Marcellus
14	07/18/2022	19044.8	18878.5	60	Marcellus
15	07/19/2022	18842.8	18676.4	60	Marcellus
16	07/19/2022	18640.7	18474.3	60	Marcellus
17	07/20/2022	18438.7	18272.3	60	Marcellus
18	07/20/2022	18236.6	18070.2	60	Marcellus
19	07/20/2022	18034.5	17868.2	60	Marcellus
20	07/21/2022	17832.5	17666.1	60	Marcellus
21	07/21/2022	17630.4	17464.0	60	Marcellus
22	07/22/2022	17428.4	17262.0	60	Marcellus
23	07/22/2022	17226.3	17059.9	60	Marcellus
24	07/23/2022	17024.3	16857.9	60	Marcellus
25	07/23/2022	16822.2	16655.8	60	Marcellus
26	07/24/2022	16620.1	16453.8	60	Marcellus
27	07/24/2022	16418.1	16251.7	60	Marcellus
28	07/25/2022	16216.0	16049.6	60	Marcellus
29	07/25/2022	16014.0	15847.6	60	Marcellus
30	07/26/2022	15811.9	15645.5	60	Marcellus
31	07/26/2022	15609.9	15443.5	60	Marcellus
32	07/26/2022	15407.8	15241.4	60	Marcellus
33	07/26/2022	15205.7	15039.4	60	Marcellus
34	07/26/2022	15003.7	14837.3	60	Marcellus
35	07/27/2022	14801.6	14635.2	60	Marcellus
36	07/27/2022	14599.6	14433.2	60	Marcellus
37	07/27/2022	14397.5	14231.1	60	Marcellus
38	07/27/2022	14195.5	14029.1	60	Marcellus
39	07/28/2022	13993.4	13827.0	60	Marcellus
40	07/28/2022	13791.3	13625.0	60	Marcellus
41	07/28/2022	13589.3	13422.9	60	Marcellus
42	07/28/2022	13387.2	13220.8	60	Marcellus
43	07/28/2022	13185.2	13018.8	60	Marcellus
44	07/29/2022	12983.1	12816.7	60	Marcellus
45	07/29/2022	12781.0	12614.7	60	Marcellus
46	07/29/2022	12579.0	12412.6	60	Marcellus
47	07/29/2022	12376.9	12210.6	60	Marcellus
48	07/29/2022	12174.9	12008.5	60	Marcellus
49	07/30/2022	11972.8	11806.4	60	Marcellus
50	07/30/2022	11770.8	11604.4	60	Marcellus
51	07/30/2022	11568.7	11402.3	60	Marcellus
52	07/30/2022	11366.6	11200.3	60	Marcellus
53	07/30/2022	11164.6	10998.2	60	Marcellus
54	07/30/2022	10962.5	10796.2	60	Marcellus
55	07/31/2022	10760.5	10594.1	60	Marcellus
56	07/31/2022	10558.4	10392.0	60	Marcellus
57	07/31/2022	10356.4	10190.0	60	Marcellus
58	08/01/2022	10154.3	9987.9	60	Marcellus
59	08/01/2022	9952.2	9785.9	60	Marcellus
60	08/01/2022	9750.2	9583.8	60	Marcellus
61	08/01/2022	9548.1	9381.7	60	Marcellus
62	08/02/2022	9346.1	9179.7	60	Marcellus
63	08/02/2022	9144.0	8977.6	60	Marcellus
64	08/02/2022	8942.0	8775.6	60	Marcellus
65	08/02/2022	8739.9	8573.5	60	Marcellus
66	08/03/2022	8537.8	8371.5	60	Marcellus
67	08/03/2022	8335.8	8169.4	60	Marcellus
68	08/03/2022	8133.7	7967.3	60	Marcellus
69	08/03/2022	7931.7	7765.3	60	Marcellus
70	08/03/2022	7729.6	7563.2	60	Marcellus
71	08/04/2022	7527.6	7361.2	60	Marcellus
72	08/04/2022	7325.5	7159.1	60	Marcellus
73	08/04/2022	7123.4	6957.1	60	Marcellus
74	08/04/2022	6921.4	6755.0	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	07/12/2022	83.7	9,494	8,563	4,196	174,000	220,439	N/A
2	07/12/2022	94.3	10,050	6,267	4,352	401,870	322,141	N/A
3	07/12/2022	91.2	9,544	3,980	3,898	407,859	330,551	N/A
4	07/13/2022	95.5	9,756	6,432	3,579	400,999	320,219	N/A
5	07/13/2022	95.7	9,684	6,737	4,400	402,370	318,377	N/A
6	07/13/2022	94.8	9,784	6,748	3,435	413,438	330,288	N/A
7	07/14/2022	95.3	10,003	5,049	3,438	397,304	324,376	N/A
8	07/14/2022	95.1	9,679	4,939	3,898	403,220	321,137	N/A
9	07/14/2022	95.6	9,660	6,676	3,650	401,810	308,863	N/A
10	07/16/2022	95.5	9,477	7,030	3,405	413,895	302,170	N/A
11	07/16/2022	95.4	9,843	4,645	3,489	396,212	304,909	N/A
12	07/17/2022	95.8	9,735	6,044	3,400	400,501	299,728	N/A
13	07/18/2022	95.7	9,517	8,110	3,486	414,121	299,974	N/A
14	07/18/2022	95.9	9,775	5,831	3,592	417,235	304,063	N/A
15	07/19/2022	96.1	9,469	3,613	3,671	402,332	294,438	N/A
16	07/19/2022	90.8	9,223	6,330	3,721	410,458	299,175	N/A
17	07/20/2022	97.7	9,762	6,097	4,180	406,975	300,776	N/A
18	07/20/2022	94.6	9,372	9,075	4,353	410,458	330,144	N/A
19	07/20/2022	97.7	9,707	3,712	3,766	411,943	301,924	N/A
20	07/21/2022	97.7	9,442	6,085	3,607	405,330	304,671	N/A
21	07/21/2022	98.3	9,418	5,924	3,610	416,832	307,509	N/A
22	07/22/2022	98.4	9,432	5,418	3,634	401,907	299,028	N/A
23	07/22/2022	97.1	9,413	5,370	3,472	417,612	309,528	N/A
24	07/23/2022	98.4	9,382	5,842	3,729	403,524	295,979	N/A
25	07/23/2022	97.0	9,362	5,519	3,581	401,868	301,536	N/A
26	07/24/2022	94.7	8,917	5,929	3,625	405,768	301,716	N/A
27	07/24/2022	97.7	9,058	4,553	3,852	406,265	323,239	N/A
28	07/25/2022	96.0	8,675	6,015	3,602	402,921	293,801	N/A
29	07/25/2022	97.7	8,854	5,800	3,670	398,242	297,779	N/A
30	07/26/2022	98.5	8,893	5,980	4,054	413,642	304,705	N/A
31	07/26/2022	96.0	8,854	5,936	3,732	410,582	297,522	N/A
32	07/26/2022	97.1	8,882	5,676	3,786	411,424	296,957	N/A
33	07/26/2022	96.9	9,257	6,143	4,021	407,573	301,733	N/A
34	07/26/2022	95.8	9,136	5,558	4,696	401,985	391,474	N/A
35	07/27/2022	99.0	8,950	5,882	4,128	409,075	308,106	N/A
36	07/27/2022	96.7	8,914	4,873	4,018	392,851	293,514	N/A
37	07/27/2022	97.6	8,920	6,163	3,734	408,744	306,767	N/A
38	07/27/2022	98.6	8,770	6,482	4,041	411,114	312,200	N/A
39	07/28/2022	93.9	8,376	5,860	3,903	409,286	305,577	N/A
40	07/28/2022	96.7	8,718	4,630	3,690	406,893	319,725	N/A
41	07/28/2022	95.6	8,558	8,176	3,884	399,313	345,025	N/A
42	07/28/2022	97.6	8,403	5,951	4,270	405,098	306,177	N/A
43	07/28/2022	98.4	8,396	5,324	3,781	402,516	298,356	N/A
44	07/29/2022	98.1	8,261	4,655	4,068	398,123	304,333	N/A
45	07/29/2022	97.8	8,183	6,138	4,062	399,767	298,592	N/A
46	07/29/2022	97.9	8,474	5,613	3,788	395,858	293,436	N/A
47	07/29/2022	97.3	8,323	0	3,883	407,382	293,421	N/A
48	07/29/2022	97.8	8,295	5,898	3,802	403,541	304,303	N/A
49	07/30/2022	98.9	8,460	6,457	3,721	398,723	295,396	N/A
50	07/30/2022	98.1	8,438	6,765	3,600	408,120	300,626	N/A
51	07/30/2022	92.6	8,516	5,295	3,339	413,611	315,518	N/A
52	07/30/2022	97.9	8,006	5,176	3,768	402,655	290,915	N/A
53	07/30/2022	98.4	7,988	5,889	3,932	408,679	300,710	N/A
54	07/30/2022	98.6	7,948	5,417	3,632	398,665	296,186	N/A
55	07/31/2022	98.5	8,197	6,603	3,540	404,632	296,858	N/A
56	07/31/2022	97.4	8,053	5,824	3,547	405,480	295,398	N/A
57	07/31/2022	97.7	7,865	6,038	3,581	407,515	298,124	N/A
58	08/01/2022	46.8	5,962	4,848	4,563	412,793	418,684	N/A
59	08/01/2022	95.6	8,280	6,472	3,600	388,387	287,281	N/A
60	08/01/2022	93.3	7,460	6,113	4,258	408,105	314,652	N/A
61	08/01/2022	98.1	7,386	5,414	3,661	406,611	295,735	N/A
62	08/02/2022	97.1	7,438	5,714	3,599	400,206	285,426	N/A
63	08/02/2022	95.7	7,373	4,791	3,913	415,638	293,457	N/A
64	08/02/2022	95.2	7,161	5,132	3,565	404,255	281,996	N/A
65	08/02/2022	98.6	7,358	5,713	3,698	409,360	291,488	N/A
66	08/03/2022	98.0	7,208	4,545	3,683	405,277	292,928	N/A
67	08/03/2022	95.4	7,133	5,060	4,481	409,228	291,738	N/A
68	08/03/2022	96.2	7,162	5,365	3,950	398,567	286,621	N/A
69	08/03/2022	94.7	7,286	5,854	3,968	406,919	291,646	N/A
70	08/03/2022	98.5	7,249	5,197	3,600	410,024	329,313	N/A
71	08/04/2022	94.1	7,275	4,849	3,585	407,115	319,466	N/A
72	08/04/2022	97.6	7,047	5,272	3,652	411,065	290,606	N/A
73	08/04/2022	97.0	7,021	5,495	3,762	396,800	274,550	N/A
74	08/04/2022	96.6	6,875	4,939	3,665	433,644	281,691	N/A
AVG=		96	8,597	5,696	3,804	29,814,110	22,567,410	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
Sandstone	370	420	370	420
Silty Sandstone, Tr Shale	420	470	420	470
Sandy Siltstone, occ Shale	470	670	470	670
Silty Sandstone, tr Shale	670	820	670	820
Sandstone, Tr coal	820	1,020	820	1,020
Sandstone, occ Shale, Tr siltstone	1,020	1,170	1,020	1,170
Shaley Sandstone	1,170	1,270	1,170	1,270
Sandstone, Tr coal	1,270	1,420	1,270	1,420
Silty Sandstone, occ Shale	1,420	1,470	1,420	1,470
Silty Sandstone, tr Shale	1,470	1,520	1,470	1,520
Sandy Siltstone	1,520	1,620	1,520	1,620
Sandstone, occ Siltstone	1,620	1,720	1,620	1,720
Sandy Siltstone; tr drsy pyr	1,720	1,723	1,720	1,721
Big Lime	1,723	2,173	1,721	2,218
Fifty Foot Sandstone	2,173	2,579	2,218	2,661
Gordon	2,579	2,751	2,661	2,853
Fifth Sandstone	2,751	3,047	2,853	3,190
Bayard	3,047	3,715	3,190	3,935
Speechley	3,715	4,002	3,935	4,244
Balltown	4,002	4,434	4,244	4,703
Bradford	4,434	4,727	4,703	5,024
Benson	4,727	4,954	5,024	5,275
Alexander	4,954	5,856	5,275	6,343
Sycamore	5,856	5,953	6,343	6,498
Middlesex	5,953	6,030	6,498	6,645
Burkett	6,030	6,056	6,645	6,703
Marcellus	6,056	NA	6,703	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.

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## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/12/2022
Job End Date:	8/4/2022
State:	West Virginia
County:	Tyler
API Number:	47-095-02781-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Wable 2H
Latitude:	39.54446000
Longitude:	-80.95484000
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,266
Total Base Water Volume (gal):	23,821,622
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	86.98331	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.16582	

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53



Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
FDP-S1443-21	Halliburton	Corrosion Inhibitor					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Premium White-30/70	Halliburton	Proppant					
				Listed Below			

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

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			Crystalline silica, quartz	14808-60-7	100.00000	12.80765	
			Hydrochloric acid	7647-01-0	30.00000	0.03994	
			Guar gum	9000-30-0	100.00000	0.02617	
			Complex Amine Compound	Proprietary	60.00000	0.02449	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01224	
			Glutaraldehyde	111-30-8	30.00000	0.00246	
			Surfactant	Proprietary	5.00000	0.00204	
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00204	
			Ammonium persulfate	7727-54-0	100.00000	0.00055	
			Ethoxylated alcohols	Proprietary	30.00000	0.00048	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00041	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00041	
			Organic chloride compound	Proprietary	1.00000	0.00041	
			Methanol	67-56-1	100.00000	0.00024	
			Oxylated phenolic resin	Proprietary	30.00000	0.00017	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	10.00000	0.00002	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	5.00000	0.00001	
			Aldehyde	Proprietary	5.00000	0.00001	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00001	
			Organic salt #2	Proprietary	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Organic salt #1	Proprietary	0.01000	0.00000	
			Sodium glycolate	2836-32-0	0.01000	0.00000	

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 JAN 2 2023  
 WV Department of  
 Environmental Protection

			Acrylamide	79-06-1	0.01000	0.00000	
			Formaldehyde	50-00-0	0.01000	0.00000	
			1-Hexadecene	629-73-2	1.00000	0.00000	
			1-Octadecene	112-88-9	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%

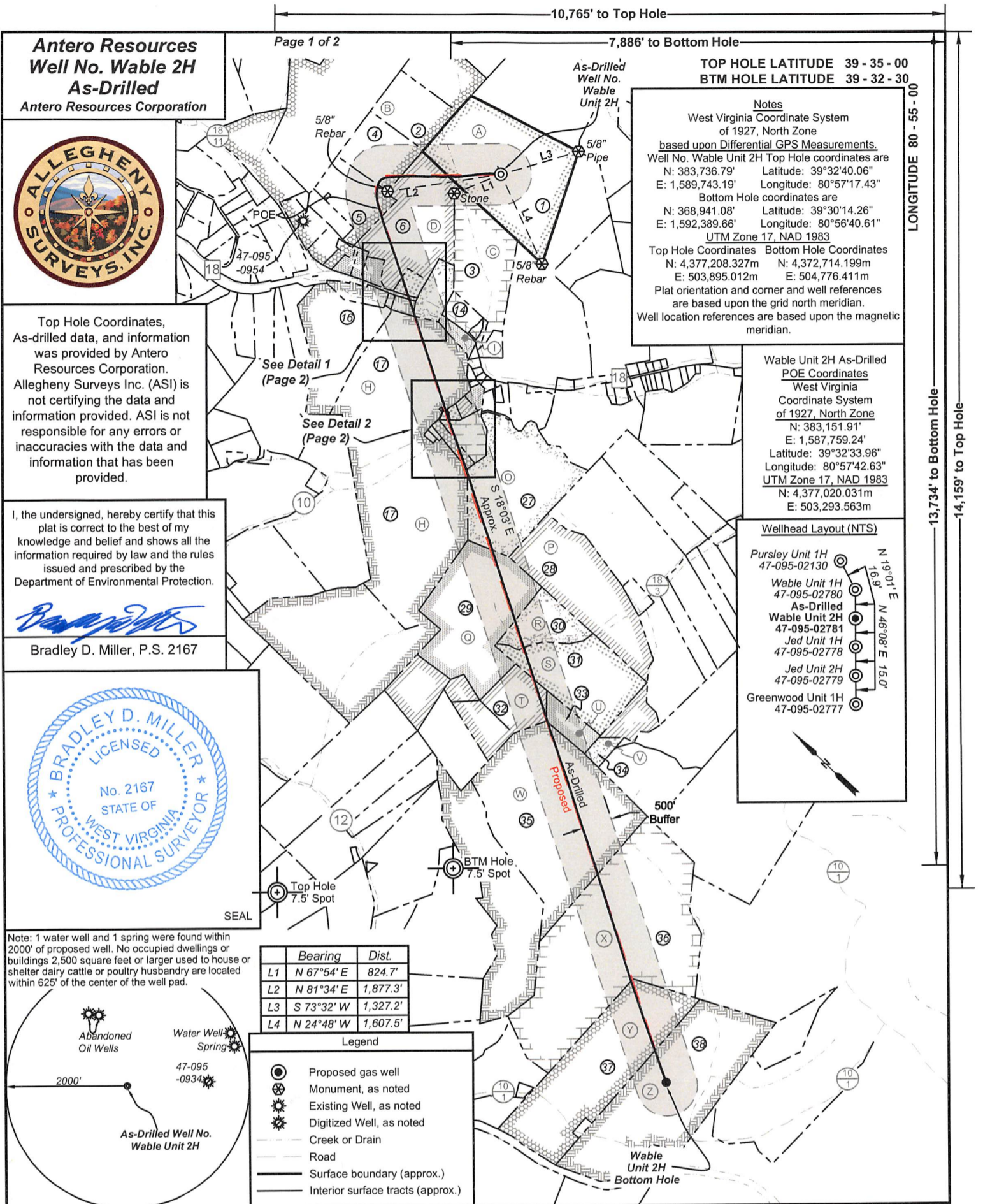
\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

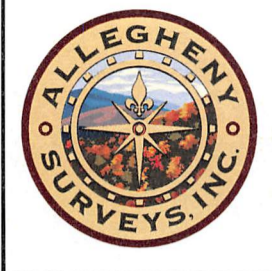
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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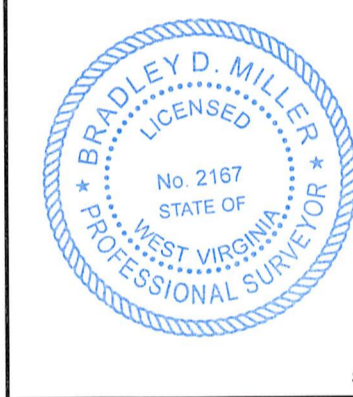
**Antero Resources**  
**Well No. Wable 2H**  
**As-Drilled**  
 Antero Resources Corporation



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*  
 Bradley D. Miller, P.S. 2167



Note: 1 water well and 1 spring 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	N 67°54' E	824.7'
L2	N 81°34' E	1,877.3'
L3	S 73°32' W	1,327.2'
L4	N 24°48' W	1,607.5'

**Legend**

- Proposed gas well
- Monument, as noted
- Existing Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

**TOP HOLE LATITUDE 39 - 35 - 00**  
**BTM HOLE LATITUDE 39 - 32 - 30**

**Notes**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Wable Unit 2H Top Hole coordinates are N: 383,736.79' Latitude: 39°32'40.06" E: 1,589,743.19' Longitude: 80°57'17.43" Bottom Hole coordinates are N: 368,941.08' Latitude: 39°30'14.26" E: 1,592,389.66' Longitude: 80°56'40.61" UTM Zone 17, NAD 1983 Top Hole Coordinates Bottom Hole Coordinates N: 4,377,208.327m N: 4,372,714.199m E: 503,895.012m E: 504,776.411m Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

**Wable Unit 2H As-Drilled POE Coordinates**  
 West Virginia Coordinate System of 1927, North Zone  
 N: 383,151.91'  
 E: 1,587,759.24'  
 Latitude: 39°32'33.96"  
 Longitude: 80°57'42.63"  
 UTM Zone 17, NAD 1983  
 N: 4,377,020.031m  
 E: 503,293.563m

**Wellhead Layout (NTS)**

- Pursley Unit 1H 47-095-02130
- Wable Unit 1H 47-095-02780
- As-Drilled Wable Unit 2H 47-095-02781
- Jed Unit 1H 47-095-02778
- Jed Unit 2H 47-095-02779
- Greenwood Unit 1H 47-095-02777

FILE NO: 270-54-L-13  
 DRAWING NO: Wable 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: December 6 2022  
 OPERATOR'S WELL NO. Wable Unit 2H  
 API WELL NO  
 47 - 095 - 02781  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 971.8' WATERSHED: Middle Island Creek QUADRANGLE: Paden City 80; 48.1; 212.4; 3; 9.4; 2.44; 71.93152; 71.99; 466.7273; 61.225; 205.862; 50.0; 8.66; 17.0; 49.66; 140.0; 127.39

DISTRICT: Lincoln Robert D. & Virginia A. Nalley SURFACE OWNER: Robert D. & Virginia A. Nalley ROYALTY OWNER: Robert D. Nalley, et ux (2); Robert L. Keller; Kenneth R. Hunt; George E. Miller, et ux; LEASE NO: Donald H. Lancaster, Jr.; Donna Smith; Ridgetop Capital, LP; BRC Appalachian Minerals I, LLC (3); Gerald C. Clutter, et ux; Valerie M. Ritter; Matthew Goodfellow; William P. Ingram; Larry Folger; Stacey Lynn Carney, et vir; Debra Lynn Warner; Dena Raye Grimes; ACREAGE: 80.00

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: 21,687' MD 6,267' TVD

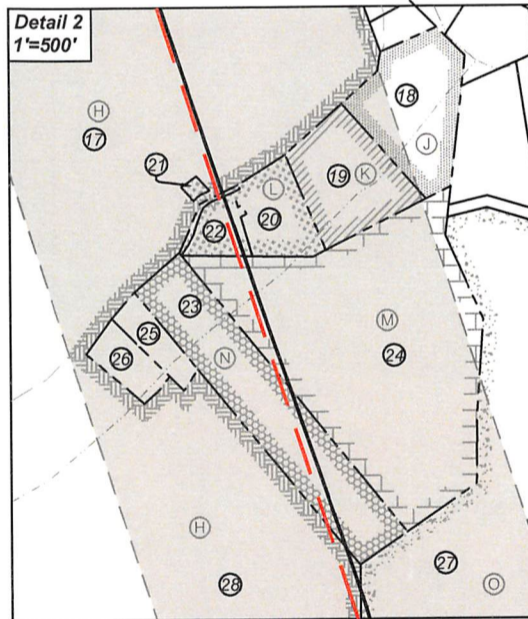
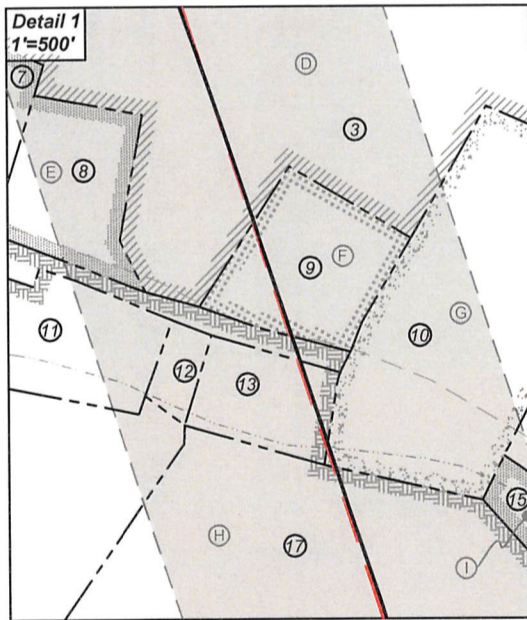
WELL OPERATOR: Antero Resources Corporation ADDRESS: 1615 Wynkoop Street Denver, CO 80202  
 DESIGNATED AGENT: Kevin Ellis ADDRESS: 535 White Oaks Blvd. Bridgeport, WV 26330





Leases	
A	Robert D. Nalley, et ux
B	Robert L. Keller
C	Robert D. Nalley, et ux
D	Robert D. Nalley, et ux
E	Robert D. Nalley, et ux
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G	George E. Miller, et ux
H	William P. Ingram
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J	Lisa J. York
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L	Stacey Lynn Carney, et vir
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V	Ridgetop Capital, LP
W	Ridgetop Capital, LP
X	Donald H. Lancaster, Jr.
Y	Debra Lynn Warner
Z	Donna Smith

ID	TM/Par	Owner	Bk/Pg	Acres
1	8-54	Robert D. & Virginia A. Nalley	198/41	80.00
2	8-38.3	Joann & Howard L. Schupbach Jr.	467/383	21.17
3	12-13	Robert D. & Virginia A. Nalley	183/452	38.75
4	8-38.5	Donald D. & Alice J. Haight	300/583	21.17
5	8-38.6	Joann & Howard L. Schupbach Jr.	467/383	21.17
6	8-53	Robert D. & Virginia A. Nalley	200/53	48.10
7	12-7	Robert D & Virginia Nalley	285/385	2.04
8	12-8	Robert D. & Virginia Nalley	305/151	3.80
9	12-11	Kenneth R. & Mary Joanne Hunt	231/387	3.00
10	12-12	George & Mary Jo Miller	195/44	9.33
11	12-9.1	WV DOT, Division of Highways	332/271	6.00
12	12-10	Joseph E. Miller	373/702	0.88
13	12-9.2	Joseph E. & Stephanie L. Miller	422/765	2.12
14	12-14	Robert D. Nalley	393/662	7.35
15	12-28	Warren C. & Erica N. Conklin	400/261	3.75
16	12-9	William P. & Joanne M. Ingram	174/60	43.10
17	12-27	William P. & Joanne Ingram	156/175	183.16
18	12-32	David R. & Nancy J. Goodfellow	311/618	1.94
19	12-32.1	Kay K. & Donald L. Steward	311/676	1.66
20	12-31	Stacey L. & Danny Carney	W53/701	0.98
21	12-29	Pursley Curch of Christ	510/662	0.06
22	12-30	Pursley Curch of Christ	510/662	0.50
23	12-37	Valerie Marie Grimes	379/35	3.32
24	12-38	Dena Grimes	W35/150	9.64
25	12-36	William A. & Tracy Fletcher	227/51	0.46
26	12-27.1	William & Tracy Fletcher	379/501	0.50
27	12-39	Stacey Carney, et al	W53/701	71.90
28	12-52	Leslie Ray Tennant	382/603	69.15
29	12-51	Rickie Lee Littleton	281/193	61.23
30	12-61	Melinda A. King	568/757	17.00
31	12-62	Leslie Ray Tennant, et al	282/305	50.00
32	12-60	Gerald C. & Mary Lou Clutter	286/350	17.50
33	12-63	Melinda A. King	568/757	8.66
34	12-64	Ridgetop Capital, LP	375/206	3.33
35	15-9	Ridgetop Capital, LP	375/206	120.00
36	15-13	B. F., Ben H. & Ida M. Kile	174/412	140.00
37	15-16	Mary Ann Devine, et al	W36/282	81.67
38	15-17	Earl & Donna Smith	191/12	127.39



FILE NO: 270-54-L-13  
 DRAWING NO: Wable 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: December 6 2022  
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 API WELL NO  
 47 - 095 - 02781  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 971.8' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City 80; 48.1; 212.4; 3; 9.4; 2.44; 71.93152;  
 DISTRICT: Lincoln Robert D. & Virginia A. Nalley COUNTY: Lincoln 03/17/2023  
 SURFACE OWNER: Virginia A. Nalley Donald H. Lancaster, Jr.; Donna Smith; Ridgetop Capital, LP; BRC Appalachian Minerals I, LLC (3); Gerald C. Clutter, et ux  
 ROYALTY OWNER: Robert D. Nalley, et ux (2); Robert L. Keller; Kenneth R. Hunt; George E. Miller, et ux; Valerie M. Ritter; Matthew Goodfellow; William P. Ingram; Larry Folger; Stacey Lynn Carney, et vir; Debra Lynn Warner; Dena Raye Grimes; ACREAGE: 80.00 61.225; 205.862; 50.0; 8.66; 17.0; LEASE NO: ACREAGE: 49.66; 140.0; 127.39

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,267' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,687' 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. Wable 2H**  
**As-Drilled**  
 Antero Resources Corporation



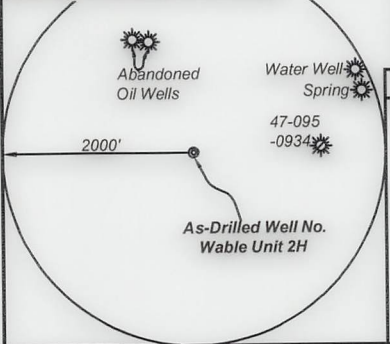
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Bradley D. Miller, P.S. 2167



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L2	N 81°34' E	1,877.3'
L3	S 73°32' W	1,327.2'
L4	N 24°48' W	1,607.5'

- Legend
- Proposed gas well
  - Monument, as noted
  - Existing Well, as noted
  - Digitized Well, as noted
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  - Road
  - Surface boundary (approx.)
  - Interior surface tracts (approx.)

10,765' to Top Hole

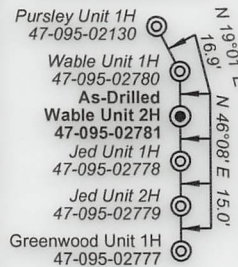
7,886' to Bottom Hole

TOP HOLE LATITUDE 39 - 35 - 00  
 BTM HOLE LATITUDE 39 - 32 - 30

**Notes**  
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 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
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 E: 503,895.012m E: 504,776.411m  
 Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

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 Longitude: 80°57'42.63"  
 UTM Zone 17, NAD 1983  
 N: 4,377,020.031m  
 E: 503,293.563m

**Wellhead Layout (NTS)**



LONGITUDE 80 - 55 - 00

13,734' to Bottom Hole

14,159' to Top Hole

FILE NO: 270-54-L-13

DRAWING NO: Wable Unit 2H As-Drilled

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: Submeter

PROVEN SOURCE OF ELEVATION: WV DOT, Harrisville, WV

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

DATE: December 6 2022

OPERATOR'S WELL NO. Wable Unit 2H

API WELL NO

47 - 095 - 02781  
 STATE COUNTY PERMIT

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DISTRICT: Lincoln Robert D. & Donald H. Lancaster, Jr.; Donna Smith; Ridgetop Capital, LP; BRC Appalachian Minerals I, LLC (3); Gerald C. Clutter, et ux COUNTY: 03/17/2023  
 SURFACE OWNER: Virginia A. Nalley Valerie M. Ritter; Matthew Goodfellow; William P. Ingram; Larry Folger; 71.99; 466.7275; 61.225; 205.862; 50.0; 8.66; 17.0;

ROYALTY OWNER: Robert D. Nalley, et ux (2); Robert L. Keller; Kenneth R. Hunt; George E. Miller, et ux; LEASE NO: ACREAGE: 49.66; 140.0; 127.39

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DESIGNATED AGENT: Kevin Ellis

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 Denver, CO 80202

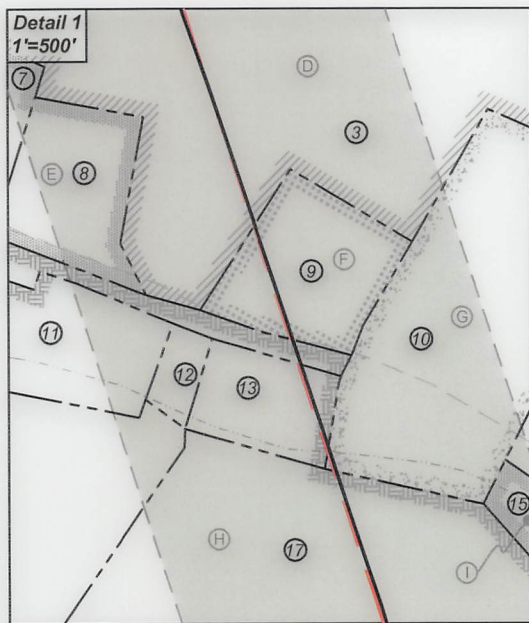
ADDRESS: 535 White Oaks Blvd.  
 Bridgeport, WV 26330





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10	12-12	George & Mary Jo Miller	195/44	9.33
11	12-9.1	WV DOT, Division of Highways	332/271	6.00
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22	12-30	Pursley Curch of Christ	510/662	0.50
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25	12-36	William A. & Tracy Fletcher	227/51	0.46
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29	12-51	Rickie Lee Littleton	281/193	61.23
30	12-61	Melinda A. King	568/757	17.00
31	12-62	Leslie Ray Tennant, et al	282/305	50.00
32	12-60	Gerald C. & Mary Lou Clutter	286/350	17.50
33	12-63	Melinda A. King	568/757	8.66
34	12-64	Ridgetop Capital, LP	375/206	3.33
35	15-9	Ridgetop Capital, LP	375/206	120.00
36	15-13	B. F., Ben H. & Ida M. Kile	174/412	140.00
37	15-16	Mary Ann Devine, et al	W36/282	81.67
38	15-17	Earl & Donna Smith	191/12	127.39



FILE NO: 270-54-L-13  
 DRAWING NO: Wable 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: December 6 2022  
 OPERATOR'S WELL NO. Wable Unit 2H  
 API WELL NO  
 47 -- 095 -- 02781  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 971.8' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City 80; 48.1; 212.4; 3; 9.4; 2.44; 71.93152;  
 DISTRICT: Lincoln Robert D. & Virginia A. Nalley COUNTY: 03/17/2023  
 SURFACE OWNER: Virginia A. Nalley Donald H. Lancaster, Jr.; Donna Smith; Ridgetop Capital, LP; BRC Appalachian Minerals I, LLC (3); Gerald C. Clutter, et ux 71.99; 466.7275;  
 ROYALTY OWNER: Robert D. Nalley, et ux (2); Robert L. Keller; Kenneth R. Hunt; George E. Miller, et ux; LEASE NO: ACREAGE: 80.00 61.225; 205.862;  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION 50.0; 8.66; 17.0;  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled ACREAGE: 49.66; 140.0; 127.39  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,687' MD 6,267' TVD

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