

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

API 47 - 095 - 02697 County Tyler District Ellsworth  
Quad Porter Falls Pad Name Pyles Pad Field/Pool Name -----  
Farm name Richard D Pyles Well Number Seagrave 1H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop St 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 4372701m Easting 514001m  
Landing Point of Curve Northing 4372845.33m Easting 514272.26m  
Bottom Hole Northing 4377370m Easting 512716m

Elevation (ft) 1081' 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 06/05/2020 Date drilling commenced 8/16/2020 Date drilling ceased 9/20/2020  
Date completion activities began 1/2/2021 Date completion activities ceased 2/15/2021  
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 61 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2200 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by: [Signature]  
2/12/23  
03/17/2023

API 47-095 - 02697 Farm name Richard D Pyles Well number Seagrave 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	80'	New	94# H-40	N/A	Y
Surface	17-1/2"	13-3/8"	346'	New	54.5# J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2646'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	22922'	New	23# P-110	N/A	Y
Tubing		2-3/8"	6940'		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	285 sx	15.6	1.18	60	0	8 Hrs
Surface	Class A	430 sx	15.6	1.20	76	0	8 Hrs
Coal							
Intermediate 1	Class A	1019 sx	15.6	1.19	191	0	8 Hrs
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3623 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	815	-500' into Intermediate Casing	8 Hrs
Tubing							

Drillers TD (ft) 22965' MD, 6535' TVD (BHL), 6649' (Deepest Point Drilled) Loggers TD (ft) 22965' MD

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

Plug back procedure N/A

Kick off depth (ft) 5972'

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 on 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 \_\_\_\_\_

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API 47- 095 - 02697 Farm name Richard D Pyles Well number Seagrave 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6601' (Top) TVD</u>	<u>7008' (Top) MD</u>
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 12933 mcfpd Oil 493 bpd NGL --- bpd Water 2974 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 <sub>2</sub> S, ETC)
	<u>0</u>		<u>0</u>		
<b>*PLEASE SEE ATTACHED EXHIBIT 3</b>					
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Please insert additional pages as applicable.

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

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

Cementing Company Schlumberger Oilfield Services  
Address 300 Schlumberger Dr City Sugarland State TX Zip 77478

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 2/2/2023

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

03/17/2023

SM  
2/2/23



**Exhibit 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	01/02/2021	22848.9	22804.8	60	Marcellus
2	01/03/2021	22765.95556	22599.7333	60	Marcellus
3	01/03/2021	22564.08889	22397.8667	60	Marcellus
4	01/04/2021	22362.22222	22196	60	Marcellus
5	01/04/2021	22160.35556	21994.1333	60	Marcellus
6	01/04/2021	21958.48889	21792.2667	60	Marcellus
7	01/05/2021	21756.62222	21590.4	60	Marcellus
8	01/05/2021	21554.75556	21388.5333	60	Marcellus
9	01/05/2021	21352.88889	21186.6667	60	Marcellus
10	01/06/2021	21151.02222	20984.8	60	Marcellus
11	01/06/2021	20949.15556	20782.9333	60	Marcellus
12	01/07/2021	20747.28889	20581.0667	60	Marcellus
13	01/07/2021	20545.42222	20379.2	60	Marcellus
14	01/08/2021	20343.55556	20177.3333	60	Marcellus
15	01/08/2021	20141.68889	19975.4667	60	Marcellus
16	01/08/2021	19939.82222	19773.6	60	Marcellus
17	01/09/2021	19737.95556	19571.7333	60	Marcellus
18	01/09/2021	19536.08889	19369.8667	60	Marcellus
19	01/10/2021	19334.22222	19168	60	Marcellus
20	01/10/2021	19132.35556	18966.1333	60	Marcellus
21	01/10/2021	18930.48889	18764.2667	60	Marcellus
22	01/11/2021	18728.62222	18562.4	60	Marcellus
23	01/11/2021	18526.75556	18360.5333	60	Marcellus
24	01/11/2021	18324.88889	18158.6667	60	Marcellus
25	01/12/2021	18123.02222	17956.8	60	Marcellus
26	01/12/2021	17921.15556	17754.9333	60	Marcellus
27	01/12/2021	17719.28889	17553.0667	60	Marcellus
28	01/13/2021	17517.42222	17351.2	60	Marcellus
29	01/13/2021	17315.55556	17149.3333	60	Marcellus
30	01/13/2021	17113.68889	16947.4667	60	Marcellus
31	01/14/2021	16911.82222	16745.6	60	Marcellus
32	01/14/2021	16709.95556	16543.7333	60	Marcellus
33	01/14/2021	16508.08889	16341.8667	60	Marcellus
34	01/15/2021	16306.22222	16140	60	Marcellus
35	01/15/2021	16104.35556	15938.1333	60	Marcellus
36	01/15/2021	15902.48889	15736.2667	60	Marcellus
37	01/16/2021	15700.62222	15534.4	60	Marcellus
38	01/16/2021	15498.75556	15332.5333	60	Marcellus
39	01/16/2021	15296.88889	15130.6667	60	Marcellus
40	01/16/2021	15095.02222	14928.8	60	Marcellus
41	01/17/2021	14893.15556	14726.9333	60	Marcellus
42	01/17/2021	14691.28889	14525.0667	60	Marcellus
43	01/18/2021	14489.42222	14323.2	60	Marcellus
44	01/18/2021	14287.55556	14121.3333	60	Marcellus
45	01/18/2021	14085.68889	13919.4667	60	Marcellus
46	01/18/2021	13883.82222	13717.6	60	Marcellus
47	01/19/2021	13681.95556	13515.7333	60	Marcellus
48	01/19/2021	13480.08889	13313.8667	60	Marcellus
49	01/19/2021	13278.22222	13112	60	Marcellus
50	01/20/2021	13076.35556	12910.1333	60	Marcellus
51	01/20/2021	12874.48889	12708.2667	60	Marcellus
52	01/20/2021	12672.62222	12506.4	60	Marcellus
53	01/21/2021	12470.75556	12304.5333	60	Marcellus
54	01/21/2021	12268.88889	12102.6667	60	Marcellus
55	01/21/2021	12067.02222	11900.8	60	Marcellus
56	01/22/2021	11865.15556	11698.9333	60	Marcellus
57	01/22/2021	11663.28889	11497.0667	60	Marcellus
58	01/22/2021	11461.42222	11295.2	60	Marcellus
59	01/23/2021	11259.55556	11093.3333	60	Marcellus
60	01/23/2021	11057.68889	10891.4667	60	Marcellus
61	01/23/2021	10855.82222	10689.6	60	Marcellus
62	01/23/2021	10653.95556	10487.7333	60	Marcellus
63	01/24/2021	10452.08889	10285.8667	60	Marcellus
64	01/24/2021	10250.22222	10084	60	Marcellus
65	01/24/2021	10048.35556	9882.13333	60	Marcellus
66	01/25/2021	9846.48889	9680.26667	60	Marcellus
67	01/25/2021	9644.62222	9478.4	60	Marcellus
68	01/25/2021	9442.75556	9276.53333	60	Marcellus
69	01/25/2021	9240.88889	9074.66667	60	Marcellus
70	01/26/2021	9039.02222	8872.8	60	Marcellus
71	01/26/2021	8837.15556	8670.93333	60	Marcellus
72	01/26/2021	8635.28889	8469.06667	60	Marcellus
73	01/27/2021	8433.42222	8267.2	60	Marcellus
74	01/27/2021	8231.55556	8065.33333	60	Marcellus
75	01/27/2021	8029.68889	7863.46667	60	Marcellus
76	01/27/2021	7827.82222	7661.6	60	Marcellus
77	01/28/2021	7625.95556	7459.73333	60	Marcellus
78	01/28/2021	7424.08889	7257.86667	60	Marcellus
79	01/28/2021	7222.22222	7056	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	01/02/2021	79.58	9903	6294	3217	183300	217244	N/A
2	01/03/2021	86.61	10373	5989	4280	415800	330249	N/A
3	01/03/2021	85.53	10010	4580	4325	413220	320452	N/A
4	01/04/2021	89.43	9908	5077	3975	405020	312345	N/A
5	01/04/2021	81.86	10085	4337	3514	411090	312658	N/A
6	01/04/2021	86.81	10073	5824	4169	407700	307956	N/A
7	01/05/2021	88.57	10061	5437	3839	411410	309239	N/A
8	01/05/2021	88.33	10065	4132	4056	412450	317864	N/A
9	01/05/2021	84.58	9758	5443	4131	406710	306297	N/A
10	01/06/2021	87.38	10063	4121	4257	411310	309107	N/A
11	01/06/2021	92.21	10048	5525	4238	408240	296183	N/A
12	01/07/2021	85.08	10057	6141	4007	409670	307547	N/A
13	01/07/2021	87.3	10048	5547	3767	406150	308992	N/A
14	01/08/2021	90.32	10024	5406	4053	411850	308524	N/A
15	01/08/2021	85.45	10077	5828	3868	413970	310728	N/A
16	01/08/2021	89.61	10074	5802	3916	409660	311221	N/A
17	01/09/2021	89.41	9754	5610	4325.15	410940	331931	N/A
18	01/09/2021	85.44	10053	6076	3759	406790	307466	N/A
19	01/10/2021	88.58	9964	5739	4158	410700	306356	N/A
20	01/10/2021	88.54	10059	5126	4303	406020	308422	N/A
21	01/10/2021	93.86	9878	5216	4481	411100	306075	N/A
22	01/11/2021	94.17	10048	4277	4264	411890	306731	N/A
23	01/11/2021	81.66	9773	5385	4026	413320	301136	N/A
24	01/11/2021	94.84	9754	5066	4109	406170	304006	N/A
25	01/12/2021	89.75	10092	5373	4433	413030	303523	N/A
26	01/12/2021	94.37	9995	4981	4344	407090	298199	N/A
27	01/12/2021	93.12	10048	5212	3997.5	409870	304008	N/A
28	01/13/2021	91.33	9871	5283	4093	409820	303095	N/A
29	01/13/2021	93.3	9750	5414	4228	409530	299147	N/A
30	01/13/2021	81.1	9354	5764	3973.07	412230	352141	N/A
31	01/14/2021	83.8	9483	5655	4385	411970	302676	N/A
32	01/14/2021	95.23	9803	5538	3804	407100	297063	N/A
33	01/14/2021	93.93	9540	6207	3739	412120	298467	N/A
34	01/15/2021	95	9631	5816	4317	411810	301231	N/A
35	01/15/2021	95.7	10050	5762	3834	411250	298268	N/A
36	01/15/2021	96.81	9826	6159	4009	410820	303536	N/A
37	01/16/2021	96.02	9708	5482	4266	416010	302441	N/A
38	01/16/2021	97.5	9686	5893	4270	413330	301081	N/A
39	01/16/2021	96.22	9641	6224	4080	414510	296940	N/A
40	01/16/2021	93.89	9550	6065	3876	405490	297334	N/A
41	01/17/2021	94.09	9917	5436	4255	409830	294394	N/A
42	01/17/2021	92.54	9918	5797	4429	405050	297614	N/A
43	01/18/2021	93.59	9922	5851	3931	409770	299326	N/A
44	01/18/2021	95.84	9778	5243	3882	406250	296669	N/A
45	01/18/2021	95.35	9793	5640	4371	408790	293632	N/A
46	01/18/2021	97	9781	4460	3779	407540	296709	N/A
47	01/19/2021	96.12	9077	6284	4613	411360	296359	N/A
48	01/19/2021	95.57	9093	6200	4335	409930	292405	N/A
49	01/19/2021	93.88	9031	5572	3877	411840	293834	N/A
50	01/20/2021	96.5	9047	5446	3619	409170	291630	N/A
51	01/20/2021	72.09	8798	5761	4055	410870	396774	N/A
52	01/20/2021	96.54	9056	5530	4297	405980	287666	N/A
53	01/21/2021	95.81	9056	5419	4421	408920	289509	N/A
54	01/21/2021	96.26	9016	5643	3996	408730	291570	N/A
55	01/21/2021	96.2	9020	5589	4614	407900	290809	N/A
56	01/22/2021	97.3	8756	5368	4709	413360	291829	N/A
57	01/22/2021	93.3	8956	5640	4071	410280	288780	N/A
58	01/22/2021	96.64	8777	5710	4347	410940	287998	N/A
59	01/23/2021	97.34	8973	5619	4041	407870	289336	N/A
60	01/23/2021	95.76	9006	5512	4183	404190	285464	N/A
61	01/23/2021	96.46	9046	5468	3871	408950	288324	N/A
62	01/23/2021	97.49	8500	5484	4410	412800	291470	N/A
63	01/24/2021	97.9	8314	5736	3849	416470	292956	N/A
64	01/24/2021	95.84	8234	6314	3768	401750	284017	N/A
65	01/24/2021	90.41	8202.45	4109	4185.55	408870	358427	N/A
66	01/25/2021	95.55	8317	5865	4237	411560	289127	N/A
67	01/25/2021	97.54	8122	5365	3835	405790	284083	N/A
68	01/25/2021	96.95	7958	5592	3804	408530	284699	N/A
69	01/25/2021	96.96	8178	6511	3972	413110	293856	N/A
70	01/26/2021	93.55	7545	4865	4912	407970	290791	N/A
71	01/26/2021	97.48	7849	6146	3887	409250	291436	N/A
72	01/26/2021	97.76	8161	6332	4027	413800	292009	N/A
73	01/27/2021	98.04	7952	5738	3917	415050	291089	N/A
74	01/27/2021	98.01	7675	6728	3886	402811	288385	N/A
75	01/27/2021	98.44	7318	5590	4492	404690	290712	N/A
76	01/27/2021	97.57	7620	3341	4043	408360	292651	N/A
77	01/28/2021	97.6	7387	3766	4167	409180	286796	N/A
78	01/28/2021	98.29	7189	5290	4654	409480	285451	N/A
79	01/28/2021	97.05	7096	6591	3633	310240	266368	N/A
	AVG=	93	9,258	5,511	4,102	32,047,691	23,712,834	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
Shale	79	124	79	124
Shaley Siltstone	124	474	124	474
Silty Shale	474	574	474	574
Siltstone, Tr Shale	574	724	574	724
Silty Shale	724	824	724	824
Shaley Sandstone	824	1,024	824	1,024
Shale, Tr Siltstone	1,024	1,274	1,024	1,274
Shale, Tr Sandstone	1,274	1,524	1,274	1,524
Silty Shale	1,524	1,624	1,524	1,624
Sandstone, Tr Shale	1,624	1,724	1,624	1,724
Sandy Shale	1,724	1,774	1,724	1,774
Shaley Siltstone	1,774	1,824	1,774	1,824
Shale	1,824	1,974	1,824	1,996
Big Lime	2,000	2,742	2,022	2,781
Fifty Foot Sandstone	2,742	2,850	2,781	2,891
Gordon	2,850	3,107	2,891	3,154
Fifth Sandstone	3,107	3,179	3,154	3,228
Bayard	3,179	4,045	3,228	4,116
Speechley	4,045	4,176	4,116	4,250
Balltown	4,176	4,708	4,250	4,796
Bradford	4,708	4,999	4,796	5,094
Benson	4,999	5,380	5,094	5,485
Alexander	5,380	6,452	5,485	6,641
Sycamore	6,313	6,426	6,466	6,615
Middlesex	6,426	6,525	6,615	6,782
Burkett	6,525	6,549	6,782	6,836
Tully	6,549	6,601	6,836	7,008
Marcellus	6,601	NA	7,008	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:	1/2/2021
Job End Date:	1/28/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02697-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	SEAGRAVE UNIT 1H
Latitude:	39.50374700
Longitude:	-80.83731100
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,649
Total Base Water Volume (gal):	24,763,916
Total Base Non Water Volume:	0

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 Office of Oil and Gas  
 FEB 06 2023  
 WV Department of  
 Environmental Protection



### 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	86.60849	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.17438	

*JM*



HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
MC B-8614	Halliburton	Biocide					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				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	13.18619	
			Hydrochloric acid	7647-01-0	30.00000	0.03993	
			Complex Amine Compound	Proprietary	60.00000	0.03337	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01668	
			Guar gum	9000-30-0	100.00000	0.00833	
			Surfactant	Proprietary	5.00000	0.00278	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00278	
			Glutaraldehyde	111-30-8	30.00000	0.00238	
			Ethoxylated alcohols	Proprietary	5.00000	0.00057	
			Alkoxyated polyhydric alcohol	Proprietary	1.00000	0.00056	
			Organic chloride compound	Proprietary	1.00000	0.00056	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00040	
			Methanol	67-56-1	100.00000	0.00033	
			Ammonium persulfate	7727-54-0	100.00000	0.00012	
			Ethanol	64-17-5	1.00000	0.00008	
			Modified thiourea polymer	Proprietary	30.00000	0.00007	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00007	
			Oxylated phenolic resin	Proprietary	30.00000	0.00004	
			Hexadecene	629-73-2	5.00000	0.00001	
			Propargyl alcohol	107-19-7	5.00000	0.00001	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	
			Sodium hydroxide	1310-73-2	0.01000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	

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 WV Department of  
 Environmental Protection



			Organic salt #1	Proprietary	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Organic salt #2	Proprietary	0.01000	0.00001	
			Formaldehyde	50-00-0	0.01000	0.00001	
			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%

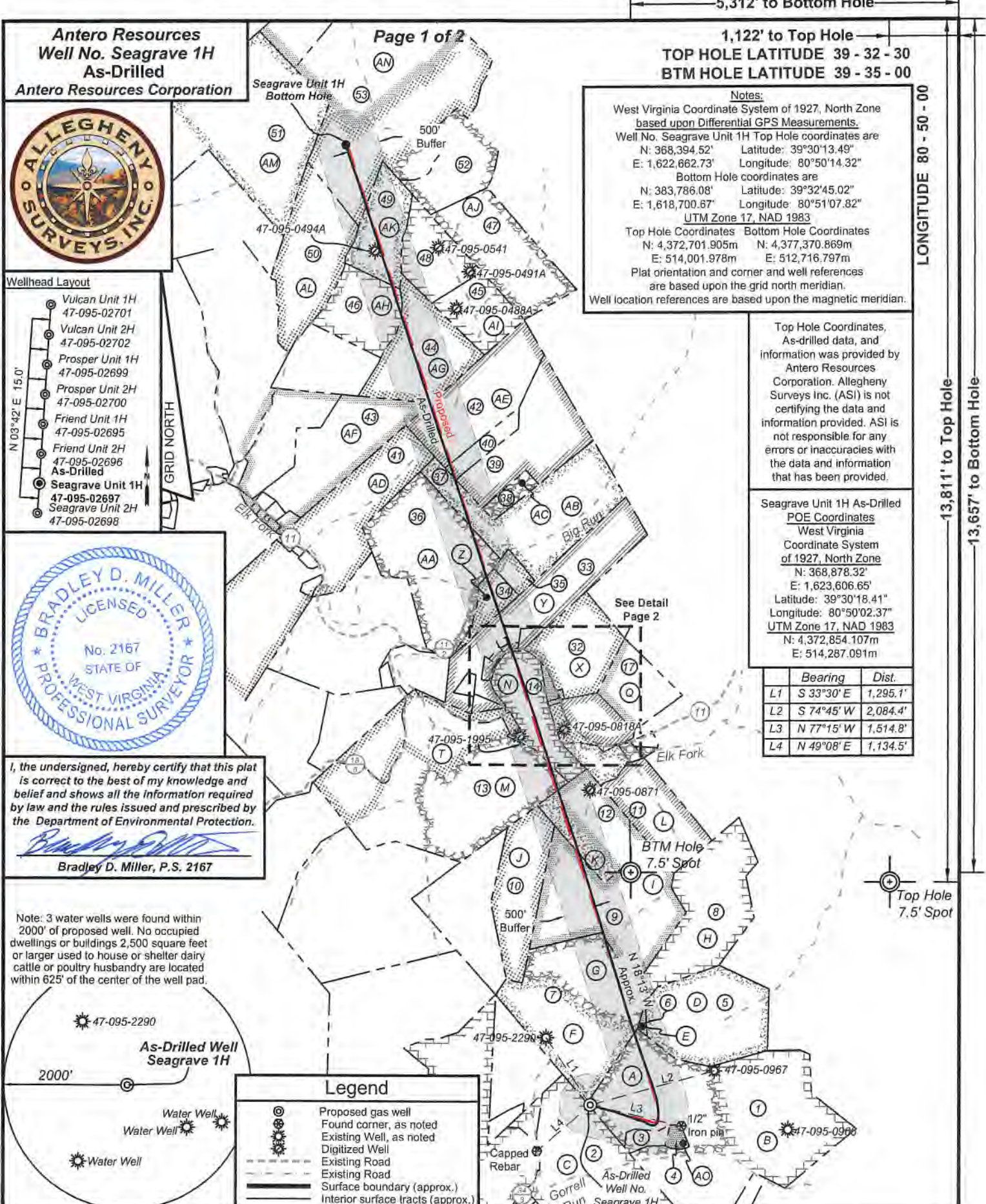
\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

RECEIVED  
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FEB 06 2023  
WV Department of  
Environmental Protection

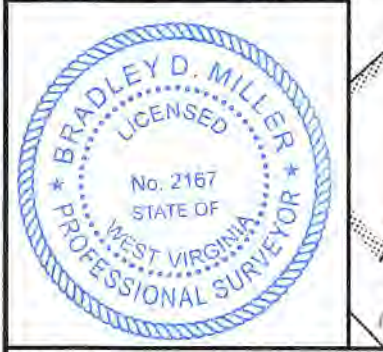




**Antero Resources**  
**Well No. Seagrave 1H**  
**As-Drilled**  
**Antero Resources Corporation**

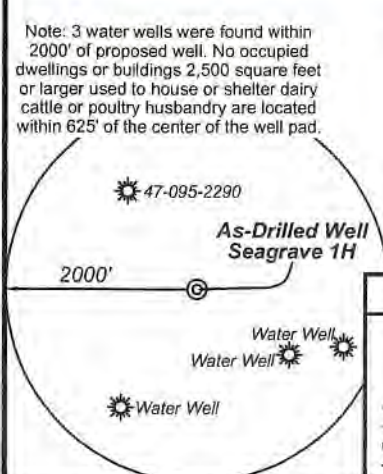


- Wellhead Layout**
- Vulcan Unit 1H  
47-095-02701
  - Vulcan Unit 2H  
47-095-02702
  - Prosper Unit 1H  
47-095-02699
  - Prosper Unit 2H  
47-095-02700
  - Friend Unit 1H  
47-095-02695
  - Friend Unit 2H  
47-095-02696
  - As-Drilled**
  - Seagrave Unit 1H  
47-095-02697
  - Seagrave Unit 2H  
47-095-02698



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**



**Legend**

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

**Notes:**  
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.  
 Well No. Seagrave Unit 1H Top Hole coordinates are  
 N: 368,394.52' Latitude: 39°30'13.49"  
 E: 1,622,662.73' Longitude: 80°50'14.32"  
 Bottom Hole coordinates are  
 N: 383,786.08' Latitude: 39°32'45.02"  
 E: 1,618,700.67' Longitude: 80°51'07.82"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,372,701.905m N: 4,377,370.869m  
 E: 514,001.978m E: 512,716.797m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.

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.

Seagrave Unit 1H As-Drilled POE Coordinates  
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 E: 1,623,606.65'  
 Latitude: 39°30'18.41"  
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 N: 4,372,854.107m  
 E: 514,287.091m

Bearing	Dist.
L1 S 33°30' E	1,295.1'
L2 S 74°45' W	2,084.4'
L3 N 77°15' W	1,514.8'
L4 N 49°08' E	1,134.5'

FILE NO: 100-54-E-19  
 DRAWING NO: Seagrave 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: February 24 2021  
 OPERATOR'S WELL NO. Seagrave 1H  
 API WELL NO  
 47 - 095 - 02697  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls  
 DISTRICT: Ellsworth COUNTY: Tyler  
 SURFACE OWNER: Richard D. Pyles BRC Appalachian Minerals I, LLC (4); B&C Oil & Gas Company (3); Ridgetop Capital; Darrell Sole; Helen M. Karcinski, et al; Rose Enterprises, LLC  
 ROYALTY OWNER: Richard D. Pyles, et ux; Joseph L. Silko, et ux, Will E. Morris Trust; LEASE NO: \_\_\_\_\_ ACREAGE: 168.5  
 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: 6535' TVD  
22,965' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
Denver, CO 80202 Charleston, WV 25313

03/17/2023

5,312' to Bottom Hole

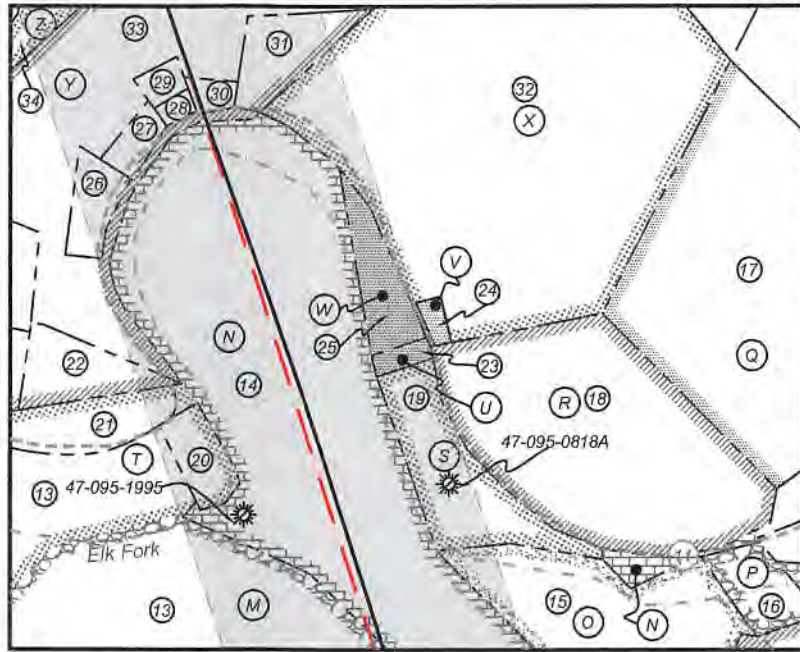
1,122' to Top Hole  
 TOP HOLE LATITUDE 39 - 32 - 30  
 BTM HOLE LATITUDE 39 - 35 - 00

LONGITUDE 80 - 50 - 00

13,811' to Top Hole

13,657' to Bottom Hole





ID	TM/Par	Owner	DB/PG	Acres
1	16-42	Richard D. Pyles	379/20	168.5
2	16-44	Robert A. Pyles, et al	335/482	87.82
3	16-42.1	Richard D. Pyles	336/815	4.56
4	16-42.2	Bonnie J. Hair	569/105	2.44
5	16-24	Harry Eastham, et al	AR54/518	64.00
6	16-21	Kayla Leek	531/56	61.73
7	16-22	Joseph L. Jr. & Karen Sitko	296/13	81.70
8	16-21	Kayla Leek	531/56	67.73
9	16-2	David E. Bowyer	622/775	80.75
10	16-1	Antero Midstream, Inc.	617/739	35.25
11	16-5	David Leek	422/762	34.38
12	16-4	Darrell J. Sole	227/376	35.00
13	15-9	Antero Midstream, Inc.	586/544	132.19
14	11-36	David W. Fiber	574/847	21.16
15	16-52	Darrell Sole	238/145	9.04
16	16-5.3	David Leek	434/453	1.46
17	11-40	Samuel L. & Peggy S. Leek	362/408	21.39
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21	10-52	Darwin & Shirley Martin	306/537	5.00
22	10-72	Darwin & Shirley Martin	322/28	1.99
23	11-82	Minerva Banks	250/652	0.59
24	11-36.1	Ronnie H. Seagrave	361/236	0.26
25	11-81	Stephen D. Riggs, et al	362/441	2.50
26	10-70	Darwin & Shirley Martin	326/490	1.19
27	11-32.2	Bernard R. & Denise F. McDougal	636/587	0.54
28	11-32.4	Tony Ware	453/256	0.24
29	11-32.1	Melissa Stiles	380/290	0.34
30	11-33	Gary L. & Shirley A. Felton	337/136	0.39
31	11-79	Gary L. & Shirley A. Felton	337/136	4.00
32	11-34	Michael W. & Brenda S. Schmidt	582/483	31.74
33	11-32	Darwin & Shirley Martin	348/344	60.66
34	10-51	Charles E. & Laura Lynn Friend	334/839	8.03
35	10-50	Charles E. & Laura Lynn Friend	334/839	5.00
36	10-49	Charles E. & Laura Lynn Friend	334/836	71.52
37	11-1	Gertrude L. Pugh	314/140	70.00
38	11-2	Richard A. Fonner	415/796	6.00
39	11-3	Howard & Helen Young	198/126	59.90
40	10-69	Howard & Helen Young	198/126	5.10
41	10-46	Opal Carol Tallman	282/382	114.00
42	10-8	Helen M. Young	198/126	50.50
43	10-10	Ronald D. & Sandra Sue Martin	378/322	58.35
44	10-9	Brian E. & Barbara J. Courtney	344/626	52.00
45	10-7	Burt Rice	180/65	25.47
46	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
47	10-68	Larry M. Adams	343/792	50.25
48	10-6	The Rutter Family Revocable Trust	340/715	24.53
49	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
50	10-4	Stefan L. & Alberta B. Smolksi	356/467	56.08
51	6-36	Dennis & Clista A. Heintzman	297/640	417.06
52	7-32	Robert A. Mercer	399/676	61.13
53	6-30.1	Larry M. & Amy B. Adams	369/344	150.34

Leases	
A	Richard D. Pyles, et ux
B	James F. Doan, et ux
C	Helen E. Boggs
D	BRC Appalachian Minerals I, LLC
E	BRC Appalachian Minerals I, LLC
F	Joseph L. Sitko, et ux
G	BRC Appalachian Minerals I, LLC
H	BRC Appalachian Minerals I, LLC
I	BRC Appalachian Minerals I, LLC
J	BRC Appalachian Minerals I, LLC
K	BRC Appalachian Minerals I, LLC
L	David Leek
M	Will E. Morris Trust
N	Kathy Marie Smith
O	Donna Ables
P	David Leek
Q	Reita Jane Hall
R	Antero Resources Corp.
S	Melissa Dawn Pflant, et vir
T	Jerry Shoemaker
U	OPEN
V	OPEN
W	OPEN
X	Jerry R Brightwell & Gwendolyn C. Davies
Y	Haught Family Trust
Z	Karen J. Wolfe
AA	Darrell Sole
AB	Ridgetop Capital
AC	Richard A. Fonner
AD	Allen Smith
AE	Helen M. Karcinski, et al
AF	B&C Oil & Gas Company
AG	BRC Appalachian Minerals I, LLC
AH	B&C Oil and Gas Company
AI	Linda K. Loehr
AJ	Will E. Morris Heir Trust
AK	B&C Oil & Gas Company
AL	Rose Enterprises, LLC
AM	BRC Appalachian Minerals I, LLC
AN	NO LEASE
AO	Dustin A. Hendershot

FILE NO: 100-54-E-19  
 DRAWING NO: Seagrave Unit 1H As-Drilled  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY:  
 Submeter  
 PROVEN SOURCE OF ELEVATION:  
 WV DOT, Harrisville, WV



DATE: February 24 2021  
 OPERATOR'S WELL NO. Seagrave 1H  
 API WELL NO  
 47 - 095 - 02697  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls

DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Richard D. Pyles BRC Appalachian Minerals I, LLC (4); B&C Oil & Gas Company (3); Ridgetop Capital; Darrell Sole; Helen M. Karcinski, et al; Rose Enterprises, LLC ACREAGE: 168.5

ROYALTY OWNER: Richard D. Pyles, et ux; Joseph L. Sitko, et ux; Will E. Morris Trust; LEASE NO: ACREAGE: 71.283; 13.025; 70; 71.52; 50.5; 30; 30;

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: 6535' TVD 22,965' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
 Denver, CO 80202 Charleston, WV 25313

03/17/2023



**Antero Resources**  
**Well No. Seagrave 1H**  
**As-Drilled**  
**Antero Resources Corporation**



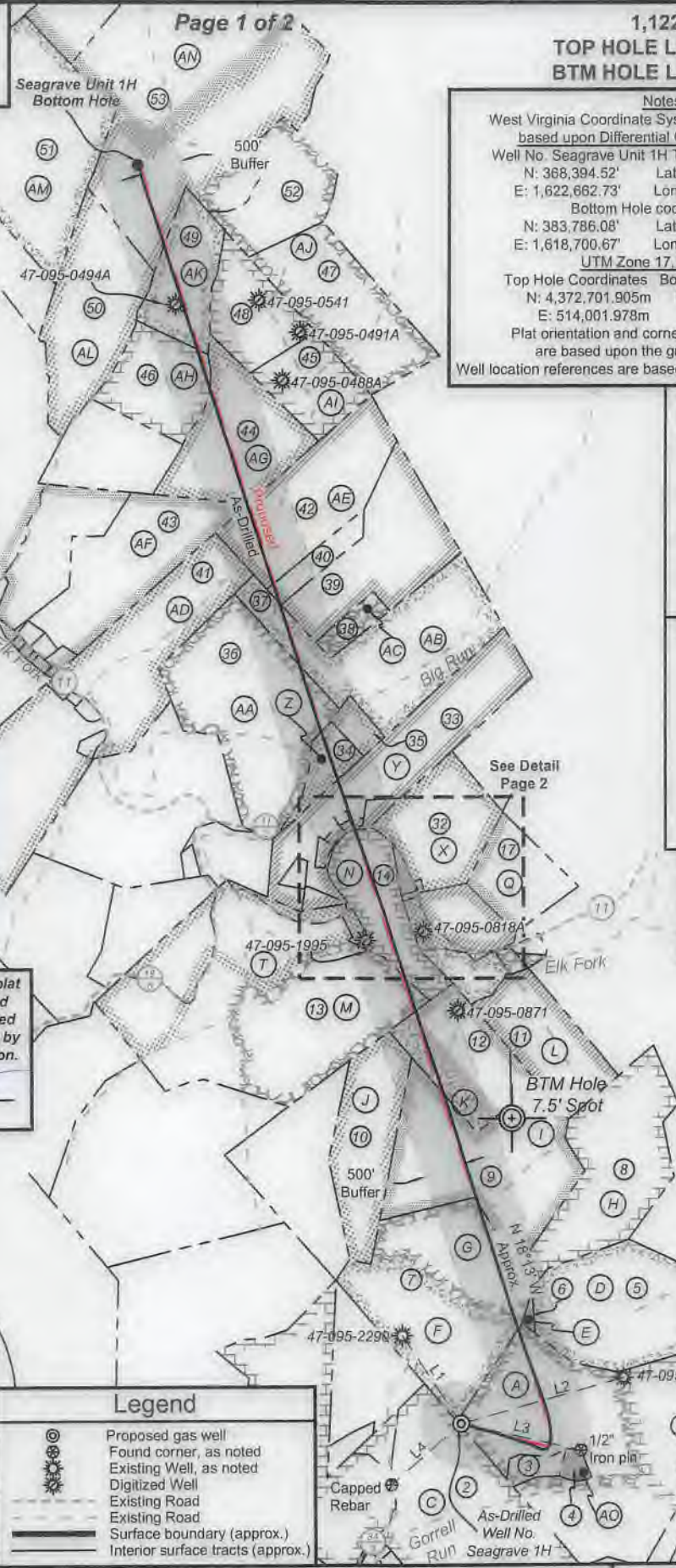
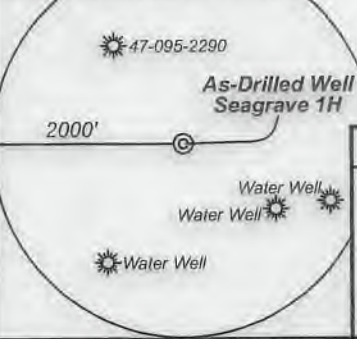
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  - Seagrave Unit 2H  
47-095-02698



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: 3 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.



**Legend**

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

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

DATE: February 24 2021  
 OPERATOR'S WELL NO. Seagrave 1H  
 API WELL NO  
 47 - 095 - 02697  
 STATE COUNTY PERMIT

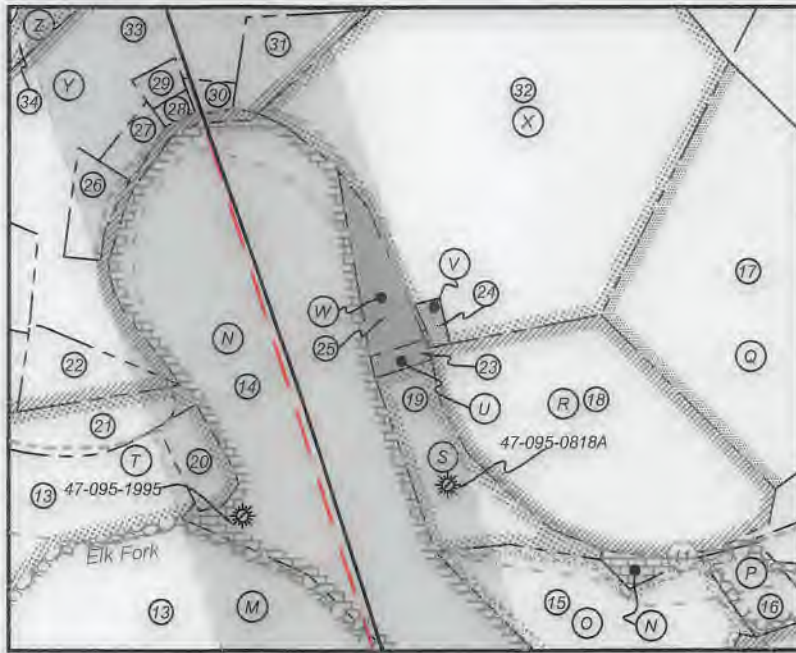
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 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
 Denver, CO 80202 Charleston, WV 25313

03/17/2023





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7	16-22	Joseph L. Jr. & Karen Sitko	296/13	81.70
8	16-21	Kayla Leek	531/56	67.73
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13	15-9	Antero Midstream, Inc.	586/544	132.19
14	11-36	David W. Fiber	574/847	21.16
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22	10-72	Darwin & Shirley Martin	322/28	1.99
23	11-82	Minerva Banks	250/652	0.59
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25	11-81	Stephen D. Riggs, et al	362/441	2.50
26	10-70	Darwin & Shirley Martin	326/490	1.19
27	11-32.2	Bernard R. & Denise F. McDougal	636/587	0.54
28	11-32.4	Tony Ware	453/256	0.24
29	11-32.1	Melissa Stiles	380/290	0.34
30	11-33	Gary L. & Shirley A. Felton	337/136	0.39
31	11-79	Gary L. & Shirley A. Felton	337/136	4.00
32	11-34	Michael W. & Brenda S. Schmidt	582/483	31.74
33	11-32	Darwin & Shirley Martin	348/344	60.66
34	10-51	Charles E. & Laura Lynn Friend	334/839	8.03
35	10-50	Charles E. & Laura Lynn Friend	334/839	5.00
36	10-49	Charles E. & Laura Lynn Friend	334/836	71.52
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39	11-3	Howard & Helen Young	198/126	59.90
40	10-69	Howard & Helen Young	198/126	5.10
41	10-46	Opal Carol Tallman	282/382	114.00
42	10-8	Helen M. Young	198/126	50.50
43	10-10	Ronald D. & Sandra Sue Martin	378/322	58.35
44	10-9	Brian E. & Barbara J. Courtney	344/626	52.00
45	10-7	Burl Rice	180/65	25.47
46	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
47	10-68	Larry M. Adams	343/792	50.25
48	10-6	The Rutter Family Revocable Trust	340/715	24.53
49	10-5	Brian E. & Barbara J. Courtney	344/626	30.00
50	10-4	Stefan L. & Alberta B. Smolski	356/467	56.08
51	6-36	Dennis & Clista A. Heintzman	297/640	417.06
52	7-32	Robert A. Mercer	399/676	61.13
53	6-30.1	Larry M. & Amy B. Adams	369/344	150.34

Leases	
A	Richard D. Pyles, et ux
B	James F. Doan, et ux
C	Helen E. Boggs
D	BRC Appalachian Minerals I, LLC
E	BRC Appalachian Minerals I, LLC
F	Joseph L. Sitko, et ux
G	BRC Appalachian Minerals I, LLC
H	BRC Appalachian Minerals I, LLC
I	BRC Appalachian Minerals I, LLC
J	BRC Appalachian Minerals I, LLC
K	BRC Appalachian Minerals I, LLC
L	David Leek
M	Will E. Morris Trust
N	Kathy Marie Smith
O	Donna Ables
P	David Leek
Q	Reita Jane Hall
R	Antero Resources Corp.
S	Melissa Dawn Pliant, et vir
T	Jerry Shoemaker
U	OPEN
V	OPEN
W	OPEN
X	Jerry R Brightwell & Gwendolyn C. Davies
Y	Haught Family Trust
Z	Karen J. Wolfe
AA	Darrell Sole
AB	Ridgetop Capital
AC	Richard A. Fonner
AD	Allen Smith
AE	Helen M. Karcinski, et al
AF	B&C Oil & Gas Company
AG	BRC Appalachian Minerals I, LLC
AH	B&C Oil and Gas Company
AI	Linda K. Loehr
AJ	Will E. Morris Heir Trust
AK	B&C Oil & Gas Company
AL	Rose Enterprises, LLC
AM	BRC Appalachian Minerals I, LLC
AN	NO LEASE
AO	Dustin A. Hendershot

FILE NO: 100-54-E-19  
 DRAWING NO: Seagrave 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: February 24 2021  
 OPERATOR'S WELL NO. Seagrave 1H  
 API WELL NO  
 47 - 095 - 02697  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1081' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Porter Falls

DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Richard D. Pyles ACREAGE: 168.5

ROYALTY OWNER: Richard D. Pyles, et ux; Joseph L. Sitko, et ux; Will E. Morris Trust; LEASE NO: ACREAGE: 71.52; 50.5; 30; 30;

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: 22,965' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
 Denver, CO 80202 Charleston, WV 25313

03/17/2023