

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

API 47 - 095 - 02728 County Tyler District Ellsworth
Quad Shirley Pad Name Blizzard Field/Pool Name -----
Farm name Roger D Blizzard & Ruth E Spencer Well Number Wade 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 4372107m Easting 512813m
Landing Point of Curve Northing 4371671.98m Easting 512797.08m
Bottom Hole Northing 4366695m Easting 514527m

Elevation (ft) 1004' 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 2/2/21 Date drilling commenced 5/10/2021 Date drilling ceased 7/7/2021
Date completion activities began 8/3/2021 Date completion activities ceased 10/27/2021
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 16' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1813' Void(s) encountered (Y/N) depths No
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

WR-35
Rev. 8/23/13

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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"	357'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2584'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	25801'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6747'		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	266 sx	15.6	1.18	56	0'	8 Hrs.
Surface	Class A	531 sx	15.6	1.20	113	0'	8 Hrs.
Coal							
Intermediate 1	Class A	903 sx	15.6	1.19	189	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 4121 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.26 (Tail)	925	-500' Into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 25846' MD, 6608' TVD (BHL), 6616' (Deepest Point Drilled) Loggers TD (ft) 25846' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5754'

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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PRODUCING FORMATION(S)	DEPTHS			
	6457' (TOP)	TVD	6802' (TOP)	MD
Marcellus				

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 9997 mcfpd Oil 271 bpd NGL --- bpd Water 372 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	NAME TVD	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 Shclumberger
 Address 5599 San Felipe St City Houston State TX Zip 77056

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

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 303-357-7223
 Signature [Signature] Title Completions Technician Date 3/31/22

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Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	08/03/2021	25728	25683	36	Marcellus
2	08/04/2021	25641.13524	25427.9467	36	Marcellus
3	08/04/2021	25390.0819	25176.8933	36	Marcellus
4	08/04/2021	25139.02857	24925.84	36	Marcellus
5	08/05/2021	24887.97524	24674.7867	36	Marcellus
6	08/05/2021	24636.9219	24423.7333	36	Marcellus
7	08/06/2021	24385.86857	24172.68	36	Marcellus
8	08/06/2021	24134.81524	23921.6267	36	Marcellus
9	08/07/2021	23883.7619	23670.5733	36	Marcellus
10	08/07/2021	23632.70857	23419.52	36	Marcellus
11	08/07/2021	23381.65524	23168.4667	36	Marcellus
12	08/08/2021	23130.6019	22917.4133	36	Marcellus
13	08/08/2021	22879.54857	22666.36	36	Marcellus
14	08/08/2021	22628.49524	22415.3067	36	Marcellus
15	08/09/2021	22377.4419	22164.2533	36	Marcellus
16	08/09/2021	22126.38857	21913.2	36	Marcellus
17	08/09/2021	21875.33524	21662.1467	36	Marcellus
18	08/10/2021	21624.2819	21411.0933	36	Marcellus
19	08/10/2021	21373.22857	21160.04	36	Marcellus
20	08/11/2021	21122.17524	20908.9867	36	Marcellus
21	08/11/2021	20871.1219	20657.9333	36	Marcellus
22	08/12/2021	20620.06857	20406.88	36	Marcellus
23	08/12/2021	20369.01524	20155.8267	36	Marcellus
24	08/12/2021	20117.9619	19904.7733	36	Marcellus
25	08/13/2021	19866.90857	19653.72	36	Marcellus
26	08/13/2021	19615.85524	19402.6667	36	Marcellus
27	08/13/2021	19364.8019	19151.6133	36	Marcellus
28	08/14/2021	19113.74857	18900.56	36	Marcellus
29	08/14/2021	18862.69524	18649.5067	36	Marcellus
30	08/14/2021	18611.6419	18398.4533	36	Marcellus
31	08/15/2021	18360.58857	18147.4	36	Marcellus
32	08/15/2021	18109.53524	17896.3467	36	Marcellus
33	08/16/2021	17858.4819	17645.2933	36	Marcellus
34	08/16/2021	17607.42857	17394.24	36	Marcellus
35	08/17/2021	17356.37524	17143.1867	36	Marcellus
36	08/17/2021	17105.3219	16892.1333	36	Marcellus
37	08/17/2021	16854.26857	16641.08	36	Marcellus
38	08/18/2021	16603.21524	16390.0267	36	Marcellus
39	08/18/2021	16352.1619	16138.9733	36	Marcellus
40	08/18/2021	16101.10857	15887.92	36	Marcellus
41	08/19/2021	15850.05524	15636.8667	36	Marcellus
42	08/19/2021	15599.0019	15385.8133	36	Marcellus
43	08/19/2021	15347.94857	15134.76	36	Marcellus
44	08/20/2021	15096.89524	14883.7067	36	Marcellus
45	08/20/2021	14845.8419	14632.6533	36	Marcellus
46	08/20/2021	14594.78857	14381.6	36	Marcellus
47	08/20/2021	14343.73524	14130.5467	36	Marcellus
48	08/21/2021	14092.6819	13879.4933	36	Marcellus
49	08/21/2021	13841.62857	13628.44	36	Marcellus
50	08/21/2021	13590.57524	13377.3867	36	Marcellus
51	08/22/2021	13339.5219	13126.3333	36	Marcellus
52	08/22/2021	13088.46857	12875.28	36	Marcellus
53	08/23/2021	12837.41524	12624.2267	36	Marcellus
54	08/23/2021	12586.3619	12373.1733	36	Marcellus
55	08/23/2021	12335.30857	12122.12	36	Marcellus
56	08/24/2021	12084.25524	11871.0667	36	Marcellus
57	08/24/2021	11833.2019	11620.0133	36	Marcellus
58	08/24/2021	11582.14857	11368.96	36	Marcellus
59	08/25/2021	11331.09524	11117.9067	36	Marcellus
60	08/25/2021	11080.0419	10866.8533	36	Marcellus
61	08/25/2021	10828.98857	10615.8	36	Marcellus
62	08/26/2021	10577.93524	10364.7467	36	Marcellus
63	08/26/2021	10326.8819	10113.6933	36	Marcellus
64	08/27/2021	10075.82857	9862.64	36	Marcellus
65	08/27/2021	9824.775238	9611.58667	36	Marcellus
66	08/27/2021	9573.721905	9360.53333	36	Marcellus
67	08/28/2021	9322.668571	9109.48	36	Marcellus
68	08/29/2021	9071.615238	8858.42667	36	Marcellus
69	08/29/2021	8820.561905	8607.37333	36	Marcellus
70	08/29/2021	8569.508571	8356.32	36	Marcellus
71	08/30/2021	8318.455238	8105.26667	36	Marcellus
72	08/30/2021	8067.401905	7854.21333	36	Marcellus
73	08/30/2021	7816.348571	7603.16	36	Marcellus
74	09/01/2021	7565.295238	7352.10667	36	Marcellus
75	09/01/2021	7314.241905	7101.05333	36	Marcellus
76	09/01/2021	7063.188571	6850	36	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	08/03/2021	73.56	10183	8172	3974	181700	235958	N/A
2	08/04/2021	89.21	10878	6082	4190	503693	387840	N/A
3	08/04/2021	80.92	10031	5929	4679	499307	396076	N/A
4	08/04/2021	89.25	10837	5474	4263	504427	387512	N/A
5	08/05/2021	79.57	9992	5838	3448	503765	383449	N/A
6	08/05/2021	89.15	10925	6096	4213	504711	385558	N/A
7	08/06/2021	89.2	10910	5940	3992	503765	373957	N/A
8	08/06/2021	89.83	10812	6355	3428	504095	376394	N/A
9	08/07/2021	91.95	10914	6721	3905	504743	375301	N/A
10	08/07/2021	92	10951	10008	3646	501100	372756	N/A
11	08/07/2021	91.03	10887	10330	3428	503922	361941	N/A
12	08/08/2021	91.86	10651	10109	3962	504886	362009	N/A
13	08/08/2021	90.53	10499	9855	3810	503920	373156	N/A
14	08/08/2021	91.02	10718	10996	3574	503950	365404	N/A
15	08/09/2021	96.23	10688	10267	3955	504300	361195	N/A
16	08/09/2021	84.49	9930	10981	3793	503700	360899	N/A
17	08/09/2021	95.93	10717	10010	4179	503768	362128	N/A
18	08/10/2021	98.19	10922	6344	3855	501477	365557	N/A
19	08/10/2021	94.45	10218	5153	4106	504361	360518	N/A
20	08/11/2021	97.75	10660	10425	4106	503972	364248	N/A
21	08/11/2021	95.44	10272	9379	3619	476812	366513	N/A
22	08/12/2021	88.94	10073	9572	3602	503922	359536	N/A
23	08/12/2021	93.91	10287	9747	3782	502580	360738	N/A
24	08/12/2021	94.05	9898	9750	3919	503655	357988	N/A
25	08/13/2021	96.82	10074	7826	3590	503723	349867	N/A
26	08/13/2021	95.65	10029	8818	3789	503111	359415	N/A
27	08/13/2021	94.91	10075	9101	3781	508179	359485	N/A
28	08/14/2021	97.52	10046	10719	3444	503850	360191	N/A
29	08/14/2021	98.28	9840	7835	3604	502201	355772	N/A
30	08/14/2021	93.52	9529	10559	3369	503881	352283	N/A
31	08/15/2021	98.91	10073	10452	3637	503390	350334	N/A
32	08/15/2021	98.28	9618	9450	3476	502784	354356	N/A
33	08/16/2021	95.46	9480	8929	3948	502846	356996	N/A
34	08/16/2021	97.49	9746	7841	3895	503898	357244	N/A
35	08/17/2021	96.39	9618	9307	3770	503706	351449	N/A
36	08/17/2021	97.74	9567	8896	3725	504043	359974	N/A
37	08/17/2021	97.23	9440	8539	3938.16	504515	353647	N/A
38	08/18/2021	96.4	9363	4658	4770	502548	356972	N/A
39	08/18/2021	91.49	8890	8115	3762	502584	354084	N/A
40	08/18/2021	96.76	9487	6820	3906	503649	349543	N/A
41	08/19/2021	96.89	9487	9023	3465	503856	349718	N/A
42	08/19/2021	97.53	9359	8822	3576	508097	353284	N/A
43	08/19/2021	97.44	9342	8700	3767	503548	350454	N/A
44	08/20/2021	97.28	9157	8540	3722	497652	350588	N/A
45	08/20/2021	97.06	9080	7716	3688	502798	351777	N/A
46	08/20/2021	98.45	8833	7556	3829	503252	355235	N/A
47	08/20/2021	96.81	8894	7516	3571	503790	351432	N/A
48	08/21/2021	98.06	9007	8752	3688	503457	349787	N/A
49	08/21/2021	97.43	9014	8802	3649	507269	355095	N/A
50	08/21/2021	96.1	8896	5872	3610.15	503709	371299	N/A
51	08/22/2021	99.32	9000	7860	3596	503760	348605	N/A
52	08/22/2021	98.1	8793	6112	3922	504220	351123	N/A
53	08/23/2021	96.42	8608	7170	3802	504080	353091	N/A
54	08/23/2021	94.62	8397	6209	3988	503600	346622	N/A
55	08/23/2021	98.47	8767	8176	4019	503665	351064	N/A
56	08/24/2021	98.75	8531	9487	3643	503675	348148	N/A
57	08/24/2021	98.9	9046	7375	4281	504378	350765	N/A
58	08/24/2021	95.95	8578	7007	3843.06	502680	352773	N/A
59	08/25/2021	98.96	8660	6708	3492	488400	351837	N/A
60	08/25/2021	99.62	8830	7946	3502.45	508510	401569	N/A
61	08/25/2021	98.71	8565	8457	3842	503988	401267	N/A
62	08/26/2021	99	8552	8255	3593	505185	395897	N/A
63	08/26/2021	99.7	8696	8672	3533	505185	395255	N/A
64	08/27/2021	99.27	8384	8591	4032.01	504786	397935	N/A
65	08/27/2021	99.53	8356	4768	3643	502590	402004	N/A
66	08/27/2021	99.64	8216	6493	3524	513270	400374	N/A
67	08/28/2021	98.13	8008	2296	3551.63	505772	395280	N/A
68	08/29/2021	98.54	8019	7438	3252	505192	392516	N/A
69	08/29/2021	97.84	8047	3910	3373	510750	400955	N/A
70	08/29/2021	96.59	7586	7455	3796	505512	473810	N/A
71	08/30/2021	99.6	7451	7105	3884	507586	403025	N/A
72	08/30/2021	99.38	7745	5768	3565	507720	395953	N/A
73	08/30/2021	97.6	7680	8105	4019	504780	395204	N/A
74	09/01/2021	98.35	7221	6612	3595	498188	396155	N/A
75	09/01/2021	98.86	7247	7666	3040.42	507698	392635	N/A
76	09/01/2021	100.09	7247	7560	3178	511188	395833	N/A
	AVG=	95	9,382	7,920	3,762	37,959,225	27,966,607	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Shaley Sandstone	74	214	74	214
Sandy Shale	214	364	214	364
Shaley Sandstone	364	514	364	514
Limestone, Tr Shale	514	544	514	544
Sandstone	544	664	544	664
Limestone, Tr Coal	664	694	664	694
Shaley Sandstone, Tr Coal	694	784	694	784
Shale, Tr Sandstone	784	1,204	784	1,204
Sandy Shale, Limestone, Tr Coal	1,204	1,354	1,204	1,354
Sandy Shale	1,354	1,504	1,354	1,504
Sandstone, Tr Shale, Tr Coal	1,504	1,624	1,504	1,624
Sandy Shale	1,624	1,834	1,624	1,834
Shaly Sandstone, Tr coal	1,834	1,860	1,834	1,881
Big Lime	1,886	2,618	1,881	2,654
Fifty Foot Sandstone	2,618	2,699	2,628	2,736
Gordon	2,699	3,003	2,710	3,047
Fifth Sandstone	3,003	3,059	3,021	3,103
Bayard	3,059	3,869	3,077	3,934
Speechley	3,869	4,174	3,908	4,243
Balltown	4,174	4,536	4,217	4,613
Bradford	4,536	4,950	4,587	5,036
Benson	4,950	5,170	5,010	5,261
Alexander	5,170	6,313	5,235	6,470
Sycamore	6,175	6,287	6,301	6,444
Middlesex	6,287	6,379	6,444	6,595
Burkett	6,379	6,404	6,595	6,646
Tully	6,404	6,457	6,646	6,802
Marcellus	6,457	NA	6,802	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.

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/3/2021
Job End Date:	9/1/2021
State:	West Virginia
County:	Tyler
API Number:	47-095-02728-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	WADE UNIT 2H
Latitude:	39.49841000
Longitude:	-80.85114400
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,616
Total Base Water Volume (gal):	29,552,426
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 Mixture	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.75062	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.07066	

OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
FLUID Enviro- Syn HCR-7000- WL	Fluid Energy Group	Acid Replacement					
				Listed Below			
HYDROCHLORI C ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			

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	13.10926
			Complex Amine Compound	Proprietary	60.00000	0.03237
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01619
			Hydrochloric acid	7647-01-0	30.00000	0.00872
			Proprietary	Proprietary	20.00000	0.00871
			Proprietary	Proprietary	10.00000	0.00435
			Guar gum	9000-30-0	100.00000	0.00419
			Glutaraldehyde	111-30-8	30.00000	0.00276
			Surfactant	Proprietary	5.00000	0.00270
			Sobitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00270
			Ethoxylated alcohols	Proprietary	5.00000	0.00054
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00054
			Organic chloride compound	Proprietary	1.00000	0.00054
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00046
			Ammonium persulfate	7727-54-0	100.00000	0.00010
			Ethanol	64-17-5	1.00000	0.00009
			Methanol	67-56-1	100.00000	0.00005
			Oxylated phenolic resin	Proprietary	30.00000	0.00003
			Modified thiourea polymer	Proprietary	30.00000	0.00002
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00002
			Nitrated acetate salt	Proprietary	0.01000	0.00001
			Sodium hydroxide	1310-73-2	0.01000	0.00001
			Organic salt #1	Proprietary	0.01000	0.00001
			Formaldehyde	50-00-0	0.01000	0.00001

			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Organic salt #2	Proprietary	0.01000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	
			Hexadecene	629-73-2	5.00000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			C.I. pigment Orange 5	3468-63-1	1.00000	0.00000	

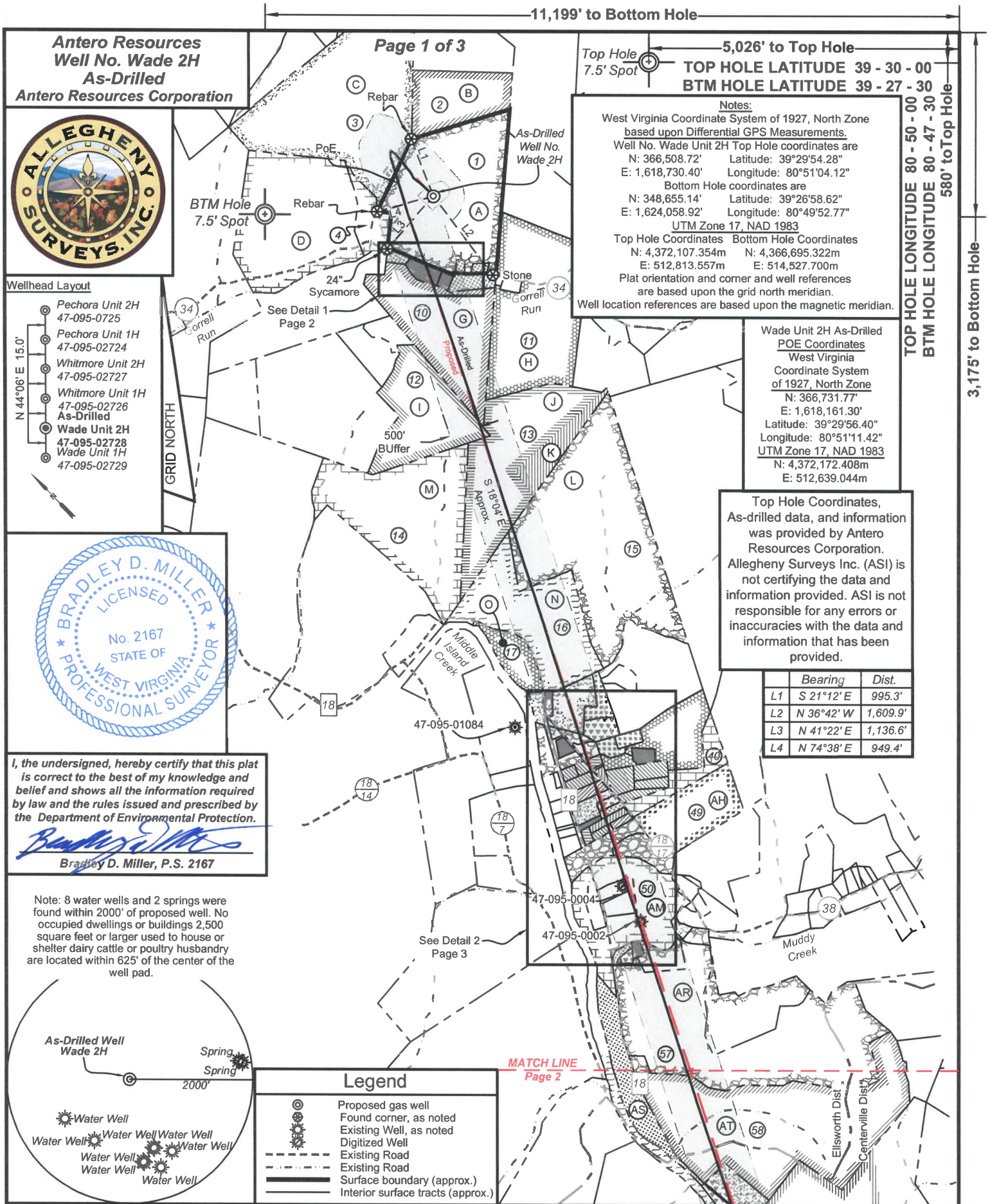
* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

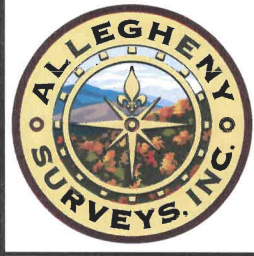
*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)



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



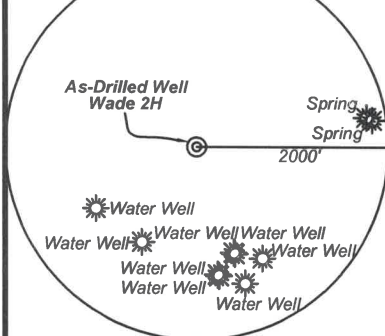
- Wellhead Layout**
- Pechora Unit 2H
47-095-0725
 - Pechora Unit 1H
47-095-02724
 - Whitmore Unit 2H
47-095-02727
 - Whitmore Unit 1H
47-095-02726
 - As-Drilled
Wade Unit 2H
47-095-02728
 - Wade Unit 1H
47-095-02729



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 and 2 springs 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.)

11,199' to Bottom Hole

5,026' to Top Hole

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

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Wade Unit 2H Top Hole coordinates are
 N: 366,508.72' Latitude: 39°29'54.28"
 E: 1,618,730.40' Longitude: 80°51'04.12"
 Bottom Hole coordinates are
 N: 348,655.14' Latitude: 39°26'58.62"
 E: 1,624,058.92' Longitude: 80°49'52.77"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,372,107.354m N: 4,366,695.322m
 E: 512,813.557m E: 514,527.700m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

Wade Unit 2H As-Drilled POE Coordinates
 West Virginia Coordinate System of 1927, North Zone
 N: 366,731.77'
 E: 1,618,161.30'
 Latitude: 39°29'56.40"
 Longitude: 80°51'11.42"
 UTM Zone 17, NAD 1983
 N: 4,372,172.408m
 E: 512,639.044m

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.

	Bearing	Dist.
L1	S 21°12' E	995.3'
L2	N 36°42' W	1,609.9'
L3	N 41°22' E	1,136.6'
L4	N 74°38' E	949.4'

FILE NO: 97-54-E-19
 DRAWING NO: Wade 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: March 7 20 22
 OPERATOR'S WELL NO. Wade 2H
 API WELL NO
 47 - 095 - 02728
 STATE COUNTY PERMIT

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

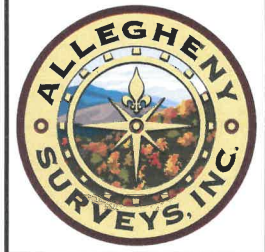
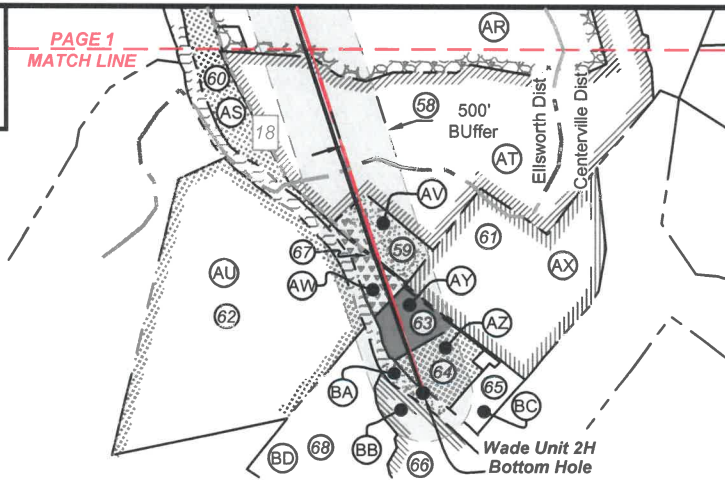
LOCATION: ELEVATION: As-Built 1,004' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Roger D. Blizzard & Ruth E. Spencer ACREAGE: 102.62
 ROYALTY OWNER: The Swan Living Trust; Elmer Earl Bowser, Jr.; Bradley J. Carpenter; Patrick Lewis Smith; David E. Bowyer; Heritage Resources - Marcellus Minerals, LLC; B. Fred Hill Jr.; Virginia Dianne Thompson; WV DNR; LEASE NO: _____ ACREAGE: _____
 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: 25,846' 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

TOP HOLE LONGITUDE 80 - 50 - 00
 BTM HOLE LONGITUDE 80 - 47 - 30
 580' to Top Hole

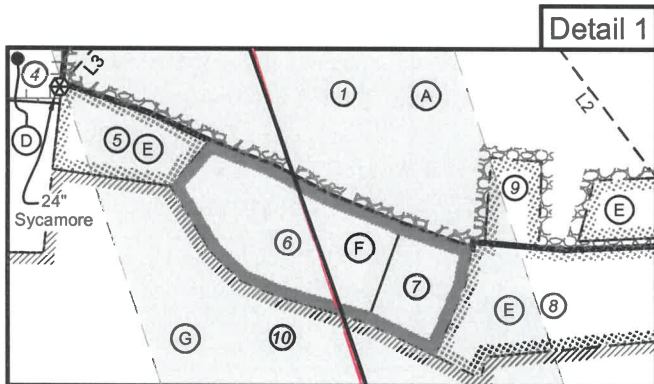
3,175' to Bottom Hole

PAGE 1
 MATCH LINE



Leases			
A	Heritage Resources - Marcellus Minerals, LLC	AA	Lloyd Carl Seckman
		AB	David E. Bowyer
B	Jerry R. Brown	AC	Brian R. Lemasters, et ux
C	B. Fred Hill Jr.	AD	Joshua D. Botkins
D	Clifford and Virginia Perkins Irrevocable Trust	AE	Randall L. Wise, et ux
		AF	April R. Weekley, et vir
E	Heritage Resources - Marcellus Minerals, LLC	AG	Brian M. Glover
		AH	Carolee J. Daniell
F	Virginia Dianne Thompson	AI	Rodney J. Davis
G	The Swan Living Trust	AJ	Donnie R. Griffey, et ux
H	Alfred Lonzo Eddy	AK	Robert O'Neil Dotson, et ux
I	Elmer Earl Bowser Jr.	AL	AMP Fund II, LP
J	Haessly Land & Timber, LLC	AM	Brian M. Weigle
K	City of Sistersville	AN	Stephanie D. McGowan
L	E. Lorna Howard Testamentary Trust	AO	Keith C. Smith, et ux
		AP	Mount Aris Cemetery
M	Kenneth R. & Jennifer L. Mason	AQ	Roger H. Smith
N	Bradley J. Carpenter	AR	Keith C. & Phyllis J. Smith
O	Ronald E. Thompson, et ux	AS	Triple Haught Trust
P	Alf Smith Cemetery	AT	Ronald L. Hoover, et ux
Q	Jeffrey D. Smith, et ux	AU	Larry Fletcher, et ux
R	Enoch Family Irrevocable Trust	AV	BRC Appalachian Minerals I, LLC
S	Patrick Lewis Smith	AW	Geraldine Owens Prunty
T	Danny L. & Terri E. Botkins	AX	William D. Morrison, et ux
U	Lee Roy Ferguson, et ux	AY	Jason S. Thompson, et ux
V	Rebecca Lynn Gebhardt	AZ	Kathy Ann Seago
W	Benjamin L. Botkins	BA	WV DNR
X	James R. Pinney	BB	BRC Appalachian Minerals I, LLC
Y	Phillip R. Edge	BC	OPEN
Z	Enoch Family Irrevocable Trust	BD	OPEN

ID	TM/Par	Owner	DB/PG	Acres
1	15-33	Roger D. Blizzard & Ruth E. Spencer	340/170	102.62
2	15-31	Roger D. Blizzard & Ruth E. Spencer	342/782	25.00
3	15-30	Thomas C. & Jeudeann L. Grinage	458/73	124.08
4	15-34.1	Randy & Pamela L. Lancaster	370/776	11.42
5	21-7	Gary O. & Anita K. Bennett	332 / 605	1.75
6	21-8	Roger D. & Darlene Blizzard	345/773	3.75
7	21-8.1	Charles M. & Amanda C. Spencer	397/36	1.32
8	21-10	Roger D. Blizzard & Ruth E. Spencer	340/170	5.00
9	21-9	Clayton M. & Ruth E. Spencer	201/541	0.71
10	21-14	Carl E. & Elsie M. Taylor	391/181	67.91
11	21-13	Alfred Lonzo Eddy	337/650	98.58
12	21-15	Stephanie & Joseph W. Havranek	254/153	45.48
13	21-53	Haessly Land & Timber, LLC	337/101A	89.88
14	21-52	Jennifer L. & Kenneth Mason	345/743	81.0
15	22-42	Sharon Christenson, et al	635/420	144.26
16	21-54	Sybill Gorby	WB 34/343	70.00
17	21-55	Ronald & Janet Thompson	400/552	12.50
18	21-57	ALF Smith Cemetery	107/393	3.00
19	22-42	Sharon Christenson, et al	635/420	144.26
20	22-43.1	Jeffery & Ricki L. Smith	317/507	4.17
21	22-49	Enoch Family Irrevocable Trust	440/433	4.14
22	21-60	Danny & Terri Botkins	342/556	0.86
23	21-58	Roger & Kendra Wyke	219/276	1.55
24	21-61	Danny & Terri Botkins	342/556	1.51
25	22-44	Darell & Doris McCormick	385/776	2.80
26	22-47.3	Lee Roy & Tracey Ferguson	355/656	2.39
27	21-62	Lewis Timmons Estate	332/1	1.8
28	28-5.1	Benjamin L. Botkins	410/440	0.79
29	22-47.4	Samantha Anderson	591/348	2.36
30	22-52	Phillip R. & Mary L. Edge	304/473	0.11
31	28-1.1	Lois J. Estep	258/641	0.97
32	28-1	Lois J. Estep & Edward E. Estep	359/613	1.11
33	28-2	Mary Ladene Lemasters	299/548	2.37
34	28-5	Phillip R. & Mary L. Edge	281/687	0.93
35	28-4	David A. Mays & Connie S. Gilbert	WB 76/405	11.11
36	28-3	Lloyd C. & Kathen G. Seckman	184/296	2.88
37	28-13	David E. Bowyer	481/234	3.97
38	28-4.1	Brian R. & Brooke A. Lemasters	617/403	1.10
39	28-4.3	Jerry T. & Lavonne L. Williams	311/89	1.91
40	28-7	Randall L. & Kathryn M. Wise	442/85	9.00
41	28-4.2	Joshua D. Botkins	451/569	1.18
42	28-4.6	Brian M. Glover	397/415	0.83
43	28-12	April Watkinson & Thomas Weekley	611/755	1.88
44	28-11	Rodney J. & Kenna K. Davis	281/348	1.00
45	28-11.1	Donnie R. & Melissa K. Griffey	323/700	1.00
46	28-14	Robert & Sandra Dotson	213/445	0.87
47	28-10	Carol Knapp Rev. Trust	435/461	9.20
48	28-10.1	Jean A. & Tom Gump	556/92	8.20
49	28-8	Robert L. & Carolee J. Daniell	WB 43/267	30.00
50	28-17	Kathy Ann Seago, et al	WB 41/119	12.11
51	28-16.1	Brian Weigle	353/776	2.36
52	28-16	Kathy Ann Seago, et al	WB 41/119	4.54
53	28-25	Ripley Alma Methodist Church	199/1	0.86
54	28-24.1	Church of Christ	332/580	0.94
55	28-24	Mt. Aris Union Church & Cemetery	246/47	0.97
56	28-23	Troy & Kelly Smith	OR 20/722	3.60
57	28-29	Keith C. Smith	WB 35/228	116.72
58	28-28	Ronald & Linda Hoover	184/383	136.22
59	5-1	Melvin E. & Sandra K. Ferguson	281/315	6.25
60	28-27	Kenneth & Jennifer Mason	353/389	72.00
61	5-4	Kenneth & Jennifer L. Mason	OR 75/585	52.78
62	2-1	Larry & Betty Fletcher	312/200	120.00
63	5-3	Jason & Melissa R. Thompson	397/39	7.52
64	5-4.1	Kathy Ann Seago, et al	WB 41/119	10.62
65	10-50	Steve Weigle, et al	OR 21/31	6.59
66	5-3	Kenneth Mason	332/724	105.00
67	5-2	James S. Taylor	403/297	6.00
68	5-12	Robert F. & Rita Scardina	203/260	36.90



FILE NO: 97-54-E-19
 DRAWING NO: Wade 2H As-Drilled
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY:
 Submeter
 PROVEN SOURCE OF ELEVATION:
 WVDOT, Harrisville, WV



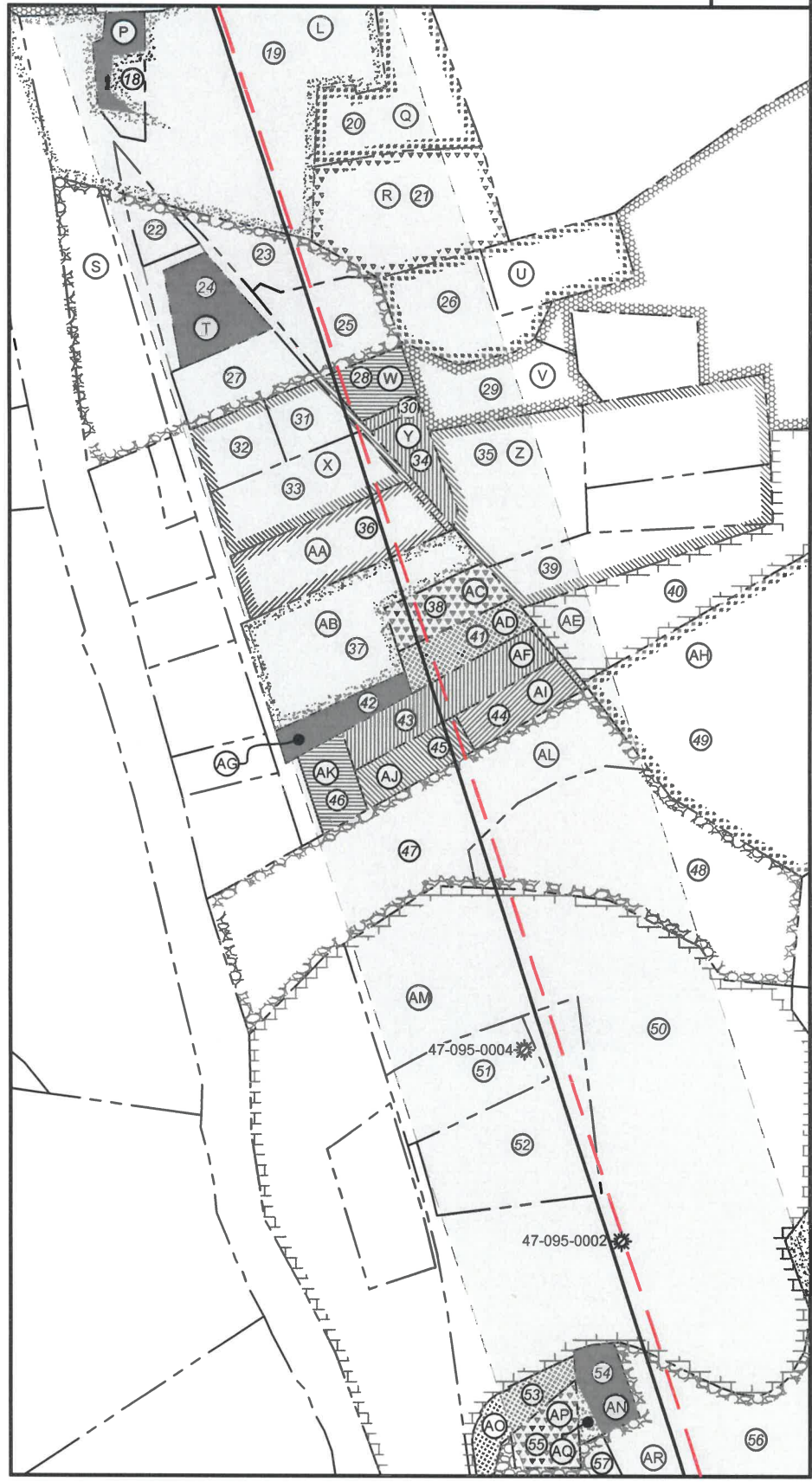
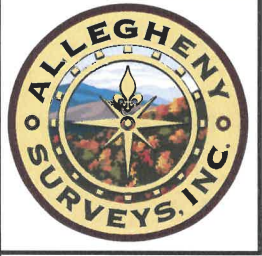
DATE: March 7 20 22
 OPERATOR'S WELL NO. Wade 2H
 API WELL NO
 47 - 095 - 02728
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built 1,004' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley
 DISTRICT: Ellsworth COUNTY: Tyler
 SURFACE OWNER: Roger D. Blizzard & Ruth E. Spencer ACREAGE: 102.62
 ROYALTY OWNER: The Swan Living Trust; Elmer Earl Bowser, Jr.; Bradley J. Carpenter; Patrick Lewis Smith; David E. Bowyer; Heritage Resources - Marcellus Minerals, LLC; B. Fred Hill Jr.; Virginia Dianne Thompson; WV DNR; LEASE NO: _____ ACREAGE: _____
 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: 6,608' TVD 25,846' 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

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

Detail 2



FILE NO: 97-54-E-19
DRAWING NO: Wade 2H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
WVDOT, Harrisville, WV



DATE: March 7 20 22
OPERATOR'S WELL NO. Wade 2H
API WELL NO
47 - 095 - 02728
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: As-Built 1,004' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Shirley
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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

6; 2.97; 102.62;
119.578; 5.065;
67.90625; 6.25; 7.52;
48.475; 75.25;
10.6175; 143.7325;
70; 10.74; 0.793;
0.996; 4.442; 2.88;
188.175; 136.22;
28.009; 17.401; 1.00;
1.103; 1.092; 3.97;
1.88; 1.00;