

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

API 47-095-02573 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Ferrell Pad Field/Pool Name -----
Farm name Antero Resources Midstream LLC Well Number Guild Unit 1H
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 4369201.825m Easting 507026.180m
Landing Point of Curve Northing 4369524.42m Easting 507466.19m
Bottom Hole Northing 4371480.777m Easting 506806.017m

Elevation (ft) 731.4' ^{757.5'} 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

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Date permit issued 1/25/2019 Date drilling commenced 6/9/2019 Date drilling ceased 10/4/2019
Date completion activities began 1/3/2020 Date completion activities ceased 2/1/2020
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 194', 243' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1224', 1347' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 770' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

CJP
10/19/2020

API 47-095 - 02573 Farm name Antero Resources Midstream LLC Well number Guild Unit 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"	110'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	396'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2668'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	13690'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6431'		4.7#, N-80		
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	204 sx	15.6	1.18	244	0'	8 Hrs.
Surface	Class A	350 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	925 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 2822 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)	2819	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13711' MD, 6093' TVD (BHL), 6095' (Deepest Point Drilled)

Loggers TD (ft) 13711' MD

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

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Kick off depth (ft) 5610'

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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

API 47-095 - 02573 Farm name Antero Resources Midstream LLC Well number Guild Unit 1H

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								RECEIVED Office of Oil & Gas SEP 24 2020 WY Dept. of Environment & Protection

Please insert additional pages as applicable.

API 47- 095 - 02573 Farm name Antero Resources Midstream LLC Well number Guild Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6052' (TOP) TVD	6520' (TOP) MD

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 10397 mcfpd Oil 256 bpd NGL --- bpd Water 1032 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 NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Frontier Drilling LLC
Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Nine Energy Services
Address 125 Museum Road City Washington State PA Zip 15301

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Griffith Telephone 303-357-7223
Signature [Signature] Title Permitting Agent Date 6/19/20

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

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API 47-095-02573 Farm Name Antero Midstream LLC Well Number Guild Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	1/12/2020	13591	13547	60	Marcellus
2	1/12/2020	13507.75714	13343.5429	60	Marcellus
3	1/12/2020	13308.3	13144.0857	60	Marcellus
4	1/13/2020	13108.84286	12944.6286	60	Marcellus
5	1/13/2020	12909.38571	12745.1714	60	Marcellus
6	1/13/2020	12709.92857	12545.7143	60	Marcellus
7	1/14/2020	12510.47143	12346.2571	60	Marcellus
8	1/14/2020	12311.01429	12146.8	60	Marcellus
9	1/14/2020	12111.55714	11947.3429	60	Marcellus
10	1/14/2020	11912.1	11747.8857	60	Marcellus
11	1/14/2020	11712.64286	11548.4286	60	Marcellus
12	1/15/2020	11513.18571	11348.9714	60	Marcellus
13	1/15/2020	11313.72857	11149.5143	60	Marcellus
14	1/15/2020	11114.27143	10950.0571	60	Marcellus
15	1/16/2020	10914.81429	10750.6	60	Marcellus
16	1/16/2020	10715.35714	10551.1429	60	Marcellus
17	1/16/2020	10515.9	10351.6857	60	Marcellus
18	1/16/2020	10316.44286	10152.2286	60	Marcellus
19	1/16/2020	10116.98571	9952.77143	60	Marcellus
20	1/17/2020	9917.528571	9753.31429	60	Marcellus
21	1/17/2020	9718.071429	9553.85714	60	Marcellus
22	1/17/2020	9518.614286	9354.4	60	Marcellus
23	1/17/2020	9319.157143	9154.94286	60	Marcellus
24	1/18/2020	9119.7	8955.48571	60	Marcellus
25	1/18/2020	8920.242857	8756.02857	60	Marcellus
26	1/18/2020	8720.785714	8556.57143	60	Marcellus
27	1/18/2020	8521.328571	8357.11429	60	Marcellus
28	1/18/2020	8321.871429	8157.65714	60	Marcellus
29	1/19/2020	8122.414286	7958.2	60	Marcellus
30	1/19/2020	7922.957143	7758.74286	60	Marcellus
31	1/19/2020	7723.5	7559.28571	60	Marcellus
32	1/19/2020	7524.042857	7359.82857	60	Marcellus
33	1/20/2020	7324.585714	7160.37143	60	Marcellus
34	1/20/2020	7125.128571	6960.91429	60	Marcellus
35	1/20/2020	6925.671429	6761.45714	60	Marcellus
36	1/20/2020	6726.214286	6562	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	1/12/2020	59.12899	7577.89	6516	3427	179130	5550.766	N/A
2	1/12/2020	82.46117	7526.783	5670	3646	397380	7151.676	N/A
3	1/12/2020	85.90881	7518.426	5254	3632	399520	7132.76	N/A
4	1/13/2020	83.26599	7359.687	5454	3454	399660	7091.62	N/A
5	1/13/2020	84.13996	7516.663	5853	3268	403580	7172.38	N/A
6	1/13/2020	83.16086	7533.316	5677	3304	404400	7029.67	N/A
7	1/14/2020	83.38385	7796.345	5146	3297	399140	7034.45	N/A
8	1/14/2020	83.01107	7791.631	5664	3214	406240	6999.87	N/A
9	1/14/2020	80.7001	7555.543	5916	3238	403740	7037.96	N/A
10	1/14/2020	82.95939	7517.334	5277	3398	404920	6922.02	N/A
11	1/14/2020	82.34209	7391.705	5255	3594	409900	7137.17	N/A
12	1/15/2020	82.32122	7210.96	5821	3246	407260	6923.46	N/A
13	1/15/2020	77.7683	7557.417	5966	3483	407300	10248.62	N/A
14	1/15/2020	82.09325	7306.913	5694	3685	414100	6986.12	N/A
15	1/16/2020	84.88571	7480.893	5202	3505	406340	6928.49	N/A
16	1/16/2020	82.37461	7464.543	5533	3643	401620	6902.96	N/A
17	1/16/2020	82.44884	7139.655	5809	3557	403740	6818.86	N/A
18	1/16/2020	84.52627	7092.856	4886	3601	405540	6901.28	N/A
19	1/16/2020	83.35571	6961.205	5716	3478	405740	6906.55	N/A
20	1/17/2020	82.45135	6956.992	5597	3456	401740	6833.76	N/A
21	1/17/2020	82.56874	6876.043	5943	3337	404280	6859.14	N/A
22	1/17/2020	84.49031	6902.13	5410	3533	401160	6834.53	N/A
23	1/17/2020	82.59817	7143.145	5585	3521	400040	6799.42	N/A
24	1/18/2020	80.15219	7144.907	5739	3331	399380	6795.76	N/A
25	1/18/2020	82.57298	6923.93	6073	3614	402600	6750.48	N/A
26	1/18/2020	85.38336	7097.955	5579	3412	404820	6802.45	N/A
27	1/18/2020	86.37533	6843.134	6005	3618	404180	6729.9	N/A
28	1/18/2020	84.74188	6788.827	5081	3652	403420	6724.07	N/A
29	1/19/2020	84.88569	6825.602	5705	3612	404060	6745.89	N/A
30	1/19/2020	83.14001	6649.412	5578	3485	399900	6736.69	N/A
31	1/19/2020	84.31644	6598.77	5617	3432	405300	6832.06	N/A
32	1/19/2020	84.14272	6580.209	5484	3550	410100	6818.42	N/A
33	1/20/2020	87.48257	6660.869	5647	3483	407580	7458.89	N/A
34	1/20/2020	83.9229	6937.133	6009	3518	402320	6803.38	N/A
35	1/20/2020	83.49012	6600.491	5583	3494	402820	6685.8	N/A
36	1/20/2020	84.24393	6618.357	6244	3246	405020	6799.74	N/A
	AVG=	82.7	7,151	5,644	3,471	14,317,970	250,887	TOTAL

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LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Silty Sandstone	75	175	75	175
Siltstone	175	275	175	275
Shaly Siltstone	275	335	275	335
Silty Shale	335	555	335	555
Silty Sandstone	555	575	555	575
Shale	575	955	575	955
Shaly Sandstone	955	1,035	955	1,035
Sandstone	1,035	1,215	1,035	1,215
Sandy Shale	1,215	1,255	1,215	1,255
Shaly Siltstone	1,255	1,315	1,255	1,315
Sandstone	1,315	1,435	1,315	1,435
Shaly Sandstone	1,435	1,515	1,435	1,515
Sandy Shale	1,515	1,540	1,515	N/A
Big Lime	1,555	2,115	1,557	2,162
Fifty Foot Sandstone	2,115	2,358	2,147	2,415
Gordon	2,358	2,673	2,400	2,739
Fifth Sandstone	2,673	2,759	2,724	2,828
Bayard	2,759	3,576	2,813	3,693
Speechley	3,576	3,728	3,678	3,854
Balltown	3,728	4,229	3,839	4,384
Bradford	4,229	4,524	4,369	4,694
Benson	4,524	4,907	4,679	5,096
Alexander	4,907	5,947	5,081	6,260
Sycamore	5,816	5,917	6,100	6,230
Middlesex	5,917	6,005	6,245	6,393
Burkett	6,005	6,027	6,408	6,445
Tully	6,027	6,052	6,460	6,520
Marcellus	6,052	NA	6,520	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:	1/12/2020
Job End Date:	1/20/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02573-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Guild Unit 1H
Latitude:	39.47229720
Longitude:	-80.91848330
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,116
Total Base Water Volume (gal):	10,914,659
Total Base Non Water Volume:	0

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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
Water	Supplied by Operator	Base Fluid	Water	7732-18-5	100.00000	86.12314	
Hydrochloric Acid	CWS	Clean Perforations					
				Listed Below			

SaniFrac 8123	CWS	Microbiocide								
					Listed Below					
Calbreak 5501	CWS	Breaker								
					Listed Below					
CI-9100G	CWS	Corrosion Inhibitor								
					Listed Below					
Sand (Proppant)	CWS	Propping Agent								
					Listed Below					
CalGel 4000	CWS	Gel Slurry								
					Listed Below					
Other Chemical (s)	Listed Above	See Trade Name (s) List								
					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		13.53935		
			Illite	12173-60-3		1.00000		0.13538		
			Hydrochloric acid	7647-01-0		37.00000		0.11923		
			Biotite	1302-27-8		0.10000		0.01354		
			Goethite	1310-14-1		0.10000		0.01354		
			Apatite	64476-38-6		0.10000		0.01354		
			Ilmenite	98072-94-7		0.10000		0.01354		
			Distillates (petroleum), hydrotreated middle	64742-46-7		60.00000		0.01235		

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	Guar gum	9000-30-0	60.00000	0.01235
	Glutaraldehyde	111-30-8	14.00000	0.00122
	Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00103
	Ammonium Persulfate	7727-54-0	100.00000	0.00044
	Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00031
	Ethanol	64-17-5	3.00000	0.00026
	Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3.00000	0.00026
	Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00026
	Vinylidene chloride-methyl acrylate copolymer	25038-72-6	20.00000	0.00009
	Ethylene Glycol	107-21-1	40.00000	0.00007
	Diethylene glycol, monomethyl ether	34590-94-8	20.00000	0.00003
	Tar bases, quinolone derivs, benzyl chloride- quaternized	72480-70-7	10.00000	0.00002
	Formic acid	64-18-6	10.00000	0.00002
	Cinnamaldehyde	104-55-2	10.00000	0.00002
	Ethoxylated Alcohols	68131-39-5	10.00000	0.00002
	Isopropyl alcohol	67-63-0	5.00000	0.00001

* 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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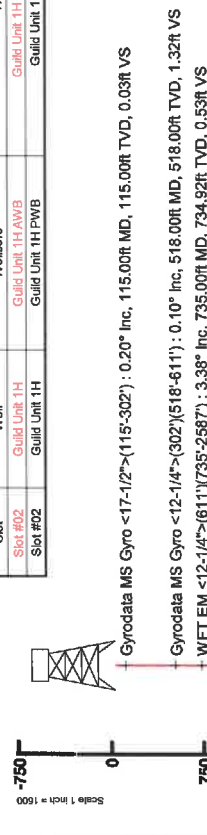
Location: Tyler County, WV
 Facility: Ferrrell North Pad

Slot: Slot #02
 Well: Guild Unit 1H
 Wellbore: Guild Unit 1H PWB

Photoreference wellpath is Guild Unit 1H PWP Rev-A.0
 True vertical depths are referenced to H&P 519 (RKB)
 Measured depths are referenced to H&P 519 (RKB)
 H&P 519 (RKB) to Mean Sea Level: 787 feet
 Mean Sea Level to Ground level (At Slot: Slot #02) : -757 feet
 Coordinates are in feet referenced to Slot

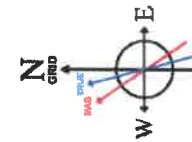
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Ferrrell North Pad	1685420.830	39°28'20.410"N	80°55'06.540"W
Slot	Local E (ft)	Local N (ft)	Local E (ft)
Slot #02	-14.16	0.01	14333909.142
H&P 519 (RKB) to Ground level (At Slot: Slot #02)			30ft
Mean Sea Level to Ground level (At Slot: Slot #02)			-757ft

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #02	Guild Unit 1H	Guild Unit 1H AWB	Guild Unit 1H AMP Proj: 13711
Slot #02	Guild Unit 1H	Guild Unit 1H PWB	Guild Unit 1H PWP Rev-A.0



Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)
Tile On	5855.00	25.390	5627.61	222.39	1442.02	9.43
Proj. To Bottom	5927.00	26.300	21.980	5691.55	252.90	5.50
End of 3D Arc	5985.99	31.895	30.710	5742.35	279.71	1488.12
POE	6519.98	70.436	955.001	6077.00	673.45	1521.18
Landing Pt.	6744.72	90.000	355.001	6115.00	693.02	1501.97
On Azimuth	7242.31	90.000	340.972	6115.00	1349.22	1404.89
BHL	13715.12	90.000	340.972	6115.00	7496.73	-715.19

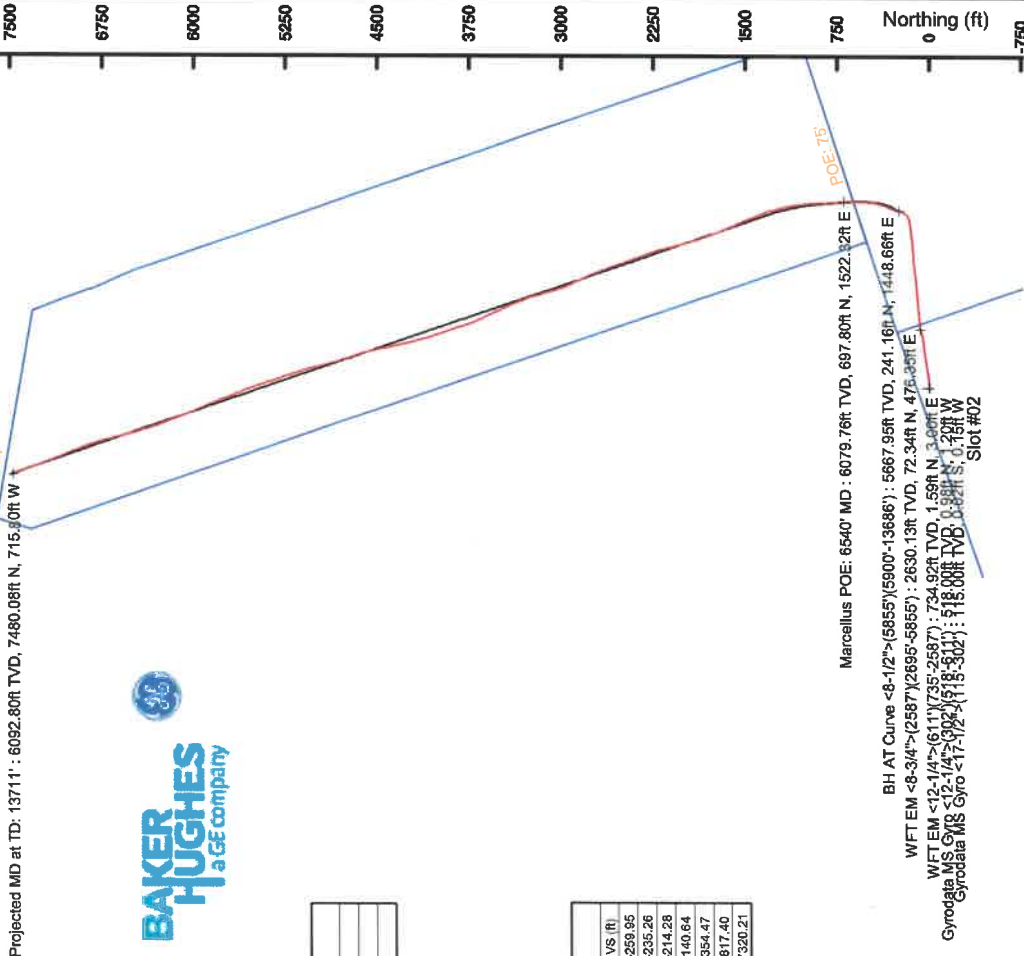
WFT EM <8-3/4">(2587)(2895-5855) : 13.24° Inc, 2695.00ft MD, 2630.13ft TVD, -86.94ft VS



User specified (HCOM) Dip: 86.51° East; 51761.01
 Magnetic North is 86.51 degrees East of True North (at 9/20/2019)
 Grid North is 0.05 degrees East of True North
 To correct azimuth from True to Grid subtract 0.05 degrees
 To correct azimuth from Magnetic to Grid subtract 7.66 degrees

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BH AT Curve <8-1/2">(5855)(5900-13686) : 27.25° Inc, 5900.00ft MD, 5667.95ft TVD, -244.38ft VS
 Marcellus POE: 6540° MD : 72.88° Inc, 6540.00ft MD, 6079.76ft TVD, 163.29ft VS



API: 47-095-02573-0000
 BHI Job #: 110049884A
 Rig: H&P 519
 Duration: 10/01/2019-10/02/2019

1,269' to Bottom Hole

672' to Top Hole
LATITUDE 39 - 30 - 00

Antero Resources Well No. Guild Unit 1H As-Drilled

Antero Resources Corporation

	Bearing	Dist.
L1	N 59°09' W	2,636.7'
L2	N 53°11' W	1,553.2'
L3	N 87°23' E	1,890.9'
L4	S 47°19' W	2,944.0'

Note: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.

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



Lease	
A	WV Division of Natural Resources
B	Thomas & Cynthia H. Hall
C	Larry Steven & Diane Helmick
D	Mary Frances Carpenter
E	BRC Appalachian Minerals I, LLC
F	Tyler County Commission

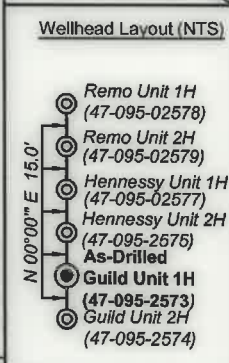
G	Joseph J. Morris
H	J.C. & Barbara Nuss
J	Larry Allen Anderson
K	Ernest D. & Karen S. Helmick
L	Robert L. & Pamela L. Shaffer
M	Robert L. & Pamela L. Shaffer

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Guild Unit 1H Top Hole coordinates are
N: 357,291.80' Latitude: 39°28'20.27"
E: 1,599,579.90' Longitude: 80°55'06.54"
Bottom Hole coordinates are
N: 364,782.25' Latitude: 39°29'34.20"
E: 1,598,982.29' Longitude: 80°55'15.67"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,369,201.825m N: 4,371,480.777m
E: 507,026.180m E: 506,806.017m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Legend

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

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.



ID	TM/Par	Owner	Bk/Pg	Acres
23	20/2	Anderson	282/506	68.05
22	14/40	Nuss	347/832	12.00
21	20/3	Leek	332/329	18.056
20	20/16	Rymer	219/287	25.813
19	20/12.2	Shaffer	354/76	0.37
18	20/12	Steen	264/127	39.76
17	20/11	Shaffer	399/15	0.45
16	20/14	Morris	205/425	0.15
15	20/13	Ty.Co. Comm.	333/63	0.15
14	20/12.1	Nuss	411/206	0.75
13	20/17	Rymer	219/287	0.877
12	20/40	White	352/566	9.37
11	20/42.1	Ashley	351/771	1.889
10	20/39	Rymer	219/287	36.40
9	20/37.6	Vancamp	443/643	19.67
8	20/37.4	Thacker, et al	395/843	4.437
7	20/37	Thacker, et al	443/643	8.892
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5	20/83.6	Hall	WB40/335	30.034
4	20/37.3	Wolf	384/321	4.095
3	20/83.7	Helmick	400/592	30.353
2	20/98	Hennessey	247/7	74.231
1	20/83.1	Helmick	230/446	2.76

FILE NO: 14-54-E-17
DRAWING NO: Guild 1H As-Drilled
SCALE: 1" = 1000'
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: May 8 2020
OPERATOR'S WELL NO. Guild Unit 1H
API WELL NO
47 - 095 - 02573
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 757.5 WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
DISTRICT: Ellsworth COUNTY: Tyler 61.71875; 25.8125;
SURFACE OWNER: Antero Midstream, LLC Larry R. Henthorn, et ux; Joseph W. Anderson; H3 LLC; Thomas & Cynthia H. Hall; J. Howard Hassig & Teresa A. Hassig; ACREAGE: 203.59 109.14; 99.413; 57.14; 22.36;
ROYALTY OWNER: The Swan Living Trust; Larry Steven & Diane Helmick; LEASE NO: ACREAGE: 166.09063;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 6,093' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 13,711' 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

1,269' to Bottom Hole

672' to Top Hole
LATITUDE 39 - 30 - 00

Antero Resources Well No. Guild Unit 1H As-Drilled

Antero Resources Corporation

	Bearing	Dist.
L1	N 59°09' W	2,636.7'
L2	N 53°11' W	1,553.2'
L3	N 87°23' E	1,890.9'
L4	S 47°19' W	2,944.0'

Note: 1 spring was 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. There were no gas wells found or documented within 3000' of the proposed well.

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Bradley D. Miller
Bradley D. Miller, P.S. 2167



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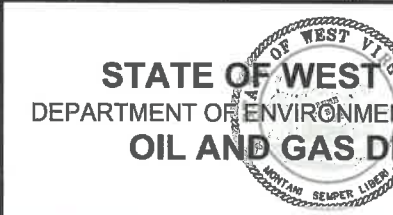
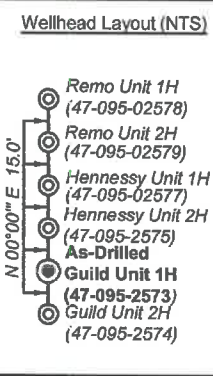
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