

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

API 47 - 103 - 03407 County Wetzel District Green  
Quad Porter Falls Pad Name Gadd Field/Pool Name -----  
Farm name William & Delores Gadd Well Number Charlotte 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 4377838m Easting 521000m  
Landing Point of Curve Northing 4377560.13m Easting 520420.35m  
Bottom Hole Northing 4374441m Easting 521514m

Elevation (ft) 1223' 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 6/14/2021 Date drilling commenced 7/14/2021 Date drilling ceased 10/16/2021  
Date completion activities began 12/10/2021 Date completion activities ceased 1/13/2022  
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 350' Open mine(s) (Y/N) depths No **08/12/2022**  
Salt water depth(s) ft 1917' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 971' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by: \_\_\_\_\_

API 47-103 - 03407 Farm name William & Delores Gadd Well number Charlotte 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"	445'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2682'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	18593'	New	20#, P-100	N/A	Y
Tubing		2-3/8"	7423'		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	252 sx	15.6	1.18	54	0'	8 Hrs.
Surface	Class A	570 sx	15.8	1.20	118	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1060 sx	15.8	1.17	218	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	792 sx (Lead) 3020 sx (Tail)	13.5 (Lead), 15.2(Tail)	1.4 (Lead), 1.32 (Tail)	627	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18644' MD, 7016' TVD (BHL), 7016' (Deepest Point Drilled) Loggers TD (ft) 18644' MD  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6515'

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 08/12/2022

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A



API 47- 103 - 03407 Farm name William & Delores Gadd Well number Charlotte 1H

PRODUCING FORMATION(S)	DEPTHS	
	' (TOP) TVD	' (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 10882 mcfpd Oil 492 bpd NGL --- bpd Water 615 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	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 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 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 Energy Services  
Address 3000 W. Sam Houston Pkwy City Houston State TX Zip 76114 08/12/2022

Please insert additional pages as applicable.

Completed by Brandi Hankins Telephone 304-842-9759  
Signature  Title Completions Technician Date 8/11/22

API 47-103-03407 Farm Name <u>William &amp; Delores Gadd</u> Well Number <u>Charlotte Unit 1H</u>					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	12/10/2021	18531	18490.4	36	Marcellus
2	12/11/2021	18448.82724	18232.5907	36	Marcellus
3	12/11/2021	18194.21794	17977.9814	36	Marcellus
4	12/12/2021	17939.60864	17723.3721	36	Marcellus
5	12/12/2021	17684.99934	17468.7628	36	Marcellus
6	12/12/2021	17430.39003	17214.1535	36	Marcellus
7	12/13/2021	17175.78073	16959.5442	36	Marcellus
8	12/13/2021	16921.17143	16704.9349	36	Marcellus
9	12/14/2021	16666.56213	16450.3256	36	Marcellus
10	12/14/2021	16411.95282	16195.7163	36	Marcellus
11	12/14/2021	16157.34352	15941.107	36	Marcellus
12	12/15/2021	15902.73422	15686.4977	36	Marcellus
13	12/15/2021	15648.12492	15431.8884	36	Marcellus
14	12/15/2021	15393.51561	15177.2791	36	Marcellus
15	12/16/2021	15138.90631	14922.6698	36	Marcellus
16	12/16/2021	14884.29701	14668.0605	36	Marcellus
17	12/17/2021	14629.68771	14413.4512	36	Marcellus
18	12/17/2021	14375.07841	14158.8419	36	Marcellus
19	12/18/2021	14120.4691	13904.2326	36	Marcellus
20	12/18/2021	13865.8598	13649.6233	36	Marcellus
21	12/18/2021	13611.2505	13395.014	36	Marcellus
22	12/19/2021	13356.6412	13140.4047	36	Marcellus
23	12/19/2021	13102.03189	12885.7953	36	Marcellus
24	12/19/2021	12847.42259	12631.186	36	Marcellus
25	12/20/2021	12592.81329	12376.5767	36	Marcellus
26	12/20/2021	12338.20399	12121.9674	36	Marcellus
27	12/20/2021	12083.59468	11867.3581	36	Marcellus
28	12/20/2021	11828.98538	11612.7488	36	Marcellus
29	12/21/2021	11574.37608	11358.1395	36	Marcellus
30	12/21/2021	11319.76678	11103.5302	36	Marcellus
31	12/21/2021	11065.15748	10848.9209	36	Marcellus
32	12/22/2021	10810.54817	10594.3116	36	Marcellus
33	12/22/2021	10555.93887	10339.7023	36	Marcellus
34	12/22/2021	10301.32957	10085.093	36	Marcellus
35	12/23/2021	10046.72027	9830.48372	36	Marcellus
36	12/23/2021	9792.110963	9575.87442	36	Marcellus
37	12/23/2021	9537.501661	9321.26512	36	Marcellus
38	12/24/2021	9282.892359	9066.65581	36	Marcellus
39	12/24/2021	9028.283056	8812.04651	36	Marcellus
40	12/25/2021	8773.673754	8557.43721	36	Marcellus
41	12/25/2021	8519.064452	8302.82791	36	Marcellus
42	12/26/2021	8264.45515	8048.2186	36	Marcellus
43	12/26/2021	8009.845847	7793.6093	36	Marcellus
44	12/26/2021	7755.236545	7539	36	Marcellus

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**API 47-103-03407 Farm Name William & Delores Gadd Well Number Charlotte Unit 1H**

**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	12/10/2021	54	8455	8784	3590	177320	258775	N/A
2	12/11/2021	85.22	8777	5518	4633	510790	385764	N/A
3	12/11/2021	82.53	8621	6164	4953	519390	388392	N/A
4	12/12/2021	90.05	8911	7332	4663	509730	381435	N/A
5	12/12/2021	87.71	8745	5600	4475	510000	387242	N/A
6	12/12/2021	90.92	8828	6836	5257	514350	389327	N/A
7	12/13/2021	86.18	8694.42	5546.03	4476.77	499280	365874	N/A
8	12/13/2021	89.97	8787	5910	5222	514610	368859	N/A
9	12/14/2021	92.79	8798	8952	4758	522630	376642	N/A
10	12/14/2021	92.64	8748	6870	4647	505230	387775	N/A
11	12/14/2021	91.17	8824	7123	4469	519690	373127	N/A
12	12/15/2021	94.74	8693	7588	4779	519460	370384	N/A
13	12/15/2021	95.82	8665	8483	4793	521550	376647	N/A
14	12/15/2021	92.19	8677	8391	4593	504610	363310	N/A
15	12/16/2021	93.19	8715	8313	4459	511560	367878	N/A
16	12/16/2021	91.84	8746	6890	4699	512340	369972	N/A
17	12/17/2021	89.96	8570	7992	4882	1001440	359032	N/A
18	12/17/2021	93.56	8780	7389	4523	499980	365389	N/A
19	12/18/2021	94.14	8796	8244	4644	520440	375982	N/A
20	12/18/2021	95.66	8746	6719	4454	506470	366715	N/A
21	12/18/2021	95.82	8689	8089	4202	504940	360996	N/A
22	12/19/2021	97.27	8733	8455	4414	504670	357329	N/A
23	12/19/2021	96.85	8595	7116	4389	521310	372149	N/A
24	12/19/2021	97.88	8769	8321	4071	502240	361711	N/A
25	12/20/2021	98.88	8728	7901	3965	503220	361295	N/A
26	12/20/2021	97.37	8702	7539	4151	501700	363194	N/A
27	12/20/2021	97.67	8721	7220	3976	506650	366915	N/A
28	12/20/2021	98.16	8751	8086	4084	499250	359951	N/A
29	12/21/2021	98.22	8719	7656	4289	500910	363089	N/A
30	12/21/2021	97.03	8750	6424	4277	505200	367171	N/A
31	12/21/2021	96.43	8734	6418	4263	520610	369165	N/A
32	12/22/2021	98.27	8574	6299	4340	501380	358657	N/A
33	12/22/2021	96.61	8667	6983	4310	518860	373337	N/A
34	12/22/2021	97.54	8665	6878	4392	518708	369507	N/A
35	12/23/2021	96.81	8714	6209	4258	515438	367989	N/A
36	12/23/2021	97.59	8690	6640	4405	502070	361750	N/A
37	12/23/2021	98.15	8483	5266	4471	518320	368558	N/A
38	12/24/2021	97.05	8683	7466	4320	500200	360085	N/A
39	12/24/2021	98.1	8648	6490	4455	503810	360276	N/A
40	12/25/2021	97.95	8557	5540	4659	502930	359699	N/A
41	12/25/2021	98.73	8567	6381	4306	499950	357641	N/A
42	12/26/2021	98.18	8293	5336	4508	501390	356293	N/A
43	12/26/2021	98.99	8373	6883	4407	520900	371181	N/A
44	12/26/2021	98.07	8009	5091	4147	506020	360603	N/A
	AVG=	94	8,668	7,030	4,455	22,581,546	16,107,062	TOTAL

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API 47-103-03407 Farm Name William & Delores Gadd Well Number Charlotte Unit 1H

**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	75	210	75	210
Silty Sandstone	210	240	210	240
Shaly sandstone	240	270	240	270
Silty Sandstone	270	420	270	420
Shaly sandstone	420	490	420	490
Silty Sandstone	490	600	490	600
Shale	600	810	600	810
Silty Sandstone	810	1,070	810	1,070
Shale w/coal interbeds	1,070	1,230	1,070	1,230
Sandy shale	1,230	1,320	1,230	1,320
Shale	1,320	1,410	1,320	1,410
Sandy shale	1,410	1,710	1,410	1,710
Shaly sandstone	1,710	2,136	1,710	2,229
Big Lime	2,166	2,586	2,199	2,683
Fifty Foot Sandstone	2,586	2,769	2,653	2,878
Gordon	2,769	3,016	2,848	3,143
Fifth Sandstone	3,016	3,058	3,113	3,187
Bayard	3,058	4,009	3,157	4,196
Speechley	4,009	4,136	4,166	4,330
Balltown	4,136	4,619	4,300	4,842
Bradford	4,619	5,158	4,812	5,425
Benson	5,158	5,582	5,395	5,883
Alexander	5,582	6,726	5,853	7,128
Sycamore	6,577	6,696	6,949	7,098
Middlesex	6,696	6,788	7,098	7,241
Burkett	6,788	6,820	7,241	7,300
Tully	6,820	6,890	7,300	7,487
Marcellus	6,890	NA	7,487	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.

08/12/2022

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/10/2021
Job End Date:	12/26/2021
State:	West Virginia
County:	Wetzel
API Number:	47-103-03407-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	CHARLOTTE UNIT 1H
Latitude:	39.54988900
Longitude:	-80.75574400
Datum:	WGS84
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,014
Total Base Water Volume (gal):	16,703,400
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	86.16332	Density = 8.50
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.05637	



HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
MC B-8614A	MultiChem	Biocide					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
Sand-Premium White-30/70	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
OPTIFLO-II DELAYED RELEASE BREAKER	Halliburton	Breaker					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			

FLUID Enviro-Syn HCR-7000-WL	Fluid Energy Group	Acid Replacement					
				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	13.70417	
			Complex Amine Compound	Proprietary	60.00000	0.02946	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01473	
			Proprietary	Proprietary	20.00000	0.01057	
			Hydrochloric acid	7647-01-0	30.00000	0.00557	
			Proprietary	Proprietary	10.00000	0.00529	
			Guar gum	9000-30-0	100.00000	0.00351	
			Glutaraldehyde	111-30-8	30.00000	0.00250	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00246	
			Surfactant	Proprietary	5.00000	0.00246	
			Ethoxylated alcohols	Proprietary	5.00000	0.00049	
			Organic chloride compound	Proprietary	1.00000	0.00049	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00049	
			Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	5.00000	0.00042	
			Ammonium persulfate	7727-54-0	100.00000	0.00010	
			Ethanol	64-17-5	1.00000	0.00008	
			Methanol	67-56-1	100.00000	0.00003	
			Oxylated phenolic resin	Proprietary	30.00000	0.00003	
			Modified thiourea polymer	Proprietary	30.00000	0.00001	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00001	

			Sodium glycolate	2836-32-0	0.01000	0.00000	
			Formaldehyde	50-00-0	0.01000	0.00000	
			Sodium hydroxide	1310-73-2	0.01000	0.00000	
			Organic salt #1	Proprietary	0.01000	0.00000	
			Organic salt #2	Proprietary	0.01000	0.00000	
			Nitrated acetate salt	Proprietary	0.01000	0.00000	
			Acrylamide	79-06-1	0.01000	0.00000	
			Propargyl alcohol	107-19-7	5.00000	0.00000	
			Hexadecene	629-73-2	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)

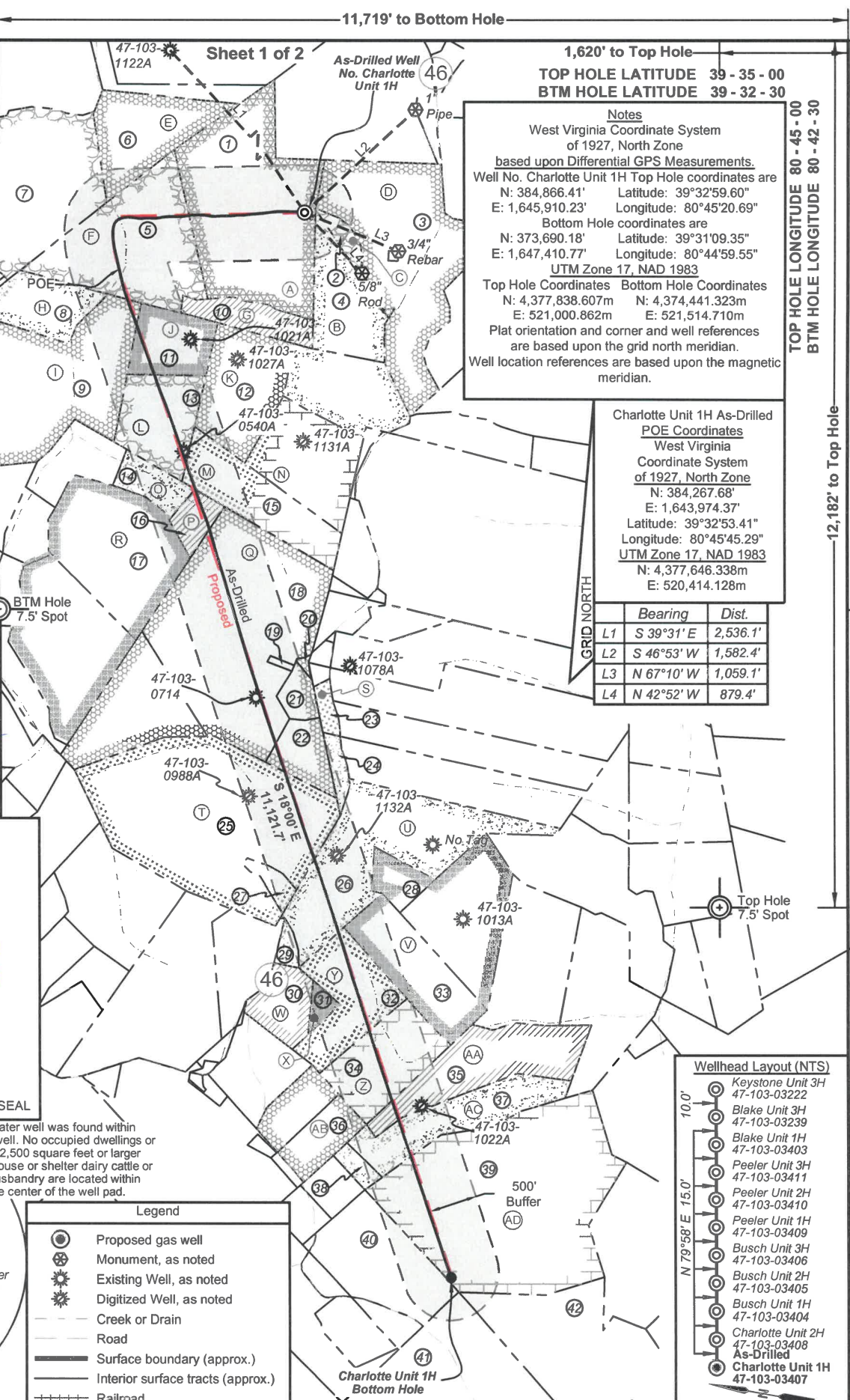
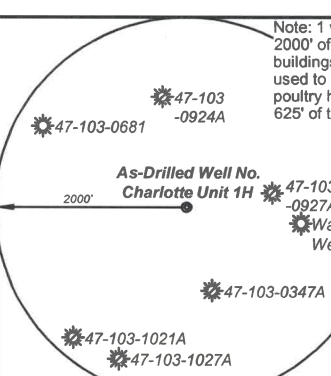
**Antero Resources**  
**Well No. Charlotte 1H**  
**As-Drilled**  
 Antero Resources Corporation



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



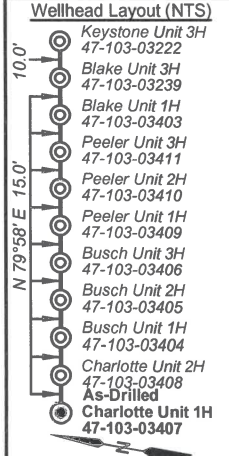
**Notes**  
 West Virginia Coordinate System of 1927, North Zone  
 based upon Differential GPS Measurements.  
 Well No. Charlotte Unit 1H Top Hole coordinates are  
 N: 384,866.41' Latitude: 39°32'59.60"  
 E: 1,645,910.23' Longitude: 80°45'20.69"  
 Bottom Hole coordinates are  
 N: 373,690.18' Latitude: 39°31'09.35"  
 E: 1,647,410.77' Longitude: 80°44'59.55"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,377,838.607m N: 4,374,441.323m  
 E: 521,000.862m E: 521,514.710m  
 Plat orientation and corner and well references are based upon the grid north meridian.  
 Well location references are based upon the magnetic meridian.

Charlotte Unit 1H As-Drilled POE Coordinates  
 West Virginia Coordinate System of 1927, North Zone  
 N: 384,267.68'  
 E: 1,643,974.37'  
 Latitude: 39°32'53.41"  
 Longitude: 80°45'45.29"  
 UTM Zone 17, NAD 1983  
 N: 4,377,646.338m  
 E: 520,414.128m

	Bearing	Dist.
L1	S 39°31' E	2,536.1'
L2	S 46°53' W	1,582.4'
L3	N 67°10' W	1,059.1'
L4	N 42°52' W	879.4'

**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.)
- Railroad



FILE NO: 323-34-G-17  
 DRAWING NO: Charlotte 1H As-Drilled  
 SCALE: 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY: Submeter  
 PROVEN SOURCE OF ELEVATION: CORS, Monroe County, OH

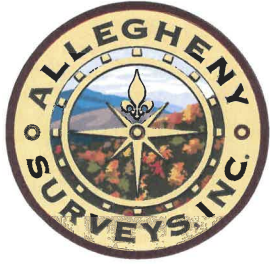
**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**OIL AND GAS DIVISION**

DATE: March 16 2022  
 OPERATOR'S WELL NO. Charlotte Unit 1H  
 API WELL NO  
 47 - 103 - 03407  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 1,223.8' WATERSHED: Fishing Creek QUADRANGLE: Porter Falls 4.50;  
 DISTRICT: Green William L. & Christenson Family Trust; Harry I. Elson; COUNTY: Wetzel 08/12/2022  
 SURFACE OWNER: Delores J. Gadd Howard M. Henderson; Suzann Marie Stoehr, et al; David A. Dickey; COUNTY: Wetzel 08/12/2022  
 ROYALTY OWNER: Shiben Estates, Inc. (2); Gladys E. Conley Trust; Richard Lee Tennant, et ux; H. Dorn Higginbotham; Sally Lou Anderson; Jim R. McHenry; ACREAGE: 60.5 4.75; 105; 76.675;  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION 45.72; 20; 18.5; 22.5;  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled LEASE NO: ACREAGE: 25.2875; 80;  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,644' MD 7,016' TVD

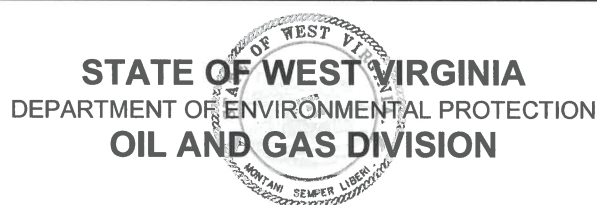
WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System  
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road  
 Denver, CO 80202 Charleston, WV 25313



Leases	
A	Shiben Estates, Inc.
B	Ellen W. & Mark L. VanDyne
C	John W. Bertram
D	BRC Appalachian Minerals I, LLC
E	Mildred Caseman
F	Gladys E. Conley Trust
G	Sandra Rose Conley
H	Chesapeake Appalachia, LLC
I	Harry I. Elson
J	Richard Lee Tennant, et ux
K	Michael Tennant
L	Shiben Estates, Inc.
M	Susie T. Grimm
N	Thomas M. Stackhouse
O	Kevin S. Goff, et ux
P	David A. Dickey
Q	Chesapeake Appalachia, LLC
R	Joyce E. Henry
S	Ronald Hall
T	Chesapeake Appalachia, LLC
U	H. Dorn Higginbotham
V	Perry Dale Thorne, Jr., et ux
W	Betty S. Burns
X	Black Gold Group, LTD
Y	Sally Lou Anderson
Z	Jim R. McHenry
AA	Christenson Family Trust
AB	Boyd Muzzy, et ux
AC	Howard M. Henderson
AD	Suzann Marie Stoehr, et al

ID	TM/Par	Owner	Bk/Pg	Acres
1	16-22	William L. & Delores J. Gadd	348/169	60.50
2	16-31	William L. & Delores J. Gadd	348/169	2.65
3	16-23	Kenneth E. Butler	331/110	50.97
4	16-30	William L. & Delores J. Gadd	348/169	14.00
5	16-21	Mildred E. Caseman	WB45/396	40.00
6	16-21.2	Mildred E. Caseman	WB45/396	20.06
7	16-20	Bonita Andrich, et al	WB70/243	79.03
8	16-21.1	Mildred E. Caseman	WB45/396	15.00
9	16-37	Garrett S. Estate	316/248	61.00
10	16-47	William M. Greenwalt & Lee A. Niezgoda	387/1	12.00
11	16-38	Silas Tennant	137/85	15.50
12	16-39	Silas & William A. Tennant	WB27/97	23.30
13	16-45	James E. Newman	400/234	18.50
14	16-55	James E. Newman	400/234	4.00
15	16-56	James L. & Martha Jo Stewart	288/330	23.33
16	16-59.2	James L. & Martha Jo Stewart	288/330	4.50
17	16-59	Mark & Patti Goldstein	305/586	34.97
18	16-61	Michael L. & Tina M. Adams	444/427	67.96
19	16-61.1	Church of Christ	218/337	0.42
20	16-61.2	Harry K. Eastham	299/450	0.38
21	19-61.3	Michael L. & Tina M. Adams	346/443	3.83
22	19-61.4	Michael L. & Tina M. Adams	377/309	7.91
23	19-8.4	Ronald Hall	385/65	2.17
24	19-17.2	Timothy J. Horner	444/381	2.76
25	19-16	Richard R. & Mary J. Scyoc	443/336	73.96
26	19-17	John R. & Mary Ann Horner	416/853	47.55
27	19-16.1	Richard R. & Mary J. Scyoc	445/20	2.74
28	19-25	Perry Dale, Jr. & Martha Jo Thorne	348/298	5.34
29	19-17.1	Zachary M. & Jessica N. Pittman	421/145	1.83
30	19-33	John A. Earnest	401/357	9.30
31	19-34	Sharon M. & Ronald L. Christenson	439/373	2.00
32	19-35	Sharon M. & Ronald L. Christenson	439/373	20.00
33	19-36	Perry Dale, Jr. & Martha Jo Thorne	348/298	20.00
34	19-41	Sharon M. & Ronald L. Christenson	439/373	18.50
35	19-42	Sharon M. & Ronald L. Christenson	363/101	22.50
36	19-44	Boyd & Karen Muzzy	330/264	8.50
37	19-46	Sharon M. & Ronald L. Christenson	439/373	25.28
38	19-45	Sharon M. & Ronald L. Christenson	439/373	2.20
39	19-47	Suzann M. Stoehr, et al	WB48/422	80.00
40	18-1.1	Montana Sue & Lakota James Morris	WB51/364	25.73
41	18-1	William H. & Joclare Eastham	378/603	97.06
42	19-50	Ronald H. Eastham, et al	424/70	40.00

FILE NO: 323-34-G-17  
 DRAWING NO: Charlotte 1H As-Drilled  
 SCALE: 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY:  
Submeter  
 PROVEN SOURCE OF ELEVATION:  
CORS, Monroe County, OH



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