

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

API 47-095-02566 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Ferrell Pad Field/Pool Name ----
Farm name Antero Resources Midstream LLC Well Number Daniels 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 4369180.126m Easting 507137.181m
Landing Point of Curve Northing 4366830.14m Easting 508117.47m
Bottom Hole Northing 4366840.330m Easting 508134.182m

Elevation (ft) 731.4' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Air - Foam & 4% KCL
Mud - Polymer

Date permit issued 1/25/2019 Date drilling commenced 7/5/2019 Date drilling ceased 11/11/2019
Date completion activities began 2/10/2020 Date completion activities ceased 3/20/2020
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

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

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Reviewed by:
GJB
10/15/2020

API 47- 095 - 02566 Farm name Antero Resources Midstream LLC Well number Daniels 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"	399'	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"	14913'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6719'		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	915 sx	15.6	1.18	1047	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	798 sx (Lead) 3040 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) 14933' MD, 6149' TVD (BHL), 6150' (Deepest Point Drilled) Loggers TD (ft) 14933' MD

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

Plug back procedure N/A

Kick off depth (ft) 5308'

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 _____

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47-095 - 02566 Farm name Antero Resources Midstream LLC Well number Daniels 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								

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6016' (TOP)	TVD	6345' (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 2623 mcfpd Oil 112 bpd NGL --- bpd Water 312 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 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

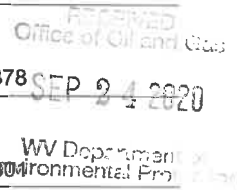
Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26304

Please insert additional pages as applicable.

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

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



API 47-095-02566 Farm Name Antero Midstream LLC Well Number Daniels Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/10/2020	14814	14770	60	Marcellus
2	2/10/2020	14729.97967	14561.878	60	Marcellus
3	2/11/2020	14525.85772	14357.7561	60	Marcellus
4	2/11/2020	14321.73577	14153.6341	60	Marcellus
5	2/11/2020	14117.61382	13949.5122	60	Marcellus
6	2/12/2020	13913.49187	13745.3902	60	Marcellus
7	2/12/2020	13709.36992	13541.2683	60	Marcellus
8	2/12/2020	13505.24797	13337.1463	60	Marcellus
9	2/12/2020	13301.12602	13133.0244	60	Marcellus
10	2/12/2020	13097.00407	12928.9024	60	Marcellus
11	2/13/2020	12892.88211	12724.7805	60	Marcellus
12	2/13/2020	12688.76016	12520.6585	60	Marcellus
13	2/14/2020	12484.63821	12316.5366	60	Marcellus
14	2/14/2020	12280.51626	12112.4146	60	Marcellus
15	2/14/2020	12076.39431	11908.2927	60	Marcellus
16	2/15/2020	11872.27236	11704.1707	60	Marcellus
17	2/15/2020	11668.15041	11500.0488	60	Marcellus
18	2/15/2020	11464.02846	11295.9268	60	Marcellus
19	2/15/2020	11259.9065	11091.8049	60	Marcellus
20	2/15/2020	11055.78455	10887.6829	60	Marcellus
21	2/16/2020	10851.6626	10683.561	60	Marcellus
22	2/16/2020	10647.54065	10479.439	60	Marcellus
23	2/16/2020	10443.4187	10275.3171	60	Marcellus
24	2/16/2020	10239.29675	10071.1951	60	Marcellus
25	2/16/2020	10035.1748	9867.07317	60	Marcellus
26	2/17/2020	9831.052846	9662.95122	60	Marcellus
27	2/17/2020	9626.930894	9458.82927	60	Marcellus
28	2/17/2020	9422.808943	9254.70732	60	Marcellus
29	2/17/2020	9218.686992	9050.58537	60	Marcellus
30	2/17/2020	9014.565041	8846.46341	60	Marcellus
31	2/18/2020	8810.443089	8642.34146	60	Marcellus
32	2/18/2020	8606.321138	8438.21951	60	Marcellus
33	2/18/2020	8402.199187	8234.09756	60	Marcellus
34	2/18/2020	8198.077236	8029.97561	60	Marcellus
35	2/19/2020	7993.955285	7825.85366	60	Marcellus
36	2/19/2020	7789.833333	7621.73171	60	Marcellus
37	2/19/2020	7585.711382	7417.60976	60	Marcellus
38	2/20/2020	7381.589431	7213.4878	60	Marcellus
39	2/20/2020	7177.46748	7009.36585	60	Marcellus
40	2/20/2020	6973.345528	6805.2439	60	Marcellus
41	2/20/2020	6769.223577	6601.12195	60	Marcellus
42	2/20/2020	6565.101626	6397	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	2/10/2020	79.1	8126	6501	3782	182960	5493.306	N/A
2	2/10/2020	87.5	8072	6103	4345	406000	7182.216	N/A
3	2/11/2020	87.5	8072	4640	4180	397860	7099.09	N/A
4	2/11/2020	86.5	8313	5679	3683	397860	7070.33	N/A
5	2/11/2020	85.9	8248	5604	3652	408300	7118.96	N/A
6	2/12/2020	84.8	8101	5898	3667	402600	7088.55	N/A
7	2/12/2020	83.1	8134	5594	3535	393100	6984.68	N/A
8	2/12/2020	87.1	8232	5353	3554	404180	7073.52	N/A
9	2/12/2020	85.1	7873	5817	3663	403100	7001.29	N/A
10	2/12/2020	84.8	8173	5927	3882	405880	7124.82	N/A
11	2/13/2020	84.7	8025	5754	3762	403300	8620.201	N/A
12	2/13/2020	84.9	8064	5904	3888	410680	7092.57	N/A
13	2/14/2020	79.1	7887	5729	3738	404400	7671.9	N/A
14	2/14/2020	85.3	7945	5729	3878	406440	7103.7	N/A
15	2/14/2020	86.3	7832	5544	3712	413200	7025.82	N/A
16	2/15/2020	85.3	8134	5146	4165	403480	6997.37	N/A
17	2/15/2020	84.6	8118	5026	3701	410440	6988.73	N/A
18	2/15/2020	84.2	7758	5151	3646	405080	7013.97	N/A
19	2/15/2020	83.6	7774	5165	3667	402240	7046.73	N/A
20	2/15/2020	83.5	8391	5671	3659	410540	7017.92	N/A
21	2/16/2020	87.5	7953	5446	3828	403960	6942.17	N/A
22	2/16/2020	84.4	7610	5453	3793	413260	6982.74	N/A
23	2/16/2020	84.7	7416	5221	3801	406960	6941.28	N/A
24	2/16/2020	86.5	7820	5501	3641	410600	6973.93	N/A
25	2/16/2020	86.3	7712	5260	3870	408240	6958.98	N/A
26	2/17/2020	86.6	7690	5282	3594	405040	6974.23	N/A
27	2/17/2020	84.8	7321	5250	3756	408600	6862.98	N/A
28	2/17/2020	85.2	7121	5427	3646	405720	6815.99	N/A
29	2/17/2020	83.7	7314	5587	3695	413120	6978.17	N/A
30	2/17/2020	85.7	7363	5570	3635	401660	6860.17	N/A
31	2/18/2020	85.5	7161	5225	3801	403660	6836.68	N/A
32	2/18/2020	85.9	7075	5546	3771	402440	6805.79	N/A
33	2/18/2020	86.1	7089	5520	3720	402280	7441.75	N/A
34	2/18/2020	85.8	7095	5386	3809	413340	6854.2	N/A
35	2/19/2020	86.7	7290	5276	3892	403800	6848.01	N/A
36	2/19/2020	86	6903	5611	4287	402660	6813.46	N/A
37	2/19/2020	86	6877	5269	3996	405660	6777.7	N/A
38	2/20/2020	84.9	6750	5267	4061	406900	6935.27	N/A
39	2/20/2020	85.9	6980	5173	4091	396100	6681.79	N/A
40	2/20/2020	85.1	6838	5492	3939	403280	6798.99	N/A
41	2/20/2020	85	6653	5607	3879	403620	6788.08	N/A
42	2/20/2020	84.7	6251	5238	3897	403160	6877.91	N/A
	AVG=	85.2	7,642	5,495	3,811	16,392,540	286,688	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
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	1,517	1,515	N/A
Big Lime	1,532	2,101	1,528	2,128
Fifty Foot Sandstone	2,101	2,333	2,113	2,364
Gordon	2,333	2,663	2,349	2,700
Fifth Sandstone	2,663	2,775	2,685	2,814
Bayard	2,775	3,581	2,799	3,637
Speechley	3,581	3,736	3,622	3,796
Balltown	3,736	4,259	3,781	4,332
Bradford	4,259	4,529	4,317	4,607
Benson	4,529	4,849	4,592	4,935
Alexander	4,849	5,915	4,920	6,100
Sycamore	5,778	5,885	5,939	6,070
Middlesex	5,885	5,969	6,085	6,224
Burkett	5,969	5,994	6,239	6,281
Tully	5,994	6,016	6,296	6,345
Marcellus	6,016	NA	6,345	NA

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 PRODUCTION

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/10/2020
Job End Date:	2/20/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-02566-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Daniels Unit 1H
Latitude:	39.47211000
Longitude:	-80.91719000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,148
Total Base Water Volume (gal):	12,815,056
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	86.13695	
CalGel 4000	CWS	Gel Slurry					
			Listed Below				

CI-9100G	CWS	Corrosion Inhibitor											
							Listed Below						
SaniFrac 8123	CWS	Microbiocide											
							Listed Below						
Hydrochloric Acid	CWS	Clean Perforations											
							Listed Below						
Sand (Proppant)	CWS	Propping Agent											
							Listed Below						
Calbreak 5501	CWS	Breaker											
							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	13.52907							
			Illite	12173-60-3	1.00000	0.13528							
			Hydrochloric acid	7647-01-0	37.00000	0.12027							
			Biotite	1302-27-8	0.10000	0.01353							
			Apatite	64476-38-6	0.10000	0.01353							
			Ilmenite	98072-94-7	0.10000	0.01353							
			Goethite	1310-14-1	0.10000	0.01353							
			Guar gum	9000-30-0	60.00000	0.01018							

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				64742-46-7	60.00000	0.01018
				111-30-8	14.00000	0.00135
				68953-58-2	5.00000	0.00085
				7727-54-0	100.00000	0.00037
				68424-85-1	3.00000	0.00029
				64-17-5	3.00000	0.00029
				7173-51-5	3.00000	0.00029
				37251-67-5	1.50000	0.00025
				25038-72-6	20.00000	0.00007
				107-21-1	40.00000	0.00007
				34590-94-8	20.00000	0.00003
				68131-39-5	10.00000	0.00002
				72480-70-7	10.00000	0.00002
				104-55-2	10.00000	0.00002
				64-18-6	10.00000	0.00002
				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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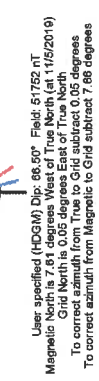
ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
Field: Tyler
Facility: Ferrell South Pad
Slot: Slot #04
Well: Daniels Unit 1H
Wellbore: Daniels Unit 1H PWB

Grid System: NAD27 / UTM Zone 17 North, US feet
 North Reference: Grid north
 Scale: True distance
 Measured depths are referenced to H&P 519 (RKB)
 H&P 519 (RKB) to Mean Sea Level: 731 feet
 Mean Sea Level to Ground level (At Slot Slot #04): -731 feet
 Coordinates are in feet referenced to Slot

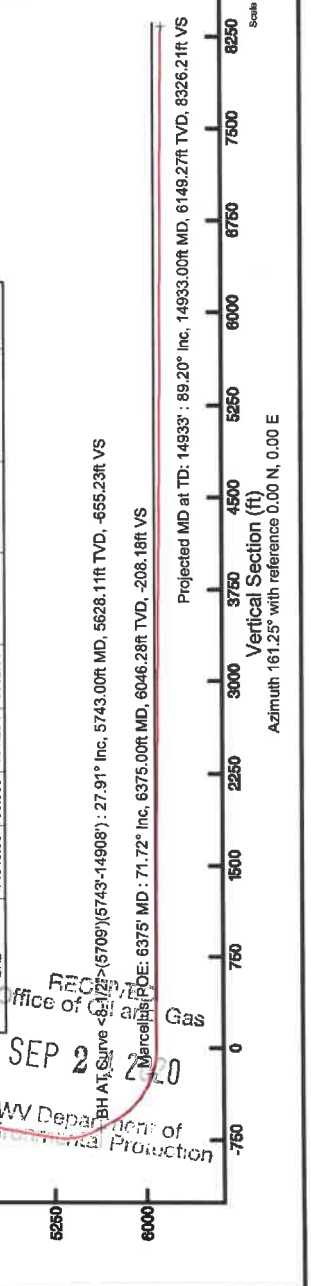
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Ferrell South Pad	1663754.631	39°28'19.590"N	80°55'01.900"W
Slot	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #04	0.00	1663754.631	80°55'01.900"W
H&P 519 (RKB) to Ground level (At Slot Slot #04)	39ft		
Mean Sea Level to Ground level (At Slot Slot #04)	-731 ft		
H&P 519 (RKB) to Mean Sea Level	781ft		



Gyrodatta MS Gyro <17-1/2">(115-300) : 0.23° Inc, 115.00ft MD, 115.00ft TVD, 0.02R VS
 Gyrodatta MS Gyro <12-1/4">(300)(397-767) : 0.91° Inc, 397.00ft MD, 396.99ft TVD, -1.27R VS
 WFT EM <8-3/4">(767)(885-2585) : 5.26° Inc, 885.00ft MD, 884.66ft TVD, -10.26R VS
 WFT EM <8-3/4">(2709-5709) : 11.23° Inc, 2709.00ft MD, 2671.81ft TVD, -295.25R VS

Slot	Well	Wellbore	Wellpath
Slot #04	Daniels Unit 1H	Daniels Unit 1H AVP3	Daniels Unit 1H AVP Prof: 149333
Slot #04	Daniels Unit 1H	Daniels Unit 1H PWB	Daniels Unit 1H PWP Rev-A-0

Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)
On	5706.00	27.390	153.910	5597.99	828.37	353.09
Tie On	5706.00	27.390	153.910	5597.99	828.37	353.09
Prof. To Bottom	5781.00	29.280	159.000	5681.37	797.04	4.27
End of 3D Arc	5928.11	25.828	154.082	5704.02	776.62	375.49
POE	6361.95	70.555	161.254	6044.00	422.36	511.56
Landing PL	6576.05	90.000	161.254	6092.00	212.34	592.84
BHL	14943.00	90.000	161.254	6092.00	-7708.66	3271.15
						0.00
						8351.23



API: 47-095-02566-0000
 BHI Job #: 110086759A
 Rig: H&P 519
 Duration: 11/07/2019-11/09/2019

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 BH AT Survey <6173-(5709)(5743-14908) : 27.91° Inc, 5743.00ft MD, 5628.11ft TVD, -655.23ft VS
 BH AT Survey <6173-(5709)(5743-14908) : 27.91° Inc, 5743.00ft MD, 5628.11ft TVD, -655.23ft VS
 Marcellus POE: 6375° MD : 71.72° Inc, 6375.00ft MD, 6046.28ft TVD, -208.18ft VS

8,689' to Bottom Hole

308' to Top Hole
TOP HOLE LATITUDE 39 - 30 - 00
BTM HOLE LATITUDE 39 - 27 - 30

Antero Resources
Well No. Daniels Unit 1H
Antero Resources
Corporation

Wellhead Layout
Not to Scale

- Daniels Unit 3H (47-095-02568)
- Daniels Unit 2H (47-095-02567)
- As-Drilled Well Daniels Unit 1H (47-095-02566)
- Galt Unit 3H (47-095-02563)
- Galt Unit 2H (47-095-02562)
- Galt Unit 1H (47-095-02561)

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2	26/6	David L. Beagle	198/261	3.900
3	26/6.1	Tammy L. Shanabarger	374/675	2.000
4	26/19.7	Michael S. &	368/813	5.760
5	26/19.8	Nancy H. Keaster	368/813	8.994
6	26/19		404/352	45.310
7	26/19.2	JB Exploration I, LLC	404/352	10.302
8	26/9.12		404/352	4.285
9	26/10		312/330	12.250
10	26/15		312/330	15.140
11	26/16	Robert L. Keller	312/330	25.000
12	26/17		312/330	5.250
13	26/19.1	Edward Beagle, et al	WB36/480	10.840
14	29/19.6	Donnie & Katrenia A. Smith	320/498	3.922
15	26/24	Joanna Payton	345/158	4.110
16	26/25		345/158	3.950
17	26/23	Gretta Westbrook	WB33/57	2.000
18	26/19.10	Jay D. Westbrook & Teresa Hill	355/456	9.360
19	26/26.1	William Alan Marich	337/629	57.223
20	26/27	William Eugene III & Sharon Ann Hartwell	353/656	1.180
21	26/28	Virginia Frazier	353/656	2.310
22	26/29		175/414	2.340
23	26/42	Charles Junior Reed	241/288	13.000
24	26/37	Scott College	309/299	60.230
25	26/36		AR44/570	41.680
26	26/35	Ronald L. Stevens, et al	AR44/570	13.610
27	29/6		AR44/570	31.500
28	29/3	Helen S. & Denny M. Reed	WB34/467	18.750
29	29/4		WB34/467	17.500
30	29/5	Ralph D. Thacker & Carlisle J. Maurice, Jr.	388/762	12.500
31	20/83.4	Thomas & Cynthia Hall	392/229	15.944
32	20/83	Larry S. & Dianna L. Helmick	WB40/335	99.413

	Bearing	Dist.
L1	S 41°01' W	2,744.5'
L2	N 56°06' W	2,289.8'
L3	N 45°49' W	1,227.8'
L4	N 89°43' E	2,252.0'

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Well No. Daniels Unit 1H Top Hole coordinates are
N: 357,216.80' Latitude: 39°28'19.58"
E: 1,599,943.00' Longitude: 80°55'01.89"
Bottom Hole coordinates are
N: 349,481.76' Latitude: 39°27'03.63"
E: 1,603,086.48' Longitude: 80°54'20.27"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,369,180.126m N: 4,366,840.330m
E: 507,137.181m E: 508,134.182m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

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, P.S. 2167



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- A. David L. Beagle, et ux
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 - C. Michael S. Kester, et ux
 - D. Kathryn T. Crow
 - E. Alice Moseley
 - F. Winifred Antalek
 - G. Edward Beagle, et al
 - H. Joanna L. Binegar
 - J. Gretta Westbrook
 - K. Jay-Bee Royally

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

FILE NO: 315-54-E-16
DRAWING NO: Daniels 1H As-Drilled
SCALE: 1" = 1200'
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 20 20
OPERATOR'S WELL NO. Daniels Unit 1H
API WELL NO
47 - 095 - 02566
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: As-Built 731.4' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
DISTRICT: Ellsworth Denver A McMullen, et ux; Edward Beagle, et al COUNTY: Tyler 46.6425; 10.84;
SURFACE OWNER: Antero Midstream, LLC Clarence W. Mutschelknaus Sr, et al; 118.63; 51.29;
ROYALTY OWNER: Larry R. Henthorn, et ux; Robert L. Keller; Winifred Antalek; The Swan Living Trust; Helen Reed, et al; ACREAGE: 203.59 166.09063; 164.91;
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled ACREAGE: 61.71875; 173.29;
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 14,933' MD 6,149' 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

TOP HOLE LONGITUDE 80 - 55 - 00
BTM HOLE LONGITUDE 80 - 52 - 30
2,534' to Bottom Hole

10,156' to Top Hole

8,689' to Bottom Hole

308' to Top Hole

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

Antero Resources
Well No. Daniels Unit 1H
Antero Resources
Corporation

Wellhead Layout
Not to Scale

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