

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

API 47-095-02563 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Ferrell Pad Field/Pool Name -----
Farm name Antero Resources Midstream LLC Well Number Galt Unit 3H
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 4369176.439m Easting 507137.224m
Landing Point of Curve Northing 4369143.60m Easting 507062.25m
Bottom Hole Northing 4366875.244m Easting 507846.428m

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

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Date permit issued 1/25/2019 Date drilling commenced 7/11/2019 Date drilling ceased 11/15/2019
Date completion activities began 2/6/2020 Date completion activities ceased 3/18/2020
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:
JCS
10/19/2020

API 47-095 - 02563 Farm name Antero Resources Midstream LLC Well number Galt Unit 3H

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"	395'	New	54#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2591'	New	36#, H-40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	14479'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6291'		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	430 sx	15.6	1.19	402	0'	8 Hrs.
Coal							
Intermediate 1	Class A	900 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) 14499' MD, 6141' TVD (BHL), 6142' (Deepest Point Drilled) Loggers TD (ft) 14499' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5201'

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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 095 - 02563 Farm name Antero Resources Midstream LLC Well number Galt Unit 3H

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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API 47- 095 - 02563 Farm name Antero Resources Midstream LLC Well number Galt Unit 3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6006' (TOP)	TVD	6346' (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 3364 mcfpd Oil 177 bpd NGL --- bpd Water 391 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
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***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

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Please insert additional pages as applicable.

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

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

API 47-095-02563 Farm Name Antero Midstream LLC Well Number Galt Unit 3H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/10/2020	14379	14334	60	Marcellus
2	2/11/2020	14295.10684	14127.641	60	Marcellus
3	2/11/2020	14091.74786	13924.2821	60	Marcellus
4	2/11/2020	13888.38889	13720.9231	60	Marcellus
5	2/11/2020	13685.02991	13517.5641	60	Marcellus
6	2/12/2020	13481.67094	13314.2051	60	Marcellus
7	2/12/2020	13278.31197	13110.8462	60	Marcellus
8	2/12/2020	13074.95299	12907.4872	60	Marcellus
9	2/12/2020	12871.59402	12704.1282	60	Marcellus
10	2/13/2020	12668.23504	12500.7692	60	Marcellus
11	2/13/2020	12464.87607	12297.4103	60	Marcellus
12	2/13/2020	12261.51709	12094.0513	60	Marcellus
13	2/13/2020	12058.15812	11890.6923	60	Marcellus
14	2/14/2020	11854.79915	11687.3333	60	Marcellus
15	2/14/2020	11651.44017	11483.9744	60	Marcellus
16	2/14/2020	11448.0812	11280.6154	60	Marcellus
17	2/15/2020	11244.72222	11077.2564	60	Marcellus
18	2/15/2020	11041.36325	10873.8974	60	Marcellus
19	2/15/2020	10838.00427	10670.5385	60	Marcellus
20	2/15/2020	10634.6453	10467.1795	60	Marcellus
21	2/16/2020	10431.28632	10263.8205	60	Marcellus
22	2/16/2020	10227.92735	10060.4615	60	Marcellus
23	2/16/2020	10024.56838	9857.10256	60	Marcellus
24	2/16/2020	9821.209402	9653.74359	60	Marcellus
25	2/16/2020	9617.850427	9450.38462	60	Marcellus
26	2/17/2020	9414.491453	9247.02564	60	Marcellus
27	2/17/2020	9211.132479	9043.66667	60	Marcellus
28	2/17/2020	9007.773504	8840.30769	60	Marcellus
29	2/17/2020	8804.41453	8636.94872	60	Marcellus
30	2/17/2020	8601.055556	8433.58974	60	Marcellus
31	2/18/2020	8397.696581	8230.23077	60	Marcellus
32	2/18/2020	8194.337607	8026.87179	60	Marcellus
33	2/18/2020	7990.978632	7823.51282	60	Marcellus
34	2/18/2020	7787.619658	7620.15385	60	Marcellus
35	2/18/2020	7584.260684	7416.79487	60	Marcellus
36	2/19/2020	7380.901709	7213.4359	60	Marcellus
37	2/19/2020	7177.542735	7010.07692	60	Marcellus
38	2/19/2020	6974.183761	6806.71795	60	Marcellus
39	2/20/2020	6770.824786	6603.35897	60	Marcellus
40	2/20/2020	6567.465812	6400	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	79.3	8134	8873	4514	183080	5211.136	N/A
2	2/11/2020	87.7	8197	5407	4344	400200	7073.746	N/A
3	2/11/2020	87	7961	5220	4127	409060	7243.97	N/A
4	2/11/2020	86.5	8296	5658	3626	396540	7090.37	N/A
5	2/11/2020	85	8136	5285	3884	396720	7136.22	N/A
6	2/12/2020	85.2	8010	5146	3738	398660	7062.53	N/A
7	2/12/2020	84	8019	5613	3545	401760	7069.71	N/A
8	2/12/2020	84.8	8074	5433	4085	403400	7018.41	N/A
9	2/12/2020	84.8	8001	5868	3940	407140	7083.68	N/A
10	2/13/2020	85.1	8077	5848	3893	406920	7060.51	N/A
11	2/13/2020	85.6	8180	5524	4069	407260	7159.81	N/A
12	2/13/2020	82.8	7885	5256	3480	407740	7060.31	N/A
13	2/13/2020	87.3	7874	5167	3683	405760	6992.13	N/A
14	2/14/2020	76.5	7481	5712	4180	347580	7942.56	N/A
15	2/14/2020	85.2	7582	5292	3692	420840	7336.08	N/A
16	2/14/2020	83.4	7968	5120	3566	402980	7086.55	N/A
17	2/15/2020	86.3	7911	5698	3830	402200	6973.55	N/A
18	2/15/2020	83.8	7727	5524	3546	403690	6966.02	N/A
19	2/15/2020	83.7	7566	5237	3848	404420	7021.5	N/A
20	2/15/2020	81.9	7734	5653	3901	413160	7329.94	N/A
21	2/16/2020	86.7	8033	5309	3911	406760	6956.8	N/A
22	2/16/2020	88.4	7773	5005	3996	404560	6898.24	N/A
23	2/16/2020	84.7	7232	5353	3697	412060	6936.04	N/A
24	2/16/2020	85.3	7364	5309	3485	413480	6957.57	N/A
25	2/16/2020	86.5	7507	5518	3665	420600	7010.34	N/A
26	2/17/2020	87.3	7671	5349	3735	404280	6936.9	N/A
27	2/17/2020	85.2	7324	5428	3476	404500	6905.89	N/A
28	2/17/2020	85.4	7036	5371	3627	405980	6862.46	N/A
29	2/17/2020	85.8	7199	5452	3534	416180	6916.42	N/A
30	2/17/2020	85	7207	5418	3529	416580	6916.6	N/A
31	2/18/2020	86.1	7191	5268	3527	404060	6829.09	N/A
32	2/18/2020	74.5	7346	5793	4325	406480	9973.81	N/A
33	2/18/2020	85.5	6989	5267	4235	403280	6881.43	N/A
34	2/18/2020	85.2	6827	5212	4187	403880	6809.21	N/A
35	2/18/2020	85	7057	5252	3919	399140	6779.14	N/A
36	2/19/2020	87.2	7209	5612	3957	398680	6763.56	N/A
37	2/19/2020	87.6	7142	5436	4187	402800	6645.36	N/A
38	2/19/2020	86.5	6707	5834	4306	400820	7208.95	N/A
39	2/20/2020	83.9	6728	5623	3608	403200	6894.3	N/A
40	2/20/2020	84.5	6721	6522	3710	405200	6683	N/A
	AVG=	84.8	7,577	5,547	3,853	15,951,630	281,684	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	1,521	1,515	N/A
Big Lime	1,536	2,095	1,521	2,096
Fifty Foot Sandstone	2,095	2,335	2,081	2,335
Gordon	2,335	2,634	2,320	2,635
Fifth Sandstone	2,634	2,736	2,620	2,737
Bayard	2,736	3,564	2,722	3,580
Speechley	3,564	3,731	3,565	3,757
Balltown	3,731	4,201	3,742	4,256
Bradford	4,201	4,518	4,241	4,593
Benson	4,518	4,883	4,578	4,981
Alexander	4,883	5,903	4,966	6,096
Sycamore	5,771	5,873	5,938	6,066
Middlesex	5,873	5,963	6,081	6,231
Burkett	5,963	5,984	6,246	6,282
Tully	5,984	6,006	6,297	6,348
Marcellus	6,006	NA	6,348	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:	2/10/2020
Job End Date:	2/20/2020
State:	West Virginia
County:	Tyler
API Number:	47-095-025663-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Galt Unit 3H
Latitude:	39.47207000
Longitude:	-80.91719000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,140
Total Base Water Volume (gal):	12,219,272
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	86.18820	
SaniFrac 8123	CWS	Microbiocide					
				Listed Below			

Sand (Proppant)	CWS	Propping Agent					
					Listed Below		
Calbreak 5501	CWS	Breaker					
					Listed Below		
CalGel 4000	CWS	Gel Slurry					
					Listed Below		
CI-9100G	CWS	Corrosion Inhibitor					
					Listed Below		
Hydrochloric Acid	CWS	Clean Perforations					
					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	13.48369	
			Illite	12173-60-3	1.00000	0.13483	
			Hydrochloric acid	7647-01-0	37.00000	0.11499	
			Biotite	1302-27-8	0.10000	0.01348	
			Apatite	64476-38-6	0.10000	0.01348	
			Ilmenite	98072-94-7	0.10000	0.01348	
			Goethite	1310-14-1	0.10000	0.01348	
			Guar gum	9000-30-0	60.00000	0.01022	

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					64742-46-7	60.00000	0.01022	
					111-30-8	14.00000	0.00135	
					68953-58-2	5.00000	0.00085	
					7727-54-0	100.00000	0.00037	
					64-17-5	3.00000	0.00029	
					7173-51-5	3.00000	0.00029	
					68424-85-1	3.00000	0.00029	
					37251-67-5	1.50000	0.00026	
					25038-72-6	20.00000	0.00007	
					107-21-1	40.00000	0.00006	
					34590-94-8	20.00000	0.00003	
					72480-70-7	10.00000	0.00002	
					64-18-6	10.00000	0.00002	
					104-55-2	10.00000	0.00002	
					68131-39-5	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 #03
Well: Galt Unit 3H
Wellbore: Galt Unit 3H PWB



Grid System: MD27 / UTM Zone 17 North, US feet
North Reference: Grid north
Scale: True distance
Coordinates are in feet referenced to Slot
Depths are in feet
Created by: cadman on 2/15/16, Database: WA, MFL, EastmanUS Data

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Ferrell South Pad	1685754.631	14333840.899	39°28'19.5900"N	80°55'1.9000"W
Slot	Local E (ft)	Grid East (US ft)	Latitude	Longitude
Slot #03	-15.18	1685755.429	39°28'19.4400"N	80°55'1.8900"W
H&P 516 (RK3) to Ground level (At Slot: Slot #03)			30ft	
Mean Sea Level to Ground level (At Slot: Slot #03)			-731ft	
H&P 516 (RK3) to Mean Sea Level			716ft	

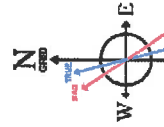
Well	Wellbore	Wellpath
Slot #03	Galt Unit 3H	Galt Unit 3H AWP
Slot #03	Galt Unit 3H PWB	Galt Unit 3H PWP Rev-A.0

Design Comment	MD (ft)	Inc. (")	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7/100ft)	VS (ft)
Tile On	5539.00	15.210	205.090	5419.96	599.06	-412.38	9.20	-699.86
Proj. To Bottom	5611.00	15.430	180.400	5489.47	580.91	-416.45	9.00	-683.96
End of 3D Arc	5672.78	14.161	100.888	5549.25	565.54	-414.04	8.28	-668.65
POE	6358.42	70.924	161.236	6034.00	144.50	-270.41	8.28	-223.79
End of Build	6588.82	90.000	161.236	6072.00	-69.64	-197.66	8.28	2.37
End of Termination	14510.00	90.000	161.236	-7569.82	2350.38	0.00	0.00	7923.56

Gyrodota MS Gyro <17-1/2">(115-301) : 1.06" Inc, 115.00ft MD, 115.00ft TVD, 0.76ft VS
 Gyrodota MS Gyro <12-1/4">(301)(390-670) : 0.64" Inc, 390.00ft MD, 389.98ft TVD, 2.30ft VS
 WFT EM <12-1/4">(670)(791-2508) : 0.18" Inc, 791.00ft MD, 790.96ft TVD, 1.28ft VS

Design Comment	MD (ft)	Inc. (")	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7/100ft)	VS (ft)
Tile On	5539.00	15.210	205.090	5419.96	599.06	-412.38	9.20	-699.86
Proj. To Bottom	5611.00	15.430	180.400	5489.47	580.91	-416.45	9.00	-683.96
End of 3D Arc	5672.78	14.161	100.888	5549.25	565.54	-414.04	8.28	-668.65
POE	6358.42	70.924	161.236	6034.00	144.50	-270.41	8.28	-223.79
End of Build	6588.82	90.000	161.236	6072.00	-69.64	-197.66	8.28	2.37
End of Termination	14510.00	90.000	161.236	-7569.82	2350.38	0.00	0.00	7923.56

WFT EM <8-3/4">(2508)(2633-5539) : 1.15" Inc, 2633.00ft MD, 2632.81ft TVD, -0.37ft VS

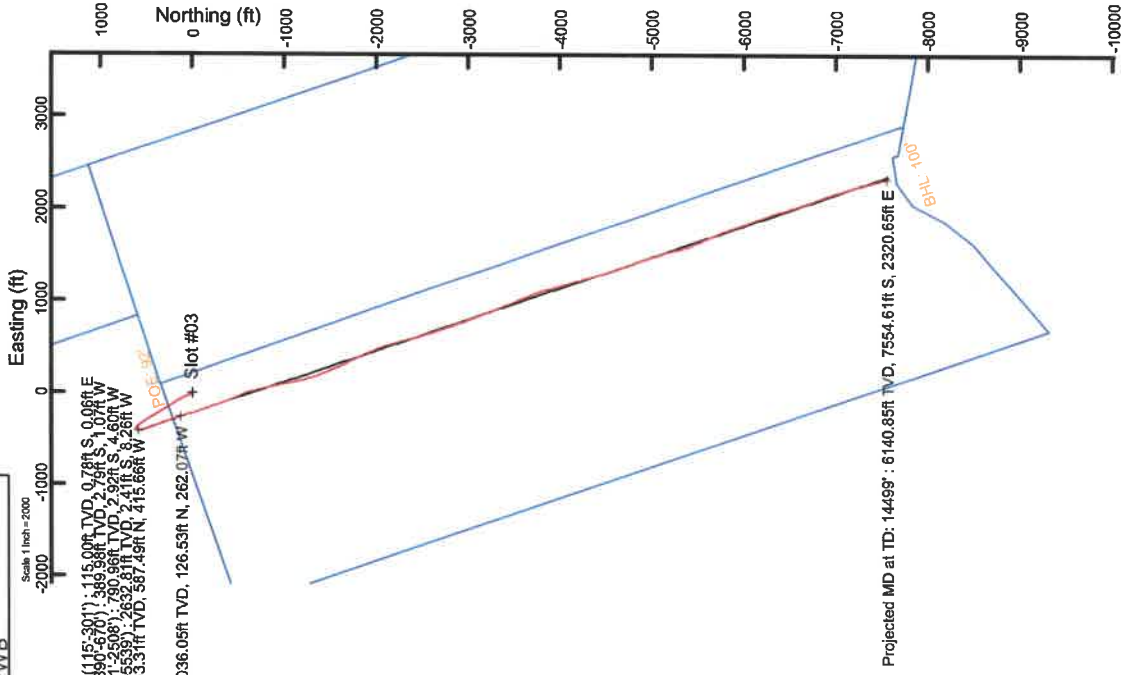


User specified (HCGM) Dip: 08.50° Field: 5750 nT
 Magnetic North is 0.05 degrees East of True North
 Grid North is 0.05 degrees East of True North
 To correct azimuth from True to Grid subtract 0.05 degrees
 To correct azimuth from Magnetic to Grid subtract 7.86 degrees

RECEIVED
 Office of Oil and Gas
 SEP 24 2020
 WV Department of Environmental Protection

BH AT Curve <8 1/2"> (5539)(5584-14474) : 16.15" Inc, 5584.00ft MD, 5463.31ft TVD, -689.96ft VS
 Marcellus POE: 6378' MD : 72.17" Inc, 6378.00ft MD, 6036.05ft TVD, -204.06ft VS

Projected MD at TD: 14499' : 89.63" Inc, 14499.00ft MD, 6140.85ft TVD, 7839.59ft VS
 Vertical Section (ft)
 Azimuth 161.24° with reference 0.00 N, 0.00 E



API: 47-095-02563-0000
 BHI Job #: 110086771A
 Rig: H&P 519
 Duration: 11/11/2019-11/13/2019

9,632' to Bottom Hole

309' to Top Hole

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

Antero Resources
Well No. Galt Unit 3H
As-Drilled
Antero Resources Corporation

Wellhead Layout
Not to Scale

- Daniels Unit 3H (47-095-02568)
- Daniels Unit 2H (47-095-02567)
- Daniels Unit 1H (47-095-02566)
- Proposed Galt Unit 3H (47-095-02563)**
- Galt Unit 2H (47-095-02562)
- Galt Unit 1H (47-095-02561)

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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.

ID	T/M/Par	Owner	Bk/Pg	Acres
1	26/4	Robert L. Keller	312/330	16.200
2	26/19.2	JB Exploration I, LLC	404/352	10.302
3	26/19		404/352	45.310
4	26/9.1		393/474	1.805
5	26/9.2	Alicia Moseley	393/474	1.908
6	26/9.3		393/474	1.915
7	26/9.4		393/474	1.871
8	26/9.5		393/474	1.917
9	26/9.6		327/789	1.885
10	26/9.9	Kathryn Clow	326/307	1.599
11	26/9.10		323/504	1.200
12	26/9.7		404/352	2.048
13	26/9.8		404/352	1.751
14	26/9.11	JB Exploration I, LLC	404/352	1.569
15	26/9		404/352	28.021
16	26/9.12		404/352	4.285
17	26/10		312/330	12.25
18	26/15	Robert L. Keller	312/330	15.14
19	26/17		312/330	5.25
20	26/19.1	Edward Beagle, et al	WB36/480	10.840
21	26/26.3		351/550	10.106
22	26/26.2	Charles & Donna Mead	347/516	13.262
23	26/29	Virginia Frazier	175/414	2.340
24	26/28	William Eugene III & Sharon Ann Hartwell	269/1	13.430
25	26/27		WB14/50	3.100
26	26/33	Denver A. & Carolyn F. McMullen	176/548	0.750
27	29/1	Virgil R. & Janice E. McMullen	230/799	1.000
28	26/35	Ronald L. Stevens, et al	AR44/570	13.610
29	29/3	Helen S. & Danny M. Reed	WB34/467	18.750
30	6/7	Patsy Jean & Baker Donald Fletcher	110/551	69.000
31	29/15	Carl & Charles L. Fairbee	344/317	41.000

	Bearing	Dist.
L1	S 40°49' W	2,755.7'
L2	N 56°24' W	2,281.8'
L3	N 46°19' W	1,217.9'
L4	S 89°56' E	2,251.9'

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Well No. Galt Unit 3H Top Hole coordinates are
N: 357,202.40' Latitude: 39°28'19.44"
E: 1,599,942.90' Longitude: 80°55'01.89"
Bottom Hole coordinates are
N: 349,612.12' Latitude: 39°27'04.77"
E: 1,602,144.09' Longitude: 80°54'32.30"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,369,176.439m N: 4,366,875.244m
E: 507,137.224m E: 507,846.428m
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
Bradley D. Miller, P.S. 2167



- Leases**
- A. Kathryn T. Clow Lease
 - B. Alice Moseley Lease
 - C. Winifred Antalek Lease
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 - F. Virgil R. McMullen, et ux

- 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: 13-54-E-17
DRAWING NO: Galt 3H As-Drilled
SCALE: 1" = 1200'
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: May 8 20 20
OPERATOR'S WELL NO. Galt Unit 3H
API WELL NO
47 - 095 - 02563
STATE COUNTY PERMIT

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

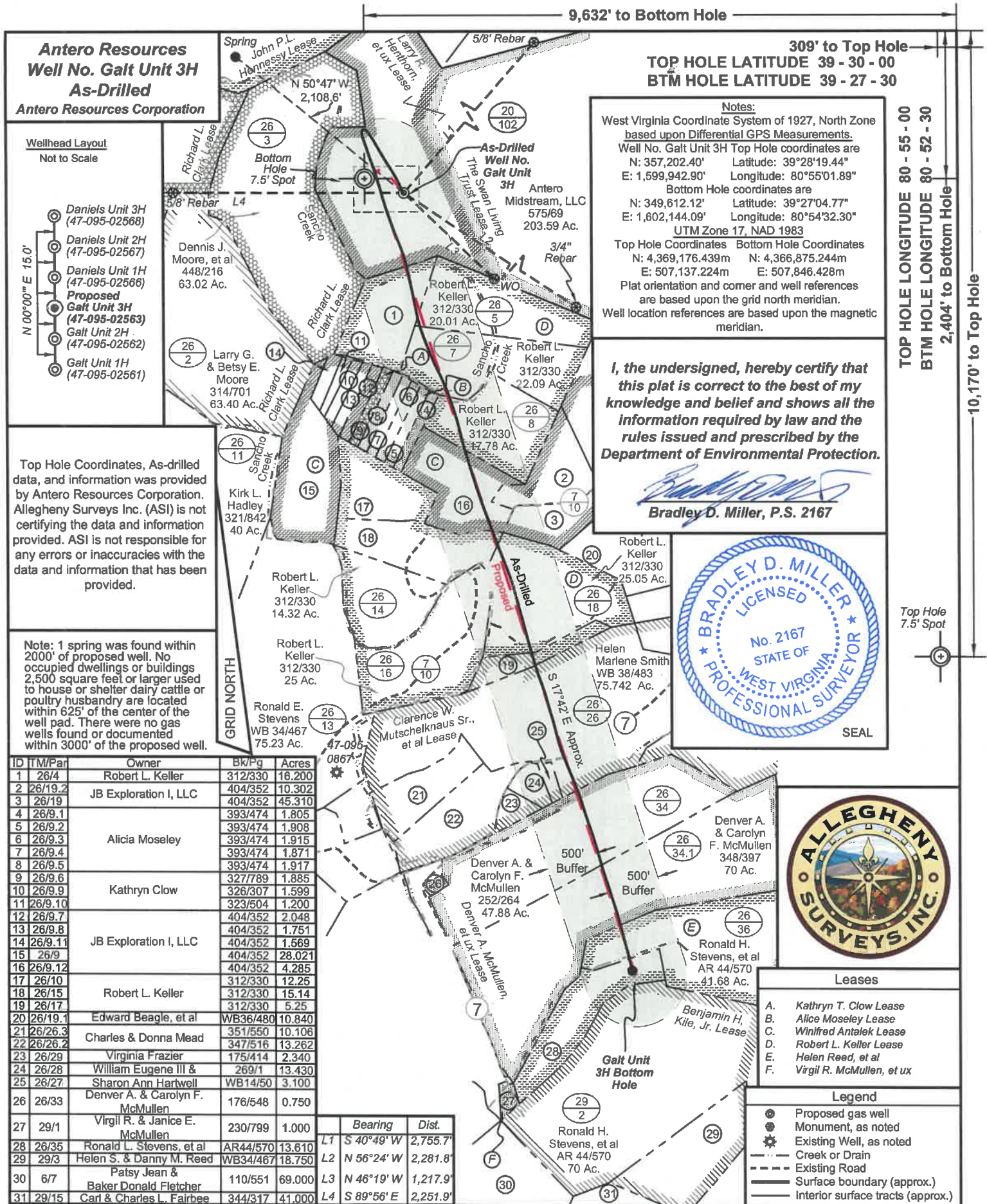
LOCATION: ELEVATION: As-Built 731.4' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Middlebourne
DISTRICT: Ellsworth COUNTY: Tyler

SURFACE OWNER: Antero Midstream, LLC Helen Reed, et al; Denver A McMullen, et ux; Clarence W. Mutschelknaus, Sr., et al; ACREAGE: 203.59 51.29; 164.91; 118.63; 46.6425;
ROYALTY OWNER: Robert L. Keller; Winifred Antalek; Larry R. Henthorn, et ux; LEASE NO: ACREAGE: 173.29; 61.71875;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) MOD-BHL
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,141' TVD 14,499' 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 - 55 - 00
BTM HOLE LONGITUDE 80 - 52 - 30
2,404' to Bottom Hole
10,170' to Top Hole



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